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08 Aug. 2017	Steps for clearing the proxies of a workspace added.	50	4.0.1
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06 Dec. 2017	Added support for Windows Server 2016 on the Tiger Spaces server.	9	4.0.3
06 Dec. 2017	Added support for Tiger Spaces clients running macOS High Sierra 64-bit and Windows Server 2016.	10	4.0.3
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19 Feb. 2018	Added support for installation of Tiger Spaces on a Tiger Client computer.	8	4.1
19 Feb. 2018	Manage Tiger Bridge replication and tiering for workspaces topic added.	50	4.1
19 Feb. 2018	Monitor connected client computers functionality added.	63	4.1
19 Feb. 2018	Downloading the activity log as a csv file functionality added.	68	4.1
19 Feb. 2018	Downloading the list of workspace as a csv file functionality added.	69	4.1
19 Feb. 2018	Tiger Spaces server auto-discovery option added on client computers.	72	4.1
19 Feb. 2018	Option to search for miscellaneous files only or tags only added.	85	4.1
19 Feb. 2018	Manage workspace comments topic added.	98	4.1
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20 Feb. 2018	Added support for Microsoft SQL Server 2014 on the database server.	10	4.1
20 July 2018	Database server requirements added.	9	4.2
20 July 2018	Accessing the web interface through secure http instead of through port 8480.	13	4.2
20 July 2018	Initial Setup topic added.	13	4.2
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20 July 2018	Specify New Workspace Defaults topic added.	45	4.2
20 July 2018	Monitor High-Availability Cluster Synchronization topic added.	77	4.2
31 July 2018	Added support for Microsoft SQL Server 2017.	10	4.2
24 Aug. 2018	TCP port 443 must not be blocked by a firewall on the Tiger Spaces server.	10	4.2
18 Jan. 2019	Resynchronizing Tiger Spaces with Spaces MAM steps added.	132	4.2
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29 Mar. 2019	Added support for macOS Mojave 64-bit and Windows Server 2019 on Tiger Spaces client computers.	10	4.3
29 Mar. 2019	Added Tiger Bridge statistics field.	51	4.3
29 Mar. 2019	Added Move to archive button.	60	4.3
29 Mar. 2019	View displaying just the workspaces mounted on your computer is added to the web interface.	80	4.3
29 Mar. 2019	Removed option for canceling Tiger Bridge jobs.		4.3
09 Jul. 2019	Monitor Tiger Bridge jobs section added.	66	4.4
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07 Jan. 2020	Enabling and disabling the automounting of workspaces.	45	4.5
07 Jan. 2020	Find as you type search functionality added.	85	4.5
10 Jan. 2020	Added description of proxy media video player controls.	83	4.5
10 Jan. 2020	Added steps for starring a workspace.	104	4.5
22 Jan. 2020	Hiding/unhiding columns of the workspaces list.	78	4.5
29 Jan. 2021	Added support for Intel-based macOS Big Sur on Tiger Spaces Client.	10	4.6
29 Jan. 2021	Activate Tiger Spaces with a SaaS license steps added.	25, 31	4.6
29 Jan. 2021	Added “Auto” option creating a new workspace on the volume/ share with most free space.	45, 89, 92	4.6
29 Jan. 2021	Enabling/disabling Tiger Bridge on a volume/network share steps added.	51	4.6
29 Jan. 2021	Configure Tiger Bridge replication policy steps added.	57	4.6
29 Jan. 2021	Excluding a workspace from Tiger Bridge automatic replication steps added.	59	4.6

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29 Jan. 2021	Manually rehydrating a file from the archive steps added.	60	4.6
29 Jan. 2021	Displaying workspaces list in grid view.	79	4.6
18 Nov. 2021	Digital certificate requirements added.	11	4.6
09 Feb. 2022	Added support for Intel-based macOS Monterey on Tiger Spaces Client.	10	4.6
03 Nov. 2022	Added support for Windows® 11/Server 2022 on the Tiger Spaces server and Windows clients.	10	4.7
03 Nov. 2022	Added support for Apple Silicon computers.	10	4.7
03 Nov. 2022	TCP ports 6601, 8480, 9125 must not be blocked by a firewall or in use by another application the Tiger Spaces computer.	10	4.7
03 Nov. 2022	UDP port 9120 must not be blocked by a firewall or in use by another application the Tiger Spaces computer.	10	4.7
03 Nov. 2022	TCP port 8082 must not be blocked by the firewall or in use by another application on a macOS client computer.	10	4.7
03 Nov. 2022	Dropped support for Mac OS X Mavericks/Mavericks Server (64-bit) and Mac OS X Yosemite/Yosemite Server (64-bit).		4.7
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19 Dec. 2022	Added support for Microsoft SQL Server 2019 on the database server.	9	4.7
19 Dec. 2022	Add in MAM functionality added when creating or importing workspaces.	101, 103, 106	4.7
20 Dec. 2022	Added support for macOS Ventura (64-bit Intel or ARM) on Tiger Spaces client.	10	4.7
20 Dec. 2022	Running Executable Files Stored in a Workspace on a Network Share known issue added.	138	4.7
30 Mar. 2023	Digital certificate requirements updated.	11	4.7
24 Apr. 2023	Dropped support for 32-bit Microsoft Windows on Tiger Spaces Clients.		4.7.1
24 Apr. 2023	No Support for Other Than Microsoft ODBC Driver 13 for SQL Server topic added to the Known Issues chapter.	159	4.7.1
25 July 2023	Allow the User Management of Kernel Extensions on Apple Silicon macOS topic added to the Best Practices chapter.	118	4.7.1
25 July 2023	Deploy the SSL Certificate on Network Computers topic added.	129	4.7.1

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20 Nov. 2024	Running WMIC on Windows Tiger Spaces clients requirement added.	12	4.7.4

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1

Getting Started with Tiger Spaces

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Introduction to Tiger Spaces

Congratulations on purchasing Tiger Spaces, Tiger Technology's complete workflow management solution for shared storage environments. Tiger Spaces turns designated volumes and/or network shares into a shared workspaces depot. Windows and macOS computers on the same network, which run the Tiger Spaces client driver can access the depot through Tiger Spaces's web interface to create new workspaces and mount their own or other users' workspaces. Each workspace is mounted as a separate local drive on the client computer, although it is stored on one of the volumes/network shares in the depot. A user can mount any number of workspaces exclusively, with Read and Write permissions, or for previewing only. Depending on the type of the respective workspace, it may be mounted for editing by just one user at a time or by multiple users simultaneously (Multi-user write and Avid workspaces).



As long as a client computer sees the volumes/shares comprising the depot, users can create and work with workspaces stored on them. Metadata requests for access to the depot are directly sent to the Tiger Spaces server. Users do not have to authenticate themselves to access the respective file system but access it with the credentials specified on the Tiger Spaces server. Thus, if Tiger Spaces is deployed without security restrictions, access to a given workspace depends solely on whether it is currently available or in use by another user. For the purposes of your workflow, you can utilize workspace permissions. When Tiger Spaces is deployed in an Active Directory domain environment, the permissions are specified for domain users and groups of users. When Tiger Spaces is deployed in a workgroup environment, you can use locally created Tiger Spaces users and groups.

Tiger Spaces further enhances your workflow with workspace quotas, automatic parsing of data and generation of proxy media, browsing workspaces without mounting them, setting workspaces as templates, and creating workspaces based on templates.

Computers on the same network that do not have the client driver installed, cannot work with the workspaces in the depot, although they might be seeing the underlying storage comprising the depot. However, users on such computers can log in to the Tiger Spaces' web interface and preview data in any workspace, which is accessible to their account.

You can administrate and work with Tiger Spaces in its web interface.

Note: Changes to the underlying storage comprising the depot, take up to a minute to get detected in the web interface of Tiger Spaces.

Concepts Used Throughout the Guide

Workspaces depot — the shared storage backbone comprised of Tiger Store-managed volumes and/or SMB/NFS network shares, on which client computers create workspaces. The depot can consist of as little as just one volume/network share or multiple volumes and/or shares. Shares part of the depot can be exported by the same or different NAS appliance on the same network. The depot remains accessible to client computers even if just one of the underlying file systems, on which Tiger Spaces support is enabled, is currently available, displaying just the workspaces stored on that file system. Similarly, client computers that do not see one or more of the file systems comprising the depot, can still create and mount workspaces on the remaining volumes/shares in the depot. The workspaces depot and data within it remain inaccessible to computers without the Tiger Spaces client driver although they might see the file systems included in the depot.

Workspace — a folder in the Tiger Spaces' depot, which mounts as a local drive on client computers. A workspace has a name, description, and tags, which can be edited and facilitate the faster browsing of the depot's contents. You can also star a workspace using one or more of the three available star colors and sort the list of workspaces by star color. Tiger Spaces scans each workspace after it has been dismounted and parses data in it to generate proxy media and allow searching by contents' metadata. On Windows client computers you can specify the preferred mount point of a workspace. Unless security is disabled, access to each workspace is subject to authentication based on Active Directory or internal Tiger Spaces user accounts. When security is disabled, access to a workspace depends only on the workspace's state - available or in use on another computer.

Tiger Spaces server — the computer running Tiger Spaces server installation, which virtualizes the underlying volumes and network shares, presenting them as one depot to client computers. The Tiger Spaces server takes over processing metadata requests for access to workspaces stored in the depot, controlling file operations and user authentication. It also allows mounting each workspace in the depot as a separate local drive. The Tiger Spaces server optimizes the workflow by automatically parsing each workspace's data and generating proxy media.

Note: *In case you want to deploy Tiger Spaces with high availability, you need to run the server installation on two computers, playing the role of a high availability cluster - one active Tiger Spaces server and one standby Tiger Spaces server. For more information about configuring Tiger Spaces with high availability, refer to "Configure the High-Availability Cluster IP Address" on page 36.*

Database server — a computer with Microsoft SQL Server installed, which stores and manages the Tiger Spaces database, containing information about all workspaces and data in them. This can be the Tiger Spaces server computer itself or another computer. Choosing another computer as a database server allows you to deploy Tiger Spaces with high availability. This way, if the active Tiger

Getting Started with Tiger Spaces

Spaces server node fails, the standby node automatically connects to the database server and takes over processing requests for access to the workspaces depot. Assigning a separate database server is useful even without high availability activated, as it allows you to resume work within your Tiger Spaces network as soon as you install and activate Tiger Spaces server on a new computer.

Tiger Spaces web interface — the web interface where you can create and mount your own or other users' workspaces. Users with administrative accounts can also perform the initial Tiger Spaces setup and manage product settings, and workspaces, and monitor activity in the web interface.

Storage Requirements

Your Tiger Spaces depot can consist of:

- Tiger Store-managed volumes

Note: *You can use Tiger Store-managed volumes as part of your depot, even if Tiger Spaces is installed on a Tiger Client computer as long as it has mounted the volumes with Read & Write permissions.*

- existing or newly created SMB and NFS shares on the same network

Currently, Tiger Spaces is certified for work with the following network shares:

protocol:	Windows	CentOS / Ubuntu Linux	Qumulo Core	Isilon OneFS
SMB	✓	✓ *	✓	✓
NFS	✓	✓	✓	-

* Using Samba 3 or Samba 4 protocol.

Volumes managed by a Tiger Store metadata controller are immediately detected in the Tiger Spaces web interface and you can enable Tiger Spaces support on any one of them, as long as it is shared with Tiger Clients. Volumes managed by a Tiger Store metadata controller are accessible through Tiger Spaces with the permissions of each Tiger Client computer.

Network Shares Requirements

For the purposes of its workflow, Tiger Spaces has the following requirements for the network shares, which can comprise the shared workspaces depot:

- Each share should have a “psp_” prefix in its name. If allowed, add the “psp_” prefix in front of the share name after it has been exported. If renaming a share once it has been created is not possible, you should rename the volume/folder itself, adding the “psp_” prefix, and then export the

volume/folder as a share anew. Thus, if a share that you want to use is named for example “Projects”, you should rename it (or the folder) to “psp_Projects”.

Note: *The prefix is automatically hidden in the Tiger Spaces interface to allow you to more easily discern between shares on which to enable Tiger Spaces support.*

- Tiger Spaces uses a dedicated account (Active Directory domain or local account on the NAS appliance), which has Full Control (on Windows) or Read & Write permissions (on Linux) over each share, which will be made part of the workspaces depot. This account should be the only one, with permissions to read and write on the share, thus preventing other users from accessing the share. The dedicated account must also have Full Control (on Windows) or Read & Write permissions (on Linux) over the share file system (the folder or the whole volume exported as a share). You must use one and the same dedicated account for each share exported by the same NAS appliance.

Installing and Uninstalling Tiger Spaces

Tiger Spaces can be installed on a Tiger appliance or on a computer, meeting the minimum system requirements (see “Tiger Spaces Server System Requirements” on page 9). In case your Tiger appliance does not have Tiger Spaces installed, you can upload the new installation as a firmware update. For more information, refer to the administration guide of your Tiger appliance.

To be able to work with workspaces, you must also install the Tiger Spaces client driver on each client computer.

Tiger Spaces Server System Requirements

You can run the server installation of Tiger Spaces on a computer that meets the following minimum system requirements:

- PC with 2.5-GHz 64-bit (x64) processor.
- 8GB of physical RAM at least.
- 500MB of available hard disk space for installation.
- 64-bit Microsoft Windows® 7 SP 1/Server 2008 R2 SP1/Windows® 8/Server 2012/Server 2012 R2/Windows® 10/Server 2016/Server 2019, Windows® 11/Server 2022.

Important: *To be able to benefit from the workspace quota feature, the computer must run a server OS - Microsoft Server 2012/Server 2012 R2/Server 2016/Server 2019/Server 2022.*

- Microsoft ODBC Driver 13 for SQL Server.

Note: *Currently, no other ODBC Driver 13 for SQL Server is supported. You can download the driver from Microsoft's website for free.*

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- (optional, for high availability only) Tiger Store software is installed and set up for high availability on both server nodes.
- The following TCP or UDP ports must not be blocked by the computer's firewall or in use by another application:
 - TCP port 85
 - TCP port 443
 - TCP port 6601
 - TCP port 8080
 - TCP port 8081
 - TCP port 8480
 - UDP port 9120
 - TCP port 9125
- The GlobalSign certification authority's currently used root certificate must be installed on the computer and its "Code Signing" purpose must not be disabled. For more information, refer to "Digital Certificate Requirements" on page 12.

High-Availability Requirements

To deploy Tiger Spaces with high availability, you must install it on two server nodes, both running Tiger Store software and set up for high availability.

Database Server Requirements

The computer on which the Tiger Spaces database will be stored and managed must meet the following minimum system requirements:

- Microsoft SQL Server 2014 (if your database server runs on Windows 7/Windows Server 2008 R2), SQL Server 2016/SQL Server 2017 (if your database server runs on Windows® 8/10/Server 2012/Server 2012 R2/Server 2016/Server 2019), or SQL Server 2019 (if your database server runs on Windows® 11/Server 2022).

Note: Refer to the Microsoft documentation for hardware and software requirements for installing SQL Server.

- Microsoft SQL Server is set up for work with Tiger Spaces:
 - The server authentication is set up to use SQL Server and Windows Authentication mode.
 - There is an SQL Server user with sysadmin role, which uses SQL Server authentication, has permissions to connect to the database engine, and is set with enabled Login.

- (for remote database server only) SQL Server is configured for remote connections.

Note: For details about configuring SQL Server for work with Tiger Spaces, refer to the documentation of your SQL Server. For sample steps, refer to “Configure SQL Server for Work with Tiger Spaces” on page 136.

Note: Tiger Technology provides a download of Microsoft SQL Server 2014/2016/2019 Express together with an automated script that configures it for work with Tiger Spaces. For more information, refer to the steps for installing Tiger Spaces on the server computer.

- network connection to the Tiger Spaces server computer, in case the database server is another computer.

Tiger Spaces Client System Requirements

You can install the Tiger Spaces client driver on a computer meeting the following minimum system requirements:

macOS:

- Apple Mac computer with 2.0 GHz CPU.
- Mac OS X Yosemite/Yosemite Server (64-bit), Mac OS X El Capitan (64-bit), macOS Sierra (64-bit), macOS High Sierra (64-bit), macOS Mojave (64-bit), macOS Catalina (64-bit), macOS Big Sur (64-bit Intel and ARM), macOS Monterey (64-bit Intel and ARM), macOS Ventura (64-bit Intel and ARM), macOS Sonoma (64-bit Intel and ARM).

Note: To be able to install and run the Tiger Spaces Client software on an ARM-based macOS, you must first allow the user management of kernel extensions, following the steps in “Allow the User Management of Kernel Extensions on Apple Silicon macOS” on page 136.

- 4GB of physical RAM at least.
- 150 MB of available hard disk space for Tiger Spaces client software installation.
- 4 Gb/8 Gb/16 Gb FC, 10 GbE, and/or 1 GbE adapter for connection to the underlying storage.
- Network LAN connection (1 Gb at least) for public communication.
- The following TCP or UDP ports must not be blocked by a firewall or used by another application:
 - TCP port 8082
 - UDP port 9120
 - TCP port 9128
- Rosetta 2 installed
- Tiger Client driver installed, in case you are using Tiger Spaces in conjunction with Tiger Store.

Windows:

- PC with 2.0 GHz processor.
- 64-bit Microsoft Windows® 7/Server 2008 R2, Windows® 8/Server 2012/Server 2012 R2, Windows® 10/Server 2016/Server 2019, Windows® 11/Server 2022.

Important: *Microsoft Windows® 7/Server 2008 R2 computers must run at least Service Pack 1 and have the KB3033929 security update installed.*

- WMI command-line (WMIC) utility should be running on the computer.

Note: *As part of the deprecation of WMIC, it is disabled by default on Windows 11. Refer to this knowledge base article for steps on enabling it:*
https://kb.tiger-technology.com/wmic_windows_11

- 4GB of physical RAM at least.
- 150 MB of available hard disk space for Tiger Spaces client software installation.
- 4 Gb/8 Gb/16 Gb FC, 10 GbE, and/or 1 GbE adapter for connection to the underlying storage.
- Network LAN connection (1 Gb at least) for public communication.
- The following TCP or UDP ports must not be blocked by a firewall or in use by another application:
 - UDP port 9120
 - TCP port 9128
- The GlobalSign certification authority's currently used root certificate must be installed on the computer and its "Code Signing" purpose must not be disabled. For more information, refer to "Digital Certificate Requirements" on page 12.
- Tiger Client driver installed, in case you are using Tiger Spaces in conjunction with Tiger Store.

Digital Certificate Requirements

Both the Tiger Spaces server software and the Windows Tiger Spaces client driver use a digital certificate issued by the GlobalSign certification authority. For the digital certificate to be verified upon installing the software, the following certificates must be installed in the Trusted Root Certification Authorities of the Certificate Manager on the computer and their "Code Signing" purpose must not be disabled:

- R3 GlobalSign Root Certificate from GlobalSign
- R6 GlobalSign Root Certificate from GlobalSign
- DigiCert Assured ID Root CA from DigiCert

On computers operating in less restrictive environments, this is done automatically during the installation of the software. If the computer, on which you want to install Tiger Spaces or the Windows Tiger Spaces client driver operates in a more restrictive domain environment or is not connected to the Internet, you must manually download the above certificates and install them yourself, before installing Tiger Spaces/Tiger Spaces client software. In addition, you must ensure that the “Code Signing” purpose of each certificate is enabled.

Install Tiger Spaces

Note: You can install or update Tiger Spaces on a Tiger appliance as a firmware update. For more information, refer to the administration guide of your Tiger appliance.

To install Tiger Spaces on a server computer:

1. In a web browser go to:
<https://license.tiger-technology.com>
2. Log in to the licensing server with your username and password and then click your Tiger Spaces order.

Note: If you are entering the Tiger Technology licensing site for the first time, you must fill out the registration form to continue.

3. In the left pane, click Current version.
4. Download the Tiger Spaces server installation and the Tiger Spaces clients bundle installation.

The screenshot shows the Tiger Technology Licensing Server interface. The top navigation bar includes 'Client', 'Software Order', and 'Licenses'. The 'Licenses' section is active, showing a table with columns: Product, Type, Date Created, Maintenance, Capacity, and Licenses. Below this, the 'Latest Version Download' section is displayed, which is divided into 'Windows' and 'Mac OS' tabs. The 'Windows' tab shows a table with columns: Description, Release Date, Size, and Download. The 'Mac OS' tab shows a similar table.

Product	Type	Date Created	Maintenance	Capacity	Licenses
Spaces 4.X	Evaluation	27-Sep-2022	Maintenance not started	100 TB	UNLIMITED

Latest Version Download			
Windows			
Description	Release Date	Size	Download
Instructions about downloading additional installation components	23-Mar-2021	319.44 KB	
Tiger Spaces Server 4.6.0.176 For Windows	23-Mar-2021	87.70 MB	
Tiger Spaces Clients Bundle 4.6.0.176	23-Mar-2021	356.19 MB	

Mac OS			
Description	Release Date	Size	Download
Tiger Spaces 4.7.0 58 for Mac OS (includes support for macOS 12 Monterey for Intel)	23-Mar-2021	142.51 MB	

Note: You can also download the SQL Server 2014/2016/2019 Express for Tiger Spaces installer (Tiger_Spaces_SQL_Server_Installer.exe). Use it to install SQL Server 2014/2016/2019 Express on the computer, which will store and manage the Tiger Spaces database - the Tiger Spaces server itself or another computer, in case you want to deploy Tiger Spaces with high availability.

5. Browse for and double-click the Tiger Spaces server installation file and then click Next.
6. Accept the terms of the software license agreement and click Next.
7. Click Install.

Getting Started with Tiger Spaces

8. When the installation finishes, click Close.
9. Browse for and double-click the Tiger Spaces clients bundle installation.
10. Click Next and then Install.
11. When the installation finishes, click Close.

To install the SQL Server Express configured for Tiger Spaces installer on the database server:

Note: You can download the installer from the Tiger Technology licensing server. See the steps on page 13. Make sure you download and install the custom SQL Server Express installer, which is compatible with the operating system of your database server. For more details, see “Database Server Requirements” on page 10.

Tip: In case the computer designated to manage the Tiger Spaces database already runs Microsoft SQL Server, refer to “Configure the Access to the Database Server” on page 18 for steps about configuring it for work with Tiger Spaces.

1. Right-click Tiger_Spaces_SQL_Server_Installer.exe and in the context menu select to run the installation as administrator.

The installer extracts the installation files in a temporary folder.

2. When prompted, press any key on your keyboard to proceed with the installation.
3. After the installation finishes, press Y and then Enter, to restart the computer.

To download and install the Tiger Spaces client driver:

1. In a web browser, access the IP address of the computer running Tiger Spaces server through a secure https connection (https).

For example, if the computer running Tiger Spaces server has IP address 10.200.6.29, in the address bar of a web browser enter the following:

`https://10.200.6.29`

2. On the home page of the Tiger Spaces web interface, click the Downloads button  in the upper right corner.
3. Find the Tiger Spaces Client installation file for your operating system and click Download.
4. When the installation file downloads to your computer, double-click it to start the installation.
5. Follow the on-screen instructions and if prompted, restart your computer.

Note: On macOS, if prompted, confirm that you allow the loading of the Tiger Spaces client kernel extensions.

The Tiger Spaces client icon appears in the Menu Bar/System Tray of your computer.

Important: (macOS) If the Tiger Spaces client icon does not appear in the Menu bar, you should manually allow the Tiger Spaces client software in the General tab of the Security & Privacy window in System Preferences.

Uninstall Tiger Spaces

Unless Tiger Spaces is running on a Tiger appliance, you can uninstall it from the computer at any time. Once you uninstall Tiger Spaces, the workspaces depot folder and all its contents on the shared storage volumes/network shares become visible to anyone having access to it.

To uninstall Tiger Spaces from a Tiger appliance, you should request assistance from Tiger Technology support.

To uninstall Tiger Spaces from the server computer:

1. In Control Panel, double-click Programs and Features.
2. Right-click Tiger Spaces and select Uninstall.
3. When prompted to confirm that you want to remove Tiger Spaces from the computer, click Yes.
4. Click OK.
5. When the uninstallation finishes, click Close.

To uninstall the Tiger Spaces client driver from Windows:

1. In Control Panel, double-click Programs and Features.
2. Right-click Tiger Spaces Client and select Uninstall.
3. When prompted to confirm that you want to remove Tiger Spaces from the computer, click Yes.
The uninstallation of Tiger Spaces Client warns you that you will have to restart the computer to complete the uninstallation.
4. Click OK.
5. When prompted, restart the computer.

To uninstall the Tiger Spaces client driver from macOS:

1. Go to Applications | Tiger Spaces Client.
2. Double-click Uninstall.
3. Provide the administrator's username and password.
4. When prompted, confirm that you want to uninstall the Tiger Spaces Client driver and then restart the computer.

Access the Web Interface

You can access the Tiger Spaces web interface from any computer, which is on the same network as the computer running the Tiger Spaces server installation. The web interface is accessible with most web browsers as long as JavaScript is enabled. To load the web interface in your browser you need to access the IP address of the Tiger Spaces computer through a secure https connection (https). You can download and configure a self-signed security certificate by Tiger Technology, allowing you to access the web interface through a universal URL instead of an IP address and sparing you the need to confirm that you trust the security certificate each time. For more details, refer to “Utilize an SSL Certificate of Your Choice” on page 147.

Initially, you can log in to the web interface only with the following automatically created administrative account:

user name: psadmin

password: psadmin

After you set Tiger Spaces up for Active Directory domain or workgroup environment, to log in to the web interface as an administrator you must use:

- (domain environment) an account part of the Tiger Spaces Admins group or any of its subgroups on your domain controller. For more information, see “Specify the Active Directory Domain” on page 34.

Important: *Once you configure Tiger Spaces for work in a domain environment, you will not be able to use the default administrator’s account “psadmin”.*

- (workgroup environment) an internally created Tiger Spaces administrator’s account. For more information, see “Configure Workgroup Environment” on page 44.

To access the Tiger Spaces web interface:

1. In a web browser, access the IP address of the computer running Tiger Spaces server through a secure http connection (https).

For example, if the computer running Tiger Spaces server has IP address 10.200.6.29, in the address bar of a web browser enter the following:

https://10.200.6.29

Important: *If high availability is activated, you should access the web interface using the cluster IP (the IP address shared by both server nodes) specified during the initial setup. Until you configure the cluster IP address, you can only access the node view of the web interface by entering the IP address of one or the other node. Any changes to the Tiger Spaces settings introduced in the node view are valid only for the node, which you are currently accessing.*

2. Enter the user name and password in the respective fields and then click ► .

Note: *If you are logging in to the web interface as a domain user, it is advisable to provide the name without its domain i.e. “user” instead of “user@domain.com” or “domain\user”.*

Initial Setup of Tiger Spaces

The initial setup of Tiger Spaces involves procedures indispensable for the proper operation of the product:

- Configure the access to the Tiger Spaces database.
- Activate the product.
- (optional, if the Tiger Spaces computer is in a domain) Specify the Active Directory domain.
- (optional, if high availability is activated) Configure high availability.

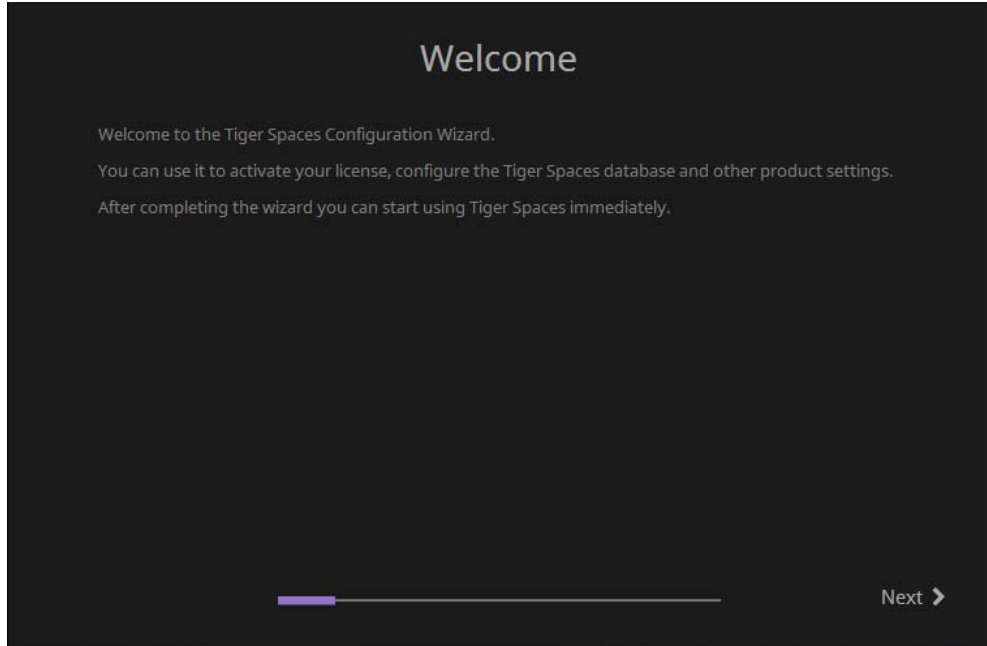
To facilitate you in performing the initial setup, a Configuration Wizard appears immediately when you attempt to access the web interface of Tiger Spaces for the first time.

You can also configure most parameters (except the access to the database server) through the Tiger Spaces web interface or by running the Configuration Wizard again.

To start the Tiger Spaces configuration wizard:

1. In a web browser, enter the following:
`https://[IP address of the computer/node running Tiger Spaces]/config`
For example, if the computer running Tiger Spaces server has IP address 10.200.6.29, in the address bar of a web browser enter the following:
`https://10.200.6.29/config`

The Configuration Wizard starts.



Configure the Access to the Database Server

Tiger Spaces uses a database managed by a computer running Microsoft SQL Server. You can use as a database server the Tiger Spaces server computer itself or another computer. Choosing another computer as a database server allows you to deploy Tiger Spaces with high availability. This way, if the active Tiger Spaces server node fails, the standby node automatically connects to the database server and takes over processing requests for access to the workspaces depot. Assigning a separate database server is useful even without high availability activated, as it allows you to resume work within your Tiger Spaces network as soon as you install and activate the Tiger Spaces server on a new computer.

Whether you configure the access to a new database server or connect to a previously used database server (after reinstalling Tiger Spaces or installing it on another computer, for example), to configure the access to it, you need to specify the following parameters:

- IP address or name of the database server.
- *If you have installed SQL Server 2014/2016/2019 Express configured for Tiger Spaces on the database server computer, enter the following:*
[IP address of the database server]\TIGERSPACES
If you have installed SQL Server 2014/2016/2019 Express configured for Tiger Spaces on the Tiger Spaces server, enter the following:
localhost\TIGERSPACES
username and password of a user with permissions to manage Microsoft SQL Server databases (create, delete, etc.) on the database server.
- name of the Tiger Spaces database.
- name and password of a user who will be used to access the Tiger Spaces database.

If you have installed SQL Server 2014/2016/2019 Express configured for Tiger Spaces on the database server, you need to provide the following credentials:

SQL administrator: sa

Password: kukukuraju70!

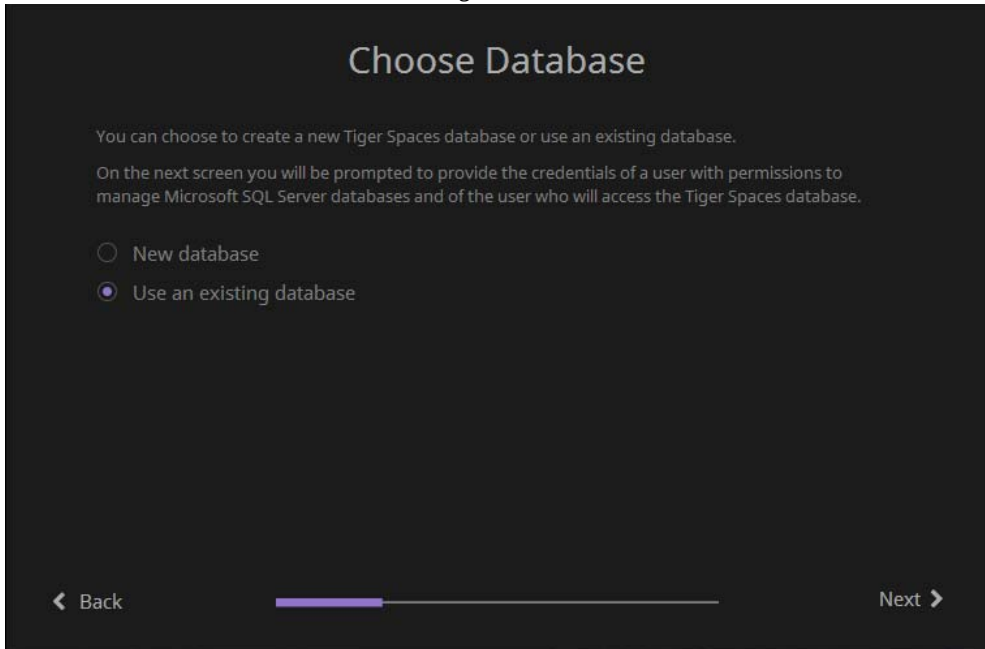
Database name: psdb

Tiger Spaces database username: psdb

Password: password

To configure the access to the database server:

1. Start the Tiger Spaces Configuration Wizard and click Next.
2. In Choose Database, do one of the following:



- Select “New database” to configure the access to the database server and create a new Tiger Spaces database on it.
 - Select “Use an existing database” to configure the access to the database server managing an already existing Tiger Spaces database.
3. Click Next and follow the on-screen instructions.

Once you configure the access to the database server the Configuration Wizard prompts you to activate Tiger Spaces, configure the Active Directory domain and the high-availability cluster (if a High Availability license is activated). You can choose to skip the configuration of any of these and configure them later on in the Tiger Spaces web interface.
 4. Click Finish.

Important: *If you are deploying Tiger Spaces with high availability, repeat the same steps in the Configuration Wizard on the other server node.*

Activate Tiger Spaces

Note: *Your Tiger Spaces license can be pre-activated on a Tiger Store appliance.*

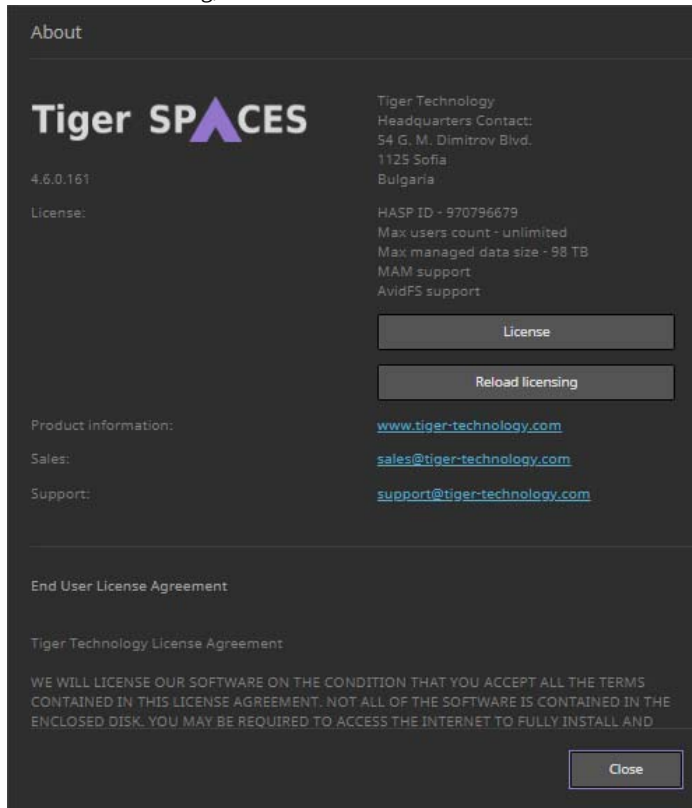
To be able to use the product, you need to activate it on the Tiger Spaces server. There's no need for activation of Tiger Spaces on client computers. You can activate your Tiger Spaces license, using a software activation key, a software-protection dongle (HASP), or as a software-as-a-service (SaaS).

You can activate Tiger Spaces during the initial setup of the product in the Configuration Wizard or later on, in the Tiger Spaces web interface.

Important: *Note that each time you configure a setting in the Configuration Wizard, you have to also configure the connection to the database server anew.*

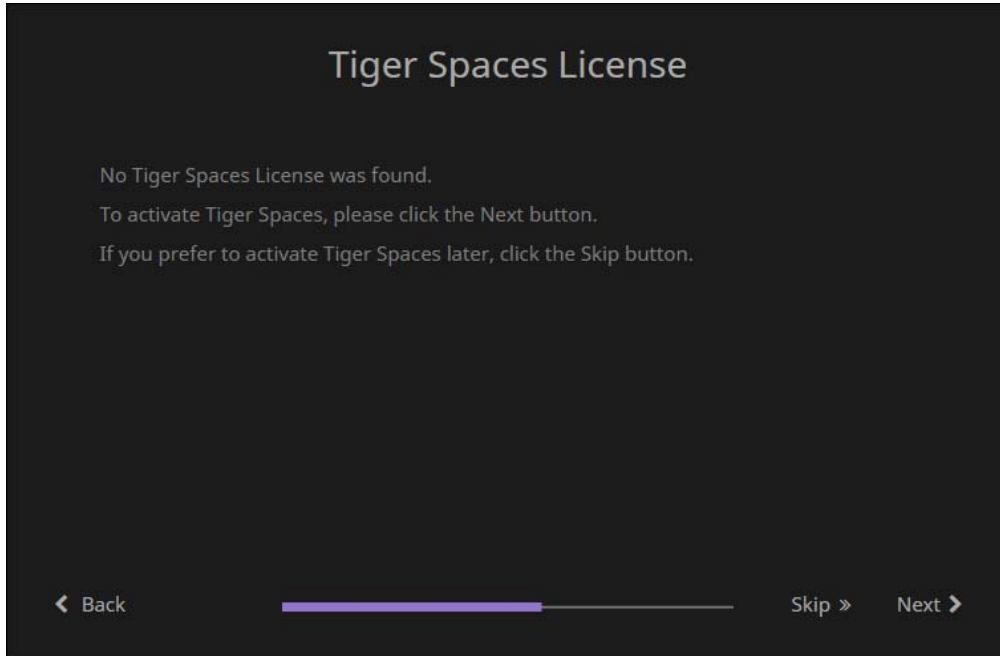
To view the activation status of Tiger Spaces in the web interface:

1. In the upper right corner of the web interface, click the About button .
2. In the About dialog, check the License field.



To activate a Tiger Spaces license using a software activation key in the Configuration Wizard:

1. Start the Tiger Spaces Configuration Wizard and click Next.
2. If necessary, configure the connection to the database server, following the steps described in “Configure the Access to the Database Server” on page 18 and click Next.
3. Click Next.



4. Select Software, copy the serial key, and then click the address of the Tiger Technology licensing server,

Tiger Spaces License

☒ Software
 ☐ SaaS
 ☐ Dongle / HASP

Enter the server activation key. You can obtain it from Tiger Technology web site at <https://www.tiger-technology.com>

Serial key: 3A2NX-EXFCW-PYR16-AMT81-8DWR9

Activation Key:

◀ Back
Next ▶

Important: Do not close the browser or exit the Configuration Wizard.

5. On the home page of the licensing server, enter your username and password in the corresponding fields, and click Log in.

Note: If you are entering the Tiger Technology licensing site for the first time, you may be prompted to fill out the registration form to continue.

Important: The username and the password are case-sensitive.

6. In the Licensing Server menu, click your Tiger Spaces order, and then in the left pane, click Activate License.

Getting Started with Tiger Spaces

7. Paste the serial number from the Activation dialog and click Generate Activation Key.

Product	Type	Maintenance	Capacity	Licenses
Spaces 4.0	Evaluation	Maintenance not started	50TB	UNLIMITED

Activate License

Serial Key:

[Generate Activation Key](#)

8. Copy the activation key generated for your license, and paste it into the respective field of the Configuration Wizard, then click Apply.

https://www.tiger-technology.com'. Below this is a 'Serial key:' label followed by the text '3A2NX-EXFCW-PYR16-AMT81-8DWR9'. Below that is an 'Activation Key:' label followed by a text input field containing 'Enter activation key' and an 'Apply' button. At the bottom, there are 'Back' and 'Next' navigation buttons with a progress bar in between."/>

Tiger Spaces License

☒ Software ☐ SaaS ☐ Dongle / HASP

Enter the server activation key. You can obtain it from Tiger Technology web site at <https://www.tiger-technology.com>

Serial key: 3A2NX-EXFCW-PYR16-AMT81-8DWR9

Activation Key: [Apply](#)

[Back](#) [Next](#)

9. Click Next.

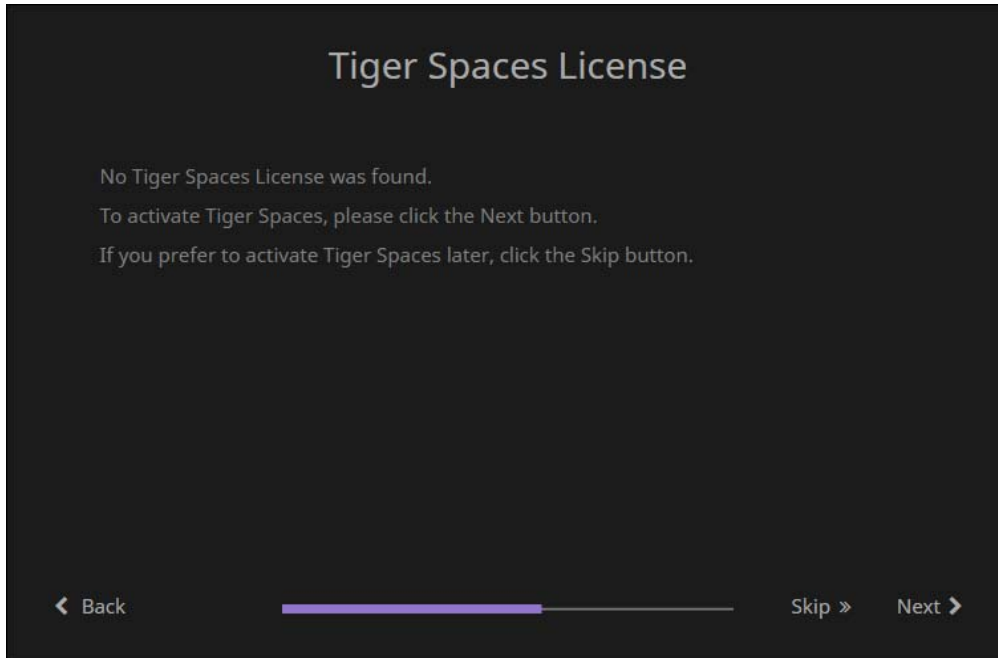
Once you activate the product, the Configuration Wizard prompts you to configure the Active Directory domain and the high-availability cluster (if a High Availability license is activated). You can choose to skip these steps and configure them later on in the Tiger Spaces web interface.

10. When prompted, click Finish.

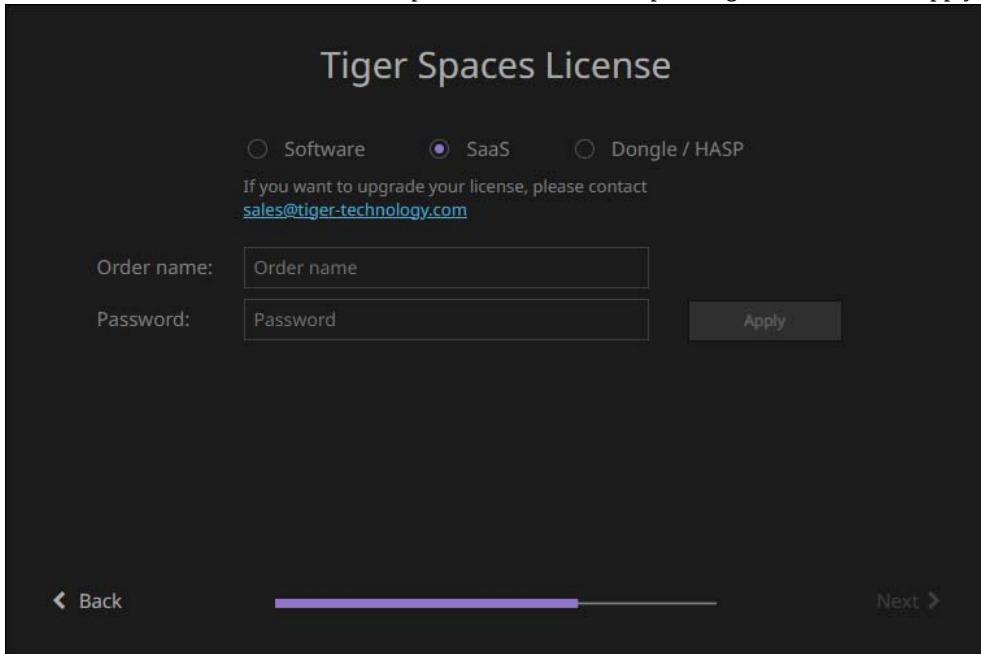
Important: *If you are deploying Tiger Spaces with high availability, repeat the same steps in the Configuration Wizard on the other server node as well.*

To activate a Tiger Spaces license using a SaaS license in the Configuration Wizard:

1. Start the Tiger Spaces Configuration Wizard and click Next.
2. If necessary, configure the connection to the database server, following the steps described in “Configure the Access to the Database Server” on page 18 and click Next.
3. Click Next.



4. Select SaaS, enter the order name and password in the corresponding fields, and click Apply,



The screenshot shows a dark-themed window titled "Tiger Spaces License". At the top, there are three radio buttons: "Software", "SaaS" (which is selected), and "Dongle / HASP". Below these, a text line says "If you want to upgrade your license, please contact" followed by the email address sales@tiger-technology.com. There are two input fields: "Order name:" and "Password:". To the right of the "Password:" field is an "Apply" button. At the bottom left is a "Back" button with a left arrow, and at the bottom right is a "Next" button with a right arrow. A purple progress bar is located at the bottom, indicating the current step in the wizard.

5. Click Next.

Once you activate the product, the Configuration Wizard prompts you to configure the Active Directory domain and the high-availability cluster (if a High Availability license is activated). You can choose to skip these steps and configure them later on in the Tiger Spaces web interface.

6. When prompted, click Finish.

Important: *If you are deploying Tiger Spaces with high availability, repeat the same steps in the Configuration Wizard on the other server node as well.*

To activate a Tiger Spaces license using a software protection dongle in the Configuration Wizard:

1. In a web browser go to <https://license.tiger-technology.com>.
2. On the home page of the licensing server, enter your username and password in the corresponding fields, and click Log in.

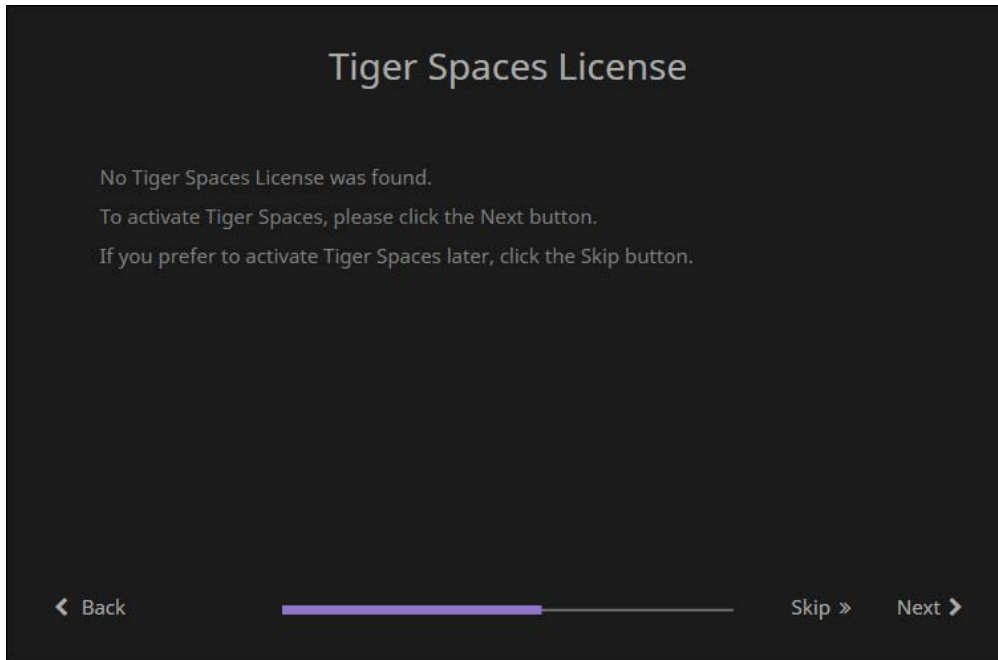
Note: *If you are entering the Tiger Technology licensing site for the first time, you should fill out the registration form to continue.*

Important: *The user name and the password are case-sensitive.*

3. On the home page of your account on the licensing server, find the Tiger Spaces dongle in the list, then click “Download lic file”.

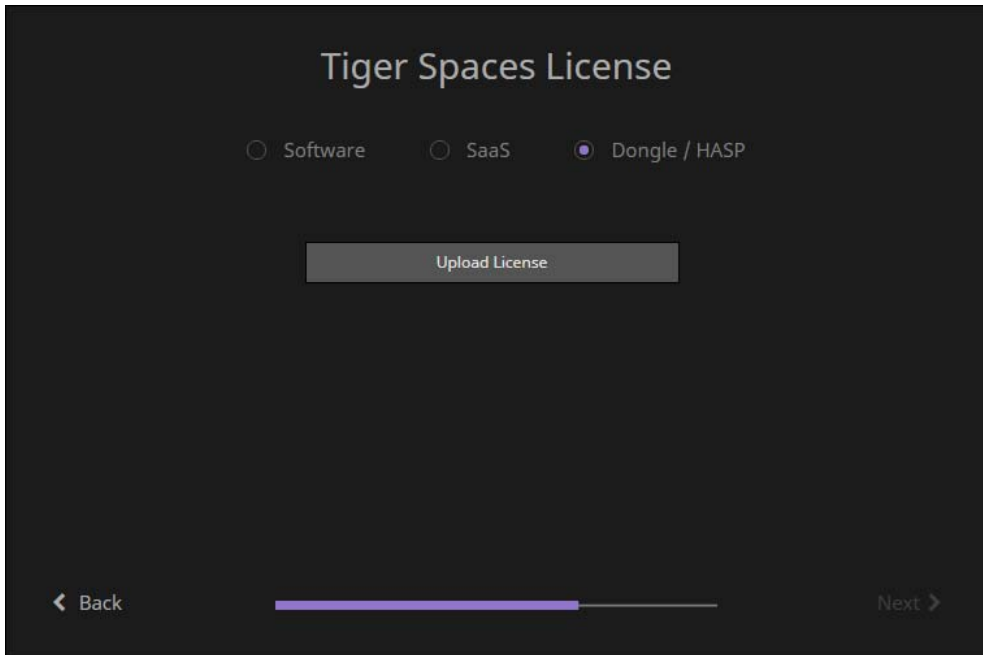
Tip: *The dongle's name is its number, printed on the dongle itself.*

4. Start the Tiger Spaces Configuration Wizard and click Next.
5. If necessary, configure the connection to the database server, following the steps described in “Configure the Access to the Database Server” on page 18 and click Next.
6. Click Next.



Getting Started with Tiger Spaces

7. Select Dongle/HASP, then click Upload License, and in the dialog that opens, browse for and double-click the license file downloaded from the Tiger Technology licensing server,



8. In the Configuration Wizard, click Next.

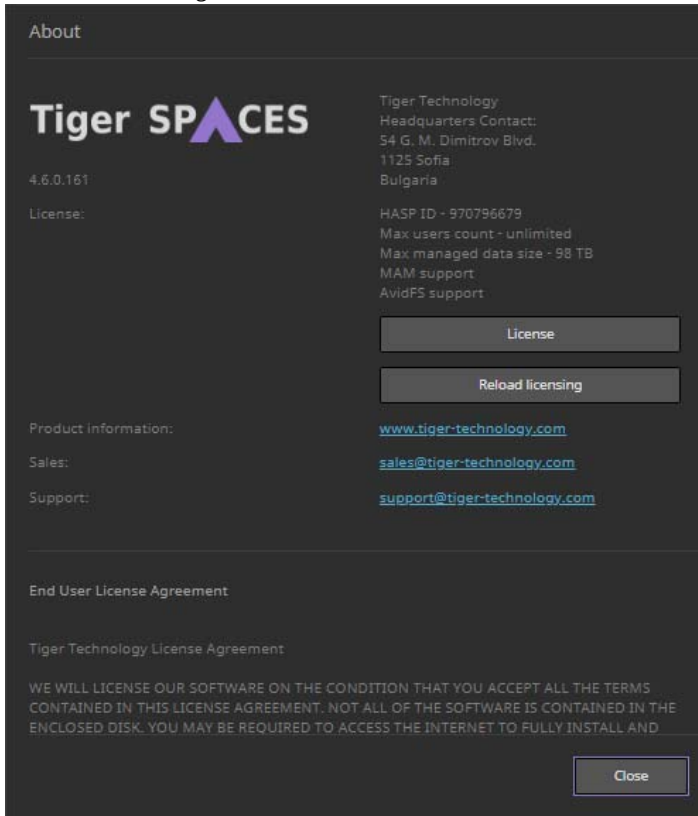
Once you activate the product, the Configuration Wizard prompts you to configure the Active Directory domain and the high-availability cluster (if a High Availability license is activated). You can choose to skip these steps and configure them later on in the Tiger Spaces web interface.

9. When prompted, click Finish.

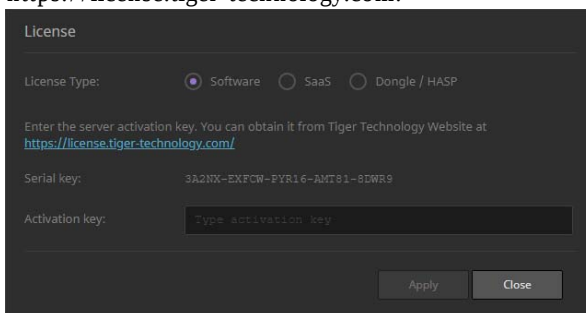
Important: *If you are deploying Tiger Spaces with high availability, repeat the same steps in the Configuration Wizard on the other server node as well.*

To activate a Tiger Spaces license using a software activation key in the web interface:

1. In the upper right corner of the web interface, click the About button .
2. In the About dialog, click License.



3. In the Activation dialog, select Software, then copy the serial number, and in a web browser go to <https://license.tiger-technology.com>.



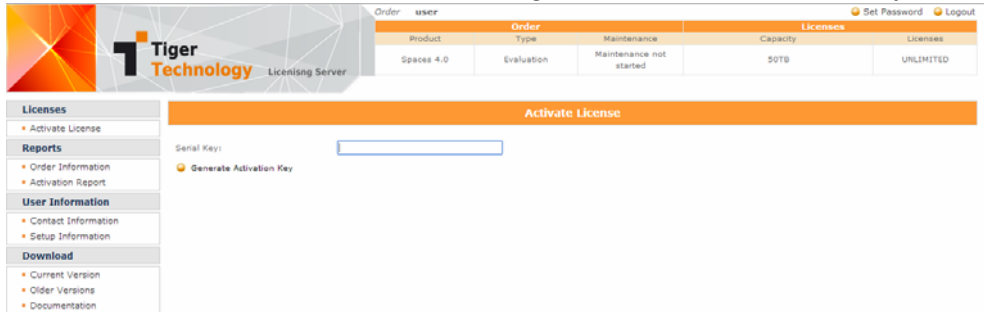
Getting Started with Tiger Spaces

- On the home page of the licensing server, enter your username and password in the corresponding fields, and click Log in.

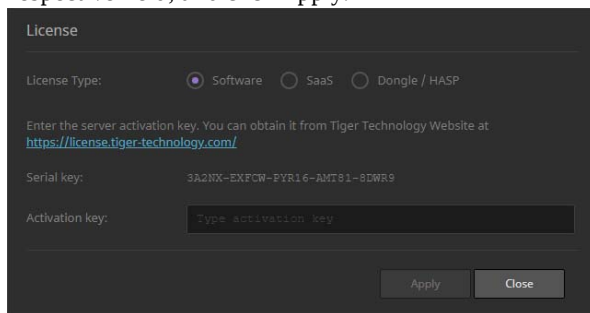
Note: If you're entering the Tiger Technology licensing site for the first time, you should fill out the registration form to continue.

Important: The username and the password are case-sensitive.

- In the Licensing Server menu, click your Tiger Spaces order, and then in the left pane, click Activate License.
- Paste the serial number from the Activation dialog and click Generate Activation Key.



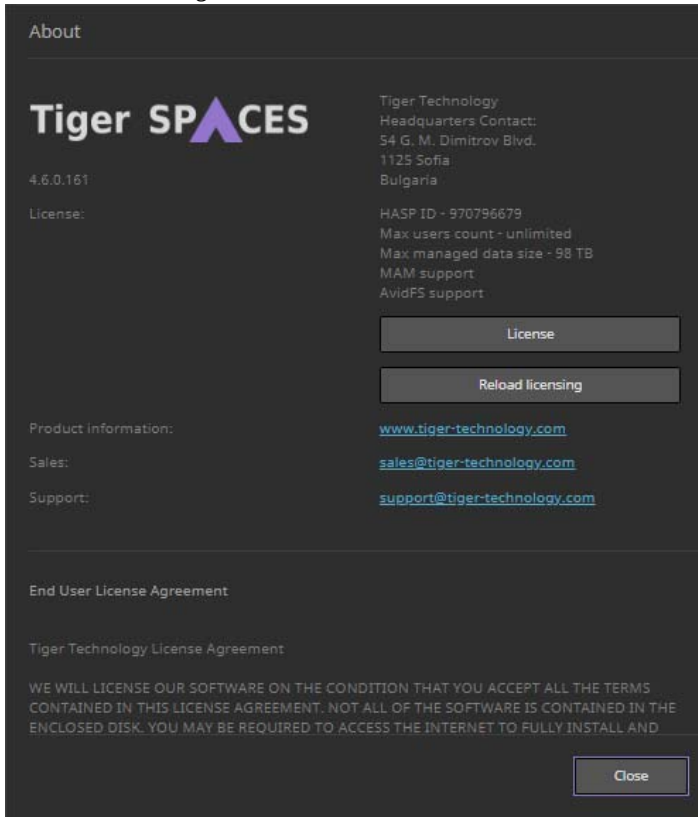
- Copy the activation key generated for your license.
- In the Activation dialog in the Tiger Spaces web interface, paste the activation key in the respective field, and click Apply.



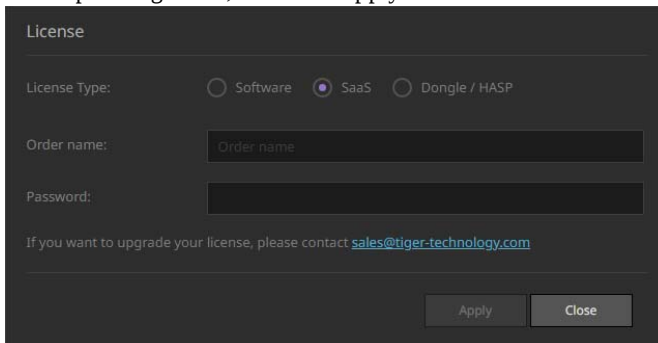
Important: If you are deploying Tiger Spaces with high availability, repeat the same steps on the other server node as well.

To activate a Tiger Spaces license using a SaaS license in the web interface:

1. In the upper right corner of the web interface, click the About button .
2. In the About dialog, click License.



3. In the Activation dialog, select SaaS, enter the Tiger Spaces order name and password in the corresponding fields, and then Apply.



Getting Started with Tiger Spaces

Important: *If you are deploying Tiger Spaces with high availability, repeat the same steps on the other server node as well.*

To activate a Tiger Spaces license using a software-protection dongle in the web interface:

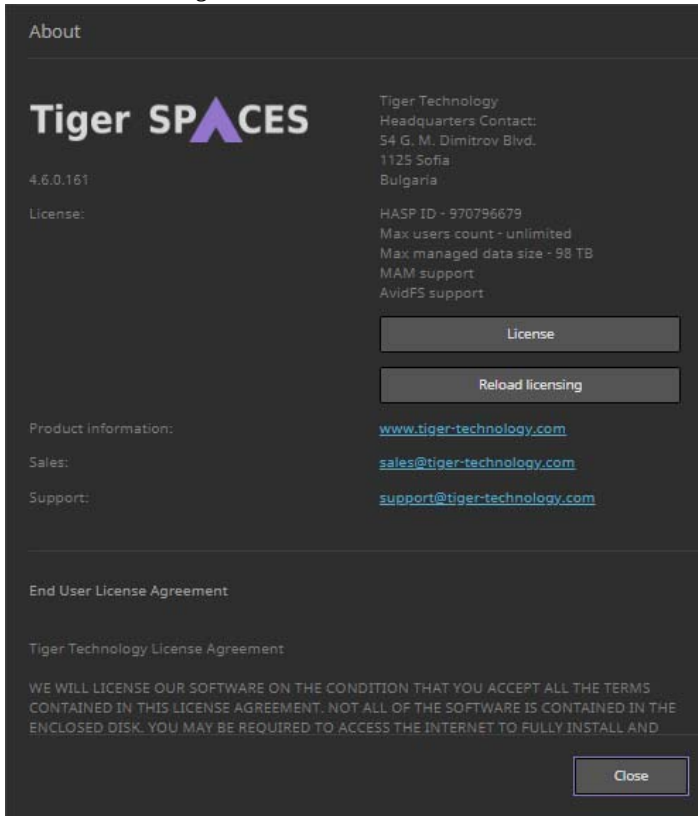
1. In a web browser go to <https://license.tiger-technology.com>.
2. On the home page of the licensing server, enter your username and password in the corresponding fields, and click Log in.

Note: *If you are entering the Tiger Technology licensing site for the first time, you should fill out the registration form to continue.*

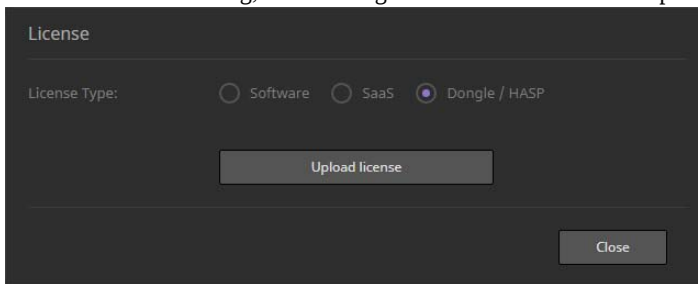
Important: *The username and the password are case sensitive.*

3. Click your Tiger Spaces order.
4. Next to the dongle name in the list, click “Download lic file”.
Tip: *The dongle's name is its number, printed on the dongle itself.*
5. In the upper right corner of the web interface, click the About button .

6. In the About dialog, click License.



7. In the Activation dialog, select Dongle/HASP and then click Upload license.



8. In the dialog that opens, browse for and double-click the license file downloaded from the Tiger Technology licensing server, then click Apply.

Important: If you are deploying Tiger Spaces with high availability, repeat the same steps on the other server node as well.

Specify the Active Directory Domain

Note: *If the computer running Tiger Spaces is not in an Active Directory domain, you can use Tiger Spaces in workgroup environment only. For more details about configuring Tiger Spaces for workgroup environment, refer to “Configure Workgroup Environment” on page 44.*

When the computer running Tiger Spaces is in Active Directory domain, you must create two groups of users on your domain controller:

Tiger Spaces Admins — all users in this group and any of its subgroups can access the administrative interface of Tiger Spaces and act as Tiger Spaces administrators;

Tiger Spaces Users — all users in this group and any of its subgroups can only work with Tiger Spaces (access the depot and work with workspaces) depending on the access permissions assigned to them;

If a domain user is a member of both “Tiger Spaces Admins” and “Tiger Spaces Users” groups, that user can work with workspaces and also can configure Tiger Spaces settings.

Although Tiger Spaces automatically detects if your Tiger Spaces server is part of an Active Directory domain, to be able to list the domain users in the “Tiger Spaces Users” and “Tiger Spaces Admins” groups and subgroups on the domain controller, you must provide the credentials of a user that has permissions to list the users in the domain you are using. If security is not disabled in Tiger Spaces, in the web interface you can set the access permissions (owner, write, read, none) of domain users in the respective groups for each workspace. For more information, refer to “Set Workspace Permissions” on page 121.

Important: *Once you configure Tiger Spaces for work in domain environment, you will not be able to use the default administrator's account “psadmin” and will be able to administrate the product only by logging in with an account in the “Tiger Spaces Admins” group or any of its subgroups on the domain controller.*

To provide domain credentials in the Configuration Wizard:

1. Start the Tiger Spaces Configuration Wizard and click Next.
2. Configure the connection to the database server, following the steps described in “Configure the Access to the Database Server” on page 18 and click Next.
3. If necessary activate Tiger Spaces, following the steps described in “Activate Tiger Spaces” on page 20 and click Next.

4. Enter the domain name as well as the user name and password of a user with permissions to list users in this domain, then click Next.

The screenshot shows a dark-themed configuration window titled "Active Directory Login Information". It contains two paragraphs of instructional text. The first paragraph explains that domain name, user name, and password must be specified for Active Directory users to work with Tiger Spaces. The second paragraph advises that after completion, the server should be a member of the specified domain or joined if necessary. Below the text are three input fields: "Domain name:", "Domain user:", and "Password:". Each field has a placeholder text: "Enter domain name", "Enter domain user", and an empty field for the password. A "Verify" button is located to the right of the password field. At the bottom, there are navigation options: a left arrow with "Back", a progress bar (partially filled), a right arrow with "Skip", and another right arrow with "Next".

Note: When specifying the domain name, you must use its netBIOS name and not the full DNS name of the domain. For example, if your domain is named "department.example.com", the netBIOS domain name you must enter would probably be just "example". Also, provide the name of the domain user account without its domain i.e. "user" instead of "user@domain.com" or "domain\user".

Once you specify the Active Directory login information, the Configuration Wizard prompts you to configure the high-availability cluster (if a high availability license is activated). You can choose to skip this step and configure it later on in the Tiger Spaces web interface.

5. Click Finish.

Important: If you are deploying Tiger Spaces with high availability, repeat the same steps in the Configuration Wizard on the other server node as well.

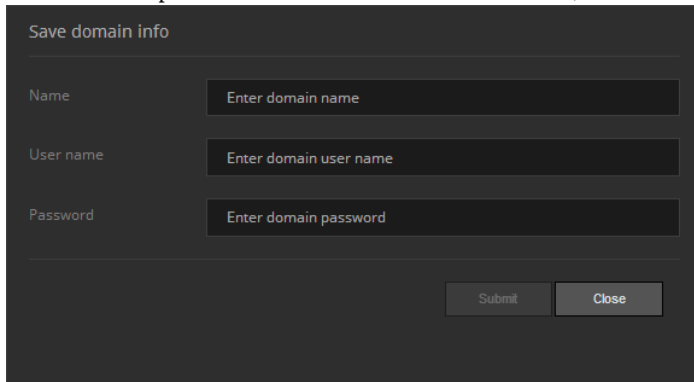
To provide domain credentials in the web interface:

Note: To ensure that Tiger Spaces retrieves up-to-date information about users and groups from your domain controller you must restart the Tiger Spaces service. You can do this by either restarting the Tiger Spaces server or by executing the following in Command prompt as an administrator:

```
net stop twsd
net start twsd
```

Getting Started with Tiger Spaces

1. In the home page of the Tiger Spaces interface, click the Domain Info button .
2. In the Save Domain Info dialog, enter the domain name as well as the user name and password of a user with permissions to list users in this domain, then click Submit.



The image shows a 'Save domain info' dialog box with a dark background. It contains three input fields: 'Name' with placeholder text 'Enter domain name', 'User name' with placeholder text 'Enter domain user name', and 'Password' with placeholder text 'Enter domain password'. At the bottom right, there are two buttons: 'Submit' and 'Close'.

Note: When specifying the domain name, you must use its netBIOS name and not the full DNS name of the domain. For example, if your domain is named "department.example.com", the netBIOS domain name you must enter would probably be just "example". Also, provide the name of the domain user account without its domain i.e. "user" instead of "user@domain.com" or "domain\user".

Configure the High-Availability Cluster IP Address

Note: This option is not available, if you have not activated high availability.

When you want to deploy Tiger Spaces with high availability, you need to install the product on two server nodes, both running Tiger Store also set up for high availability and configure the database server to be on an independent computer, accessible to both server nodes. Additionally, to allow clients to transparently reconnect to the new Tiger Spaces server in case of failover, you must enable cluster IP address to be used by the two server nodes. The cluster IP address must be on the same network as client computers and you can select the network interface of the server nodes, to which to assign it (the default network port, an additional 1 GbE port or any other 1/10 GbE port available on both server nodes). If you disable the cluster IP address, client computers will be able to connect only to the currently active server node and in case it is shut down, they will lose access to the workspaces depot.

To configure the cluster IP address in the Configuration Wizard:

1. Start the Tiger Spaces Configuration Wizard and click Next.
2. Configure the connection to the database server, following the steps described in "Configure the Access to the Database Server" on page 18 and click Next.

3. If necessary activate Tiger Spaces, following the steps described in “Activate Tiger Spaces” on page 20 and click Next.
4. Skip the Configuration Wizard activation step, if the product is already activated.
5. If necessary configure Active Directory login information, following the steps described in “Specify the Active Directory Domain” on page 34 and click Next.
6. Do the following:

High Availability: Cluster IP

To ensure smooth and proper operation of the high-availability feature it is recommended to enable a cluster IP address. The cluster IP address is transferred between Tiger Spaces server nodes and clients use it to connect to the Tiger Spaces high-availability cluster.

Please, refer to the product manual for more information about the cluster address.

☒ Enable cluster IP

Network Interface: Public ▼

IP Address: 192.168.100.116

Subnet mask: 255.255.255.0

Apply

◀ Back Skip ▶ Next ▶

- Select the “Enable cluster IP” check box.

Tip: To disable the cluster IP address, simply clear the check box and click Apply.

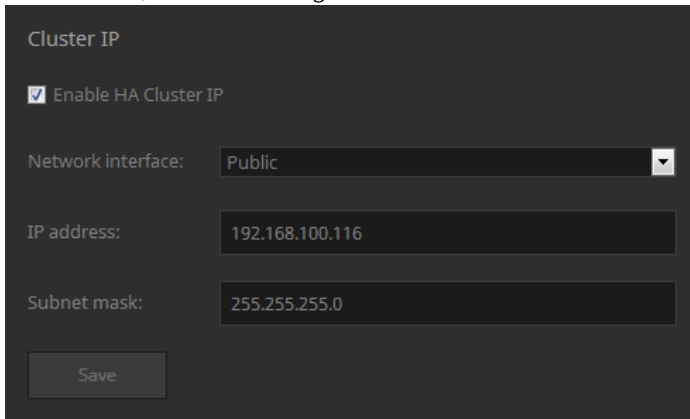
- In the Network Interface drop-down box, select the network interface to which to assign the cluster IP address.
- Enter the IP address and subnet mask in the respective fields and click Apply.

7. Click Next and then Finish.

Important: Repeat the same steps in the Configuration Wizard on the other server node as well.

To configure the cluster IP address in the web interface:

1. Log in to the Tiger Spaces web interface as an administrator.
2. In the upper right corner of the web interface, click Settings .
3. In the left pane, click HA Nodes .
4. In Cluster IP, do the following:



- Select the “Enable cluster IP” check box.

Tip: To disable the cluster IP address, simply clear the check box and click Save.

- In the Network Interface drop-down box, select the network interface to which to assign the cluster IP address.
- Enter the IP address and subnet mask in the respective fields and click Save.



Configure Tiger Spaces

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Configure Tiger Spaces

Once you have installed Tiger Spaces and performed the initial setup, you are ready to configure it for work. Tiger Spaces settings can be configured only by a user with an administrative account. To see how to log in to the Tiger Spaces web interface as an administrator, refer to “Access the Web Interface” on page 16.

Configure the Workspaces Depot

The workspaces depot can consist of Tiger Store-managed volumes and/or network shares. While Tiger Spaces automatically detects all Tiger Store-managed volumes and lets you enable Tiger Spaces support on them, before you can enable support for Tiger Spaces on a network share, you must first create a list of NAS appliances, whose network shares to use.

Create a List of NAS Appliances

You can add and remove NAS appliances from the list at any time. Even if you add a NAS appliance to the list, but do not enable Tiger Spaces support on the share(s) it exports, its share(s) are not part of the depot. Similarly, if you remove a NAS appliance from the list, even though Tiger Spaces support might have been enabled on its share(s), the share(s) are automatically removed from the depot.

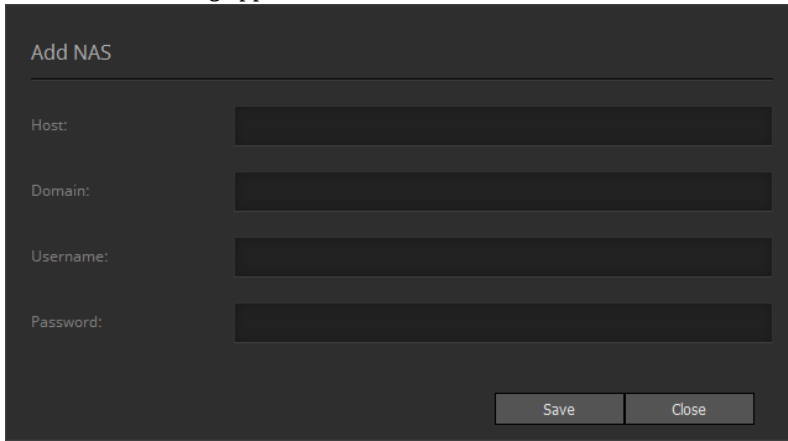
You cannot edit a NAS appliance's details such as credentials for access to its share(s) once you have added it to the list. In this case you have to remove it from the list and then add it anew with the new details.

To add a NAS appliance to the Tiger Spaces list:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click Storage.

3. In the upper right corner of the web interface, click the Connect Storage button .

The Add NAS dialog appears.

The image shows a dark-themed dialog box titled "Add NAS". It contains four input fields labeled "Host:", "Domain:", "Username:", and "Password:". Each field is followed by a dark rectangular input area. At the bottom right of the dialog, there are two buttons: "Save" and "Close".

Add NAS

Host:

Domain:

Username:

Password:

Save Close

4. Enter the details of the NAS appliance whose shares you want to add, including the credentials of the dedicated account used for access to the shares.
5. Click Save.

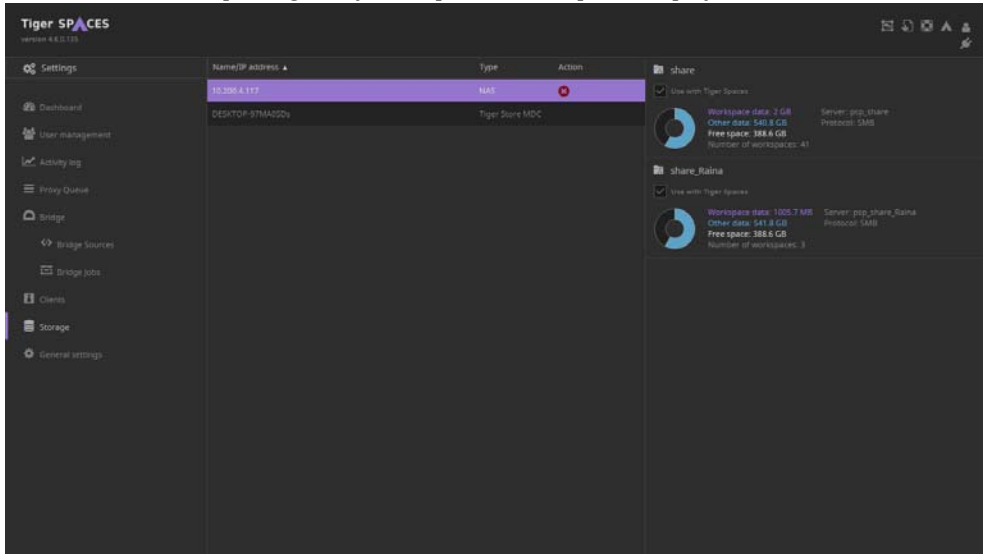
The NAS appliance is added to the list and you can enable support on each of its shares, following the steps in “Enable/Disable Support for Tiger Spaces” on page 42.

Configure Tiger Spaces

To remove a NAS appliance from the Tiger Spaces list:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click Storage.

The list of servers exporting file systems part of the depot is displayed.



3. Next to the IP address of a NAS appliance in the list, click the Delete button .

Tip: Click the NAS appliance to display detailed information about the shares it exports in the right pane.

4. When prompted, confirm that you want to remove the selected NAS appliance from the list.

Enable / Disable Support for Tiger Spaces

For Tiger Spaces to create the depot on a volume/network share and allow users to create workspaces and mount them for viewing or editing, you should first enable Tiger Spaces support on one or more volumes/network shares.

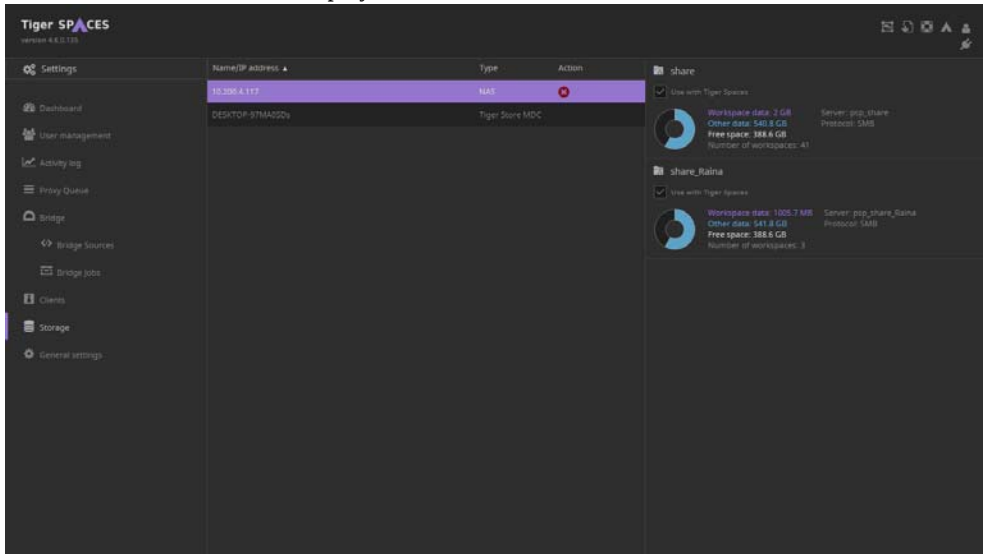
You can enable/disable support for Tiger Spaces at any time. When you disable support for Tiger Spaces the contents of each volume/network share's depot automatically becomes visible to any connected computer in the "twS" folder in the root of each volume/network share and access to workspaces in this folder depends only on the security applied to the volume/network share itself.

Important: If a folder named "twS" already exist in the root of the volume/network share, you cannot disable Tiger Spaces support until you rename that folder.

When you enable Tiger Spaces support on a Tiger Store-managed volume, you can also specify whether to hide this volume on Tiger Client computers, thus ensuring that the volume is used solely for storing Tiger Spaces workspaces.

To enable/disable Tiger Spaces support on a volume/share:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click Storage.
3. Select a server in the list to display all volumes/shares on the selected server with their details.



4. Do one of the following:
 - To enable Tiger Spaces support on a volume/share, select the “Use with Tiger Spaces” check box.

Note: If a volume or a network share is missing from the list, check whether all requirements outlined in “Storage Requirements” on page 8 are met.

 - To disable Tiger Spaces support on a volume/share, clear the “Use with Tiger Spaces” check box.
5. When prompted, confirm that you want to enable/disable Tiger Spaces support on the selected volume/share.
6. (optional, for Tiger Store-managed volumes only) Do one of the following:

Configure Tiger Spaces

- To hide a volume from Tiger Clients, select the “Hide” check box and then confirm, when prompted.
- To leave the volume visible to Tiger Clients, clear the “Hide” check box and then confirm, when prompted.

Enable / Disable Security

Whether or not Tiger Spaces is deployed in domain environment or workspace environment, you can configure the access to the workspaces depot without any security restrictions for users. This means that as long as a volume/network share is accessible to any given computer, users can create workspaces on it and there are no restrictions regarding who can view and mount for editing a workspace as long as its state is “Available”.

You can switch your Tiger Spaces setup to a deployment with no security at any time. See “Enable and Disable Permissions” on page 60.

Configure Workgroup Environment

Note: *If Tiger Spaces is part of an Active Directory domain, you cannot configure it for work in workgroup environment. For details on configuring Tiger Spaces for work in domain environment, refer to “Specify the Active Directory Domain” on page 34.*

When the computer running the server installation of Tiger Spaces is not in an Active Directory domain, to provide users on client computers with access to the workspaces depot, you should configure Tiger Spaces to operate in workgroup environment, in which accesses depend on the permissions assigned to internally created Tiger Spaces user accounts. Tiger Spaces user accounts are stored in a database common for all client computers. You can download the list of Tiger Spaces users and groups as a comma-separated value (CSV) file’.

Only users that log in with a valid Tiger Spaces user account can access the depot and create and work with workspaces. Additionally, if security is not disabled in Tiger Spaces, in the web interface you can set the access permissions (owner, edit, view) of each workspace. For more information, refer to “Set Workspace Permissions” on page 121.

For more information about creating the Tiger Spaces users database, refer to “Manage Tiger Spaces User Accounts and Groups” on page 44.

Manage Tiger Spaces User Accounts and Groups

When Tiger Spaces is deployed in an Active Directory domain, the user accounts management is performed the way you would manage domain users – members of the “Tiger Spaces Users” group and any of its subgroups can create and work with workspaces, while members of the “Tiger Spaces Admins” group or any of its subgroups on the domain controller can also manage Tiger Spaces

settings. The only difference is that you specify the access permissions of domain users to workspaces through the Tiger Spaces interface (see “Set Workspace Permissions” on page 121).

When you deploy Tiger Spaces in workgroup environment, to let users create and work with workspaces and also to benefit from workspace permissions, you need to create and manage an internal database with user accounts. Each user account is defined by a user name, password and account type - User (the user can work with workspaces) or Administrator (the user can work with workspaces and manage Tiger Spaces settings).

To facilitate you in assigning workspace permissions, Tiger Spaces also allows you to unite users into groups and instead of specifying the permissions of each user for a given workspace, assign permissions to the whole group.

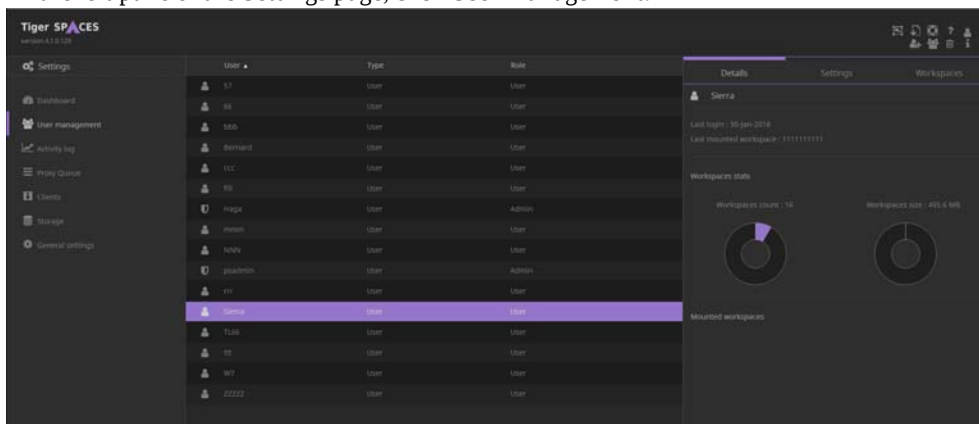
You cannot modify user accounts and groups after you create them. You can change the following parameters of a user account - password, type (User or Administrator) and groups the account is member of. You can change the following parameters of a user group - type (Users or Administrators) and members (add or delete users).

Note: You cannot rename Tiger Spaces users or groups. To change the name of a user or group, you have to delete it and then create it anew with the new name.

In case a user account is member of both a group of Administrators and a group of Users, the user gains administrative rights and can manage Tiger Spaces settings. Should you decide to change the type of an account from Administrator to User, Tiger Spaces automatically removes the user account from all groups of Administrators that it has been part of.

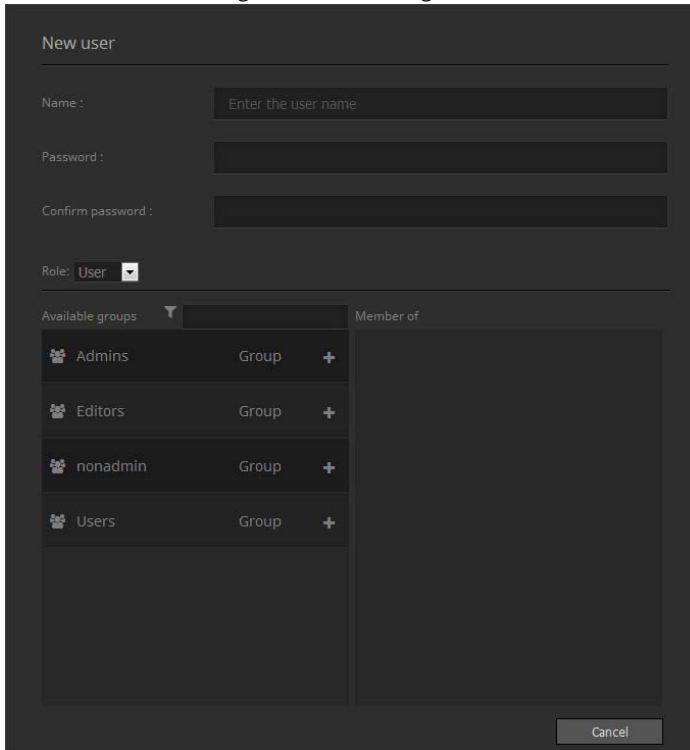
To create a Tiger Spaces user:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click User management.



Configure Tiger Spaces

3. In the upper right corner of the web interface, click the Create User button .
4. In the New User dialog, do the following:



New user

Name :

Password :

Confirm password :

Role: User ▼

Available groups	Member of
 Admins Group +	
 Editors Group +	
 nonadmin Group +	
 Users Group +	

Cancel

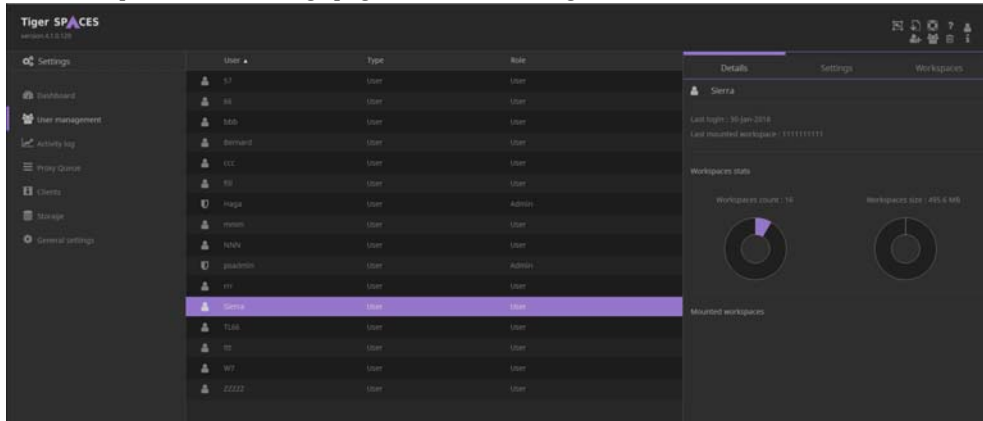
- Enter the user name and password in the corresponding fields.
- In the Role drop-down box, select User or Administrator.
- In Available Groups, click the + button of a group to add it to the list of groups the new user is member of.

Tip: To remove a group from the list of groups the new user is member of, click the - button in the group badge.

5. Click Save.

To create a Tiger Spaces user group:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click User management.



3. In the upper right corner of the web interface, click the Create Group button .

Configure Tiger Spaces

4. In the New Group dialog, do the following:

New group

Name:

Role: User ▼

Available accounts ▼		Members
admin	User	+
psadmin	User	+
rrr	User	+

Cancel

- Enter the group name in the corresponding field.
- In the Role drop-down box, select User or Administrator.
- In the list of existing user account, click the + button of a user to add it as a member of the new group.

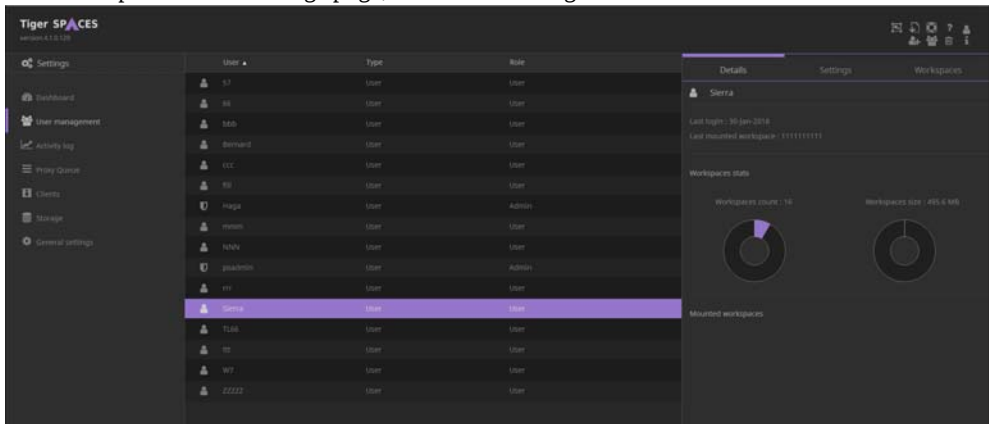
Tip: To remove a user from the group, click the - button in the user badge.

Important: Adding an existing group as a sub-group of the group you are currently creating is not supported.

5. Click Save.

To modify a Tiger Spaces user account:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click User management.



3. In the list of users and groups, click the account you want to modify.

Configure Tiger Spaces

4. In the details pane on the right, click Settings.

The screenshot shows a configuration window with three tabs: 'Details', 'Settings' (selected), and 'Workspaces'. The 'Settings' tab contains the following fields:

- beco**: Username field.
- Password:** Password input field.
- Confirm password:** Password confirmation input field.
- Role:** A dropdown menu currently set to 'User'.

Below these fields is a section for group membership:

Available groups	Member of
new_grpo_test Group +	new group Group -
some group Group +	
test group Group +	

At the bottom of the window are 'Save' and 'Cancel' buttons.

- To change the password of the user, enter the new password in the corresponding fields.
- To change the type of the user, select User or Administrator in the Role drop-down box.

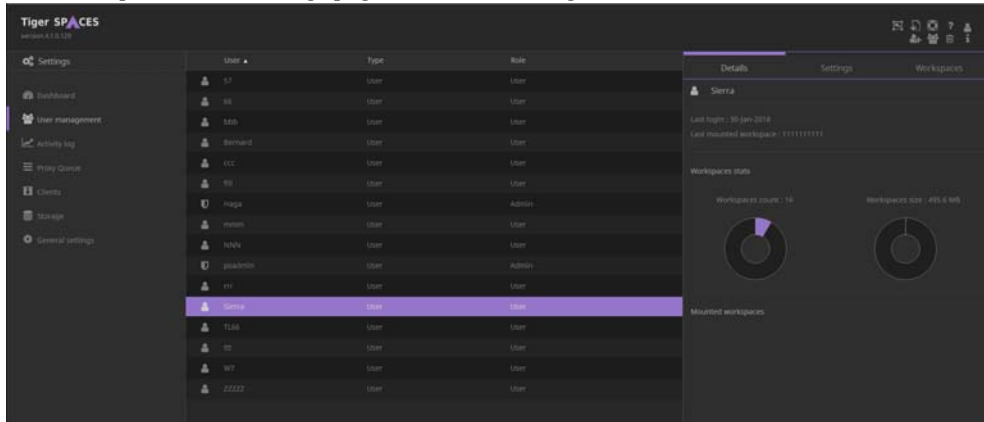
Important: If you change the type to User, but that account is member of Administrators group(s), Tiger Spaces automatically will remove the account from all groups of Administrators.

- To add the user to a group, click the + button next to a group name in the list of groups.
- To remove the user from a group, click the - button next to the group name in the “Member of” list.

5. Click Save.

To modify a Tiger Spaces user group:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click User management.



3. In the list of users and groups, click the group you want to modify.

Configure Tiger Spaces

4. In the details pane on the right, click Settings.

The screenshot shows a dark-themed user interface for configuring a user named 'beco'. The 'Settings' tab is active. It includes input fields for 'Password' and 'Confirm password', and a 'Role' dropdown menu currently set to 'User'. Below these is a section titled 'Available groups' with a search bar and a list of three groups: 'new_grpo_test', 'some group', and 'test group', each followed by a '+' button. To the right of this is a 'Member of' section with a list containing 'new group' followed by a '-' button. At the bottom of the pane are 'Save' and 'Cancel' buttons.

- To change the type of the group, select User or Administrator in the Role drop-down box.
- To add a user to the group, in “Available accounts” click the + button next to a user.

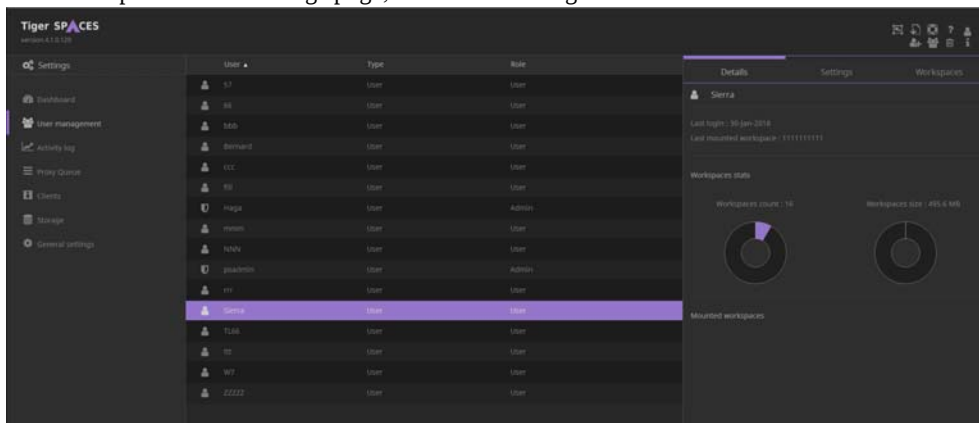
Important: Adding an existing group as a sub-group of the group you are currently modifying is not supported.

- To remove a user from the members of the group, in “Members” click the - button next a user.

5. Click Save.

To delete a Tiger Spaces user:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click User management.



3. In the list of users and groups, click the account you want to remove and click the Delete button .

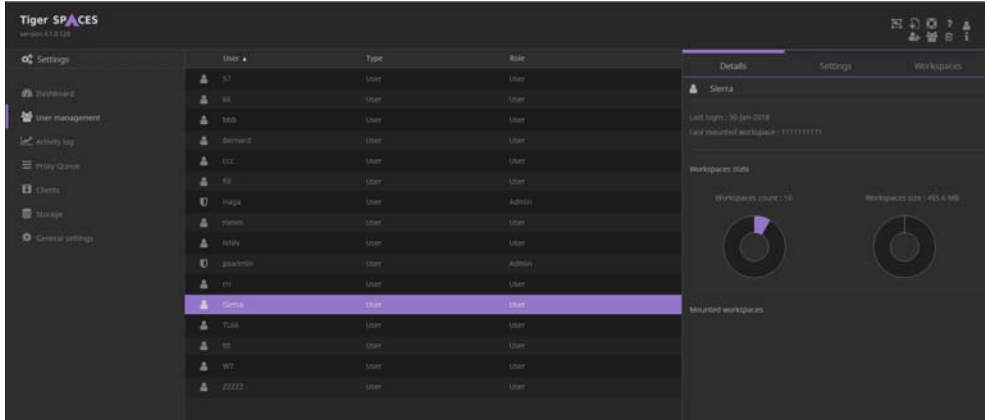
Tip: You can perform the operation on multiple users simultaneously by selecting them in the list while holding down the Ctrl or Shift keys on your keyboard or by using the Up or Down arrows on your keyboard and selecting the users using the space bar, while holding down the Ctrl or Shift keys.

4. Confirm that you want to delete the user, when prompted.

The deleted user no longer has access to the depot and to workspaces even if that user is the owner of these workspaces. It is advisable to assign another user as owner of the deleted user's workspaces.

To delete a Tiger Spaces user group:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click User management.



3. In the list of users and groups, click the group you want to remove and click the Delete button  .

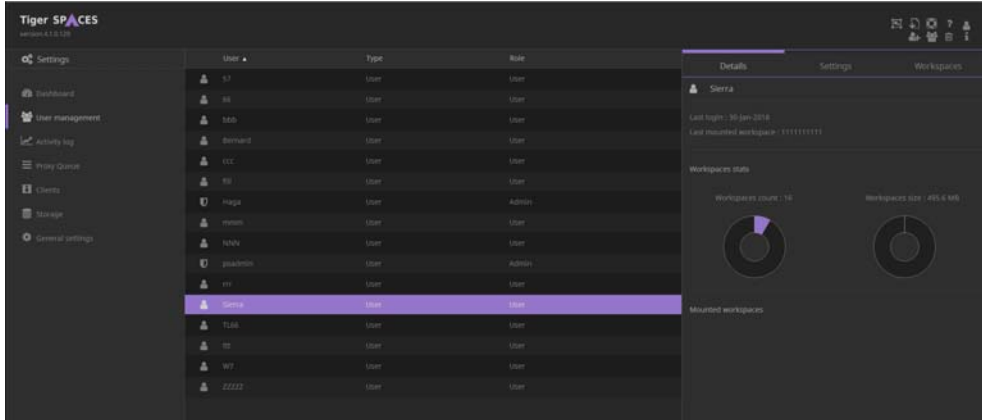
Tip: You can perform the operation on multiple groups simultaneously by selecting them in the list while holding down the Ctrl or Shift keys on your keyboard or by using the Up or Down arrows on your keyboard and selecting the groups using the space bar, while holding down the Ctrl or Shift keys.

4. Confirm that you want to delete the group, when prompted.

The members of the deleted group no longer have access to workspaces, for which permissions have been specified for the deleted group and not for each individual user.

To download the list of Tiger Spaces users and groups as a CSV file:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click User management.



3. In the upper right corner of the web interface, click the “Export as csv” button .
- Depending on the settings of your web browser, the .csv file either downloads automatically to your default location for downloaded files or you are prompted to select a location yourself.

Manage Workspace Settings

Enable / Disable Workspace Quotas

Important: *Workspace quotas are not supported on network shares. To benefit from workspace quotas, Tiger Spaces must be installed on a Tiger appliance or a computer running server OS.*

The workspace quotas setting allows you to specify the maximum size of a workspace on the underlying file system in the depot. The quota you specify does not reserve space on the file system, but serves just as a limit to the size of the workspace. Thus, whenever a user attempts to write new files to a workspace, which has reached its quota, Tiger Spaces displays a message that there is not enough free space, although the underlying volume may have more free space. You can specify a quota that is bigger than both the free space on the volume and its overall size, which will indicate that there's no limit for the size of the specific workspace. Similarly, a workspace without quota setting can take as much space on the volume as possible. Tiger Spaces does not calculate the sum of all quotas you specify - should the underlying volume run out of free space, even if a workspace has not reached its quota limit, users cannot write new data to it.

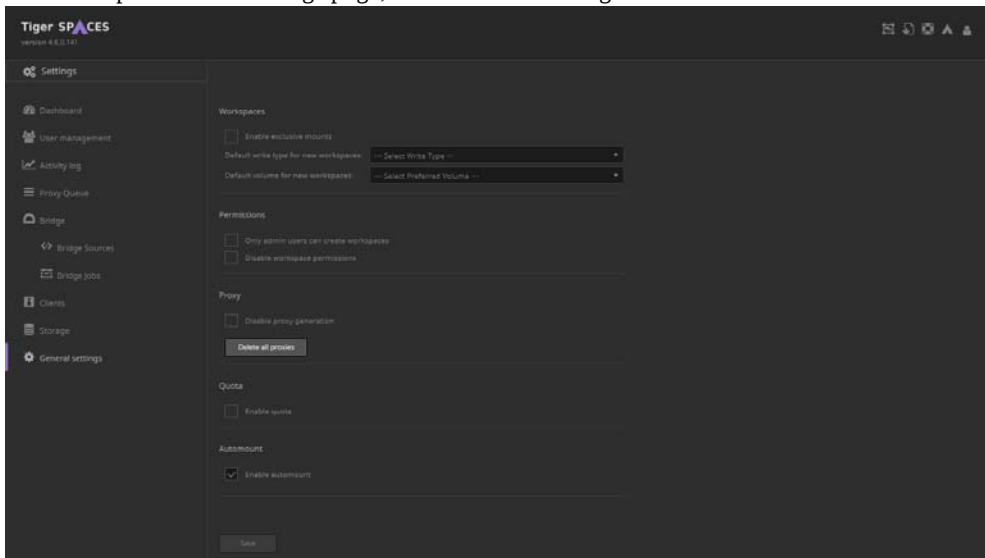
Configure Tiger Spaces

Once workspace quotas are enabled, only Tiger Spaces administrators can create new workspaces on SAN volumes, import folders from SAN volumes and move existing workspaces between SAN volumes. Tiger Spaces users can create workspaces and import folders only on the available network shares in the depot, and cannot move a workspace from a network share to a SAN volume.

You can enable and disable workspace quotas at any time. When workspace quotas are enabled after there are workspaces already created or imported in the depot, it is advisable to set a quota for each of them. Once you disable quotas the quota setting is lost and you will have to manually assign a quota to each workspace, should you decide to enable them again.

To enable/disable workspace quotas:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click General Settings.



3. In the General Settings page, do one of the following:
 - To enable workspace quotas, select the “Enable quota” check box.
 - To disable workspace quotas, clear the “Enable quota” check box.
4. Click Save.

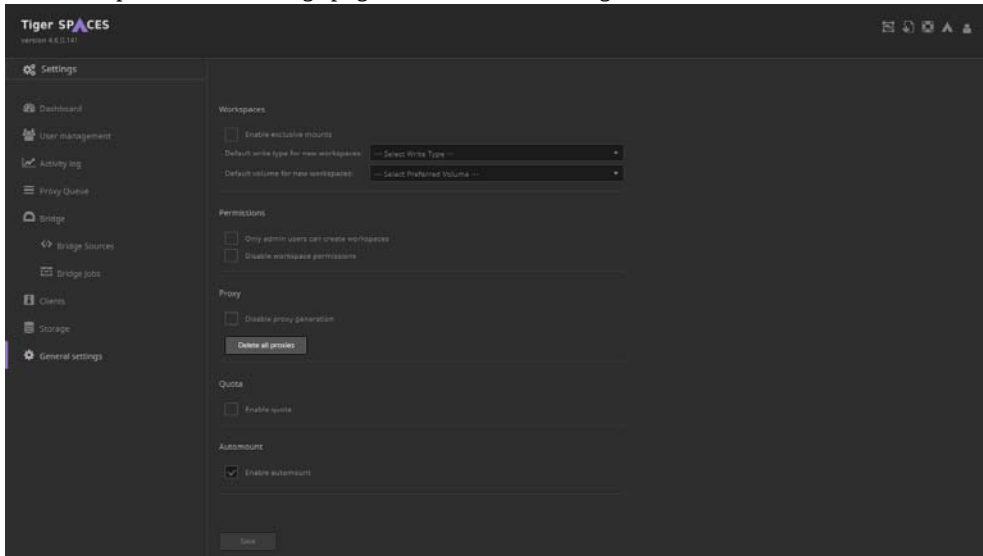
Tiger Spaces administrators can assign a quota of workspace when creating it or change its existing quota, following the steps in “Change The Workspace Quota” on page 128.

Restrict Users from Creating Workspaces

By default, both users and administrators can create new workspaces in the Tiger Spaces depot. When workspace quotas are enabled, only administrators can create new workspaces on SAN volumes, while users can create workspaces only on network shares. To restrict users from creating new workspaces on both SAN volumes and network shares even if workspace quotas are disabled, you can set Tiger Spaces to allow only administrators to create workspaces.

To specify who can create new workspaces:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click General Settings.



3. In the General Settings page, do one of the following:
 - To restrict users from creating new workspaces, select the “Only admin users can create workspaces” check box.
 - To allow users to create new workspaces, clear the “Only admin users can create workspaces” check box.

Note: When workspace quotas are enabled, users will not be able to create new workspaces on SAN volumes, even if this check box is cleared.

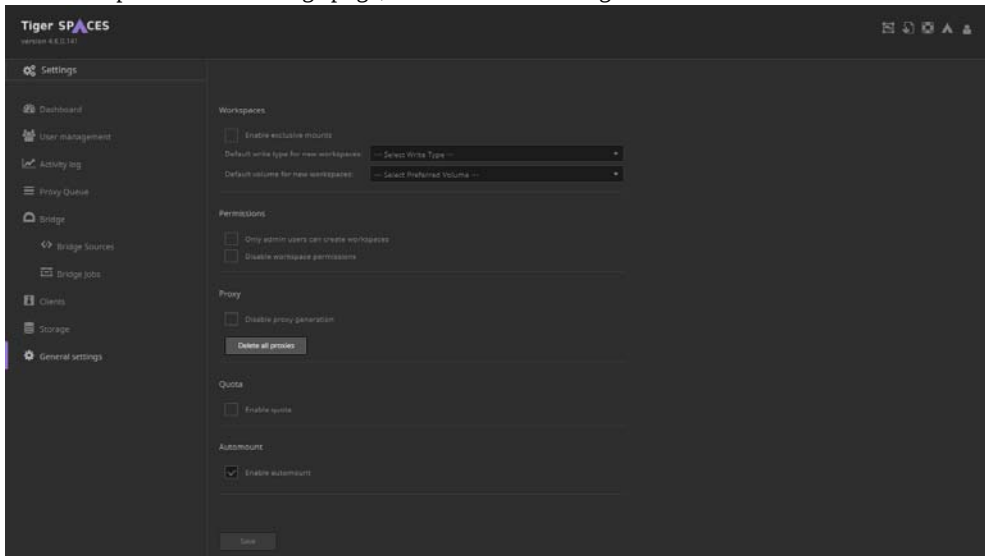
4. Click Save.

Control Exclusive Mounts of Workspaces

Tiger Spaces provides users with the option to mount a workspace for editing with Exclusive permissions i.e. not letting any other computer mount it for editing or viewing until the workspace state is again Available, regardless of the type of the workspace. As a Tiger Spaces administrator you can control whether this option should be available to users or not.

To enable/disable Exclusive mount of workspaces:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click General Settings.



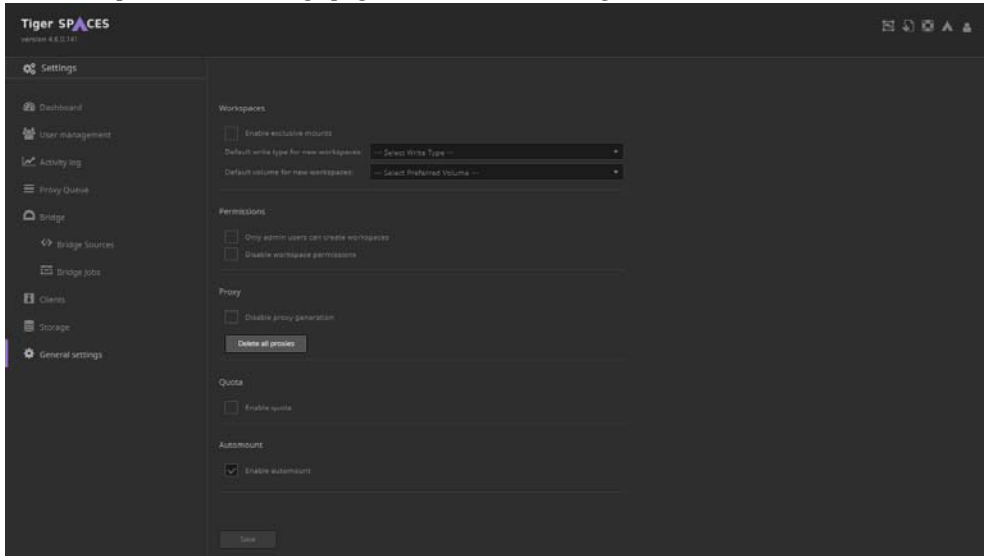
3. In the General Settings page, do one of the following:
 - To enable Exclusive mount of workspaces, select the “Enable exclusive mounts” check box.
 - To disable Exclusive mount of workspaces, clear the “Enable exclusive mounts” check box.
4. Click Save.

Specify New Workspace Defaults

By default, when you create a new workspace, you are prompted to specify the workspace write type and volume. You can specify default values for these workspace parameters, which will be pre-selected in the New Workspace dialog. When creating a new workspace, the user will still be able to select different parameters. You can change the workspace defaults or revert to using no defaults at any time.

To specify new workspace defaults:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click General Settings.



3. In the “Default write type for new workspaces” drop-down box, select the desired type.
4. In the “Default volume for new workspaces” drop-down box, select the volume/network share from the list or select Auto to make Tiger Spaces create the workspace on the volume/share with most free space.
5. Click Save.

Enable and Disable Automounting of Workspaces

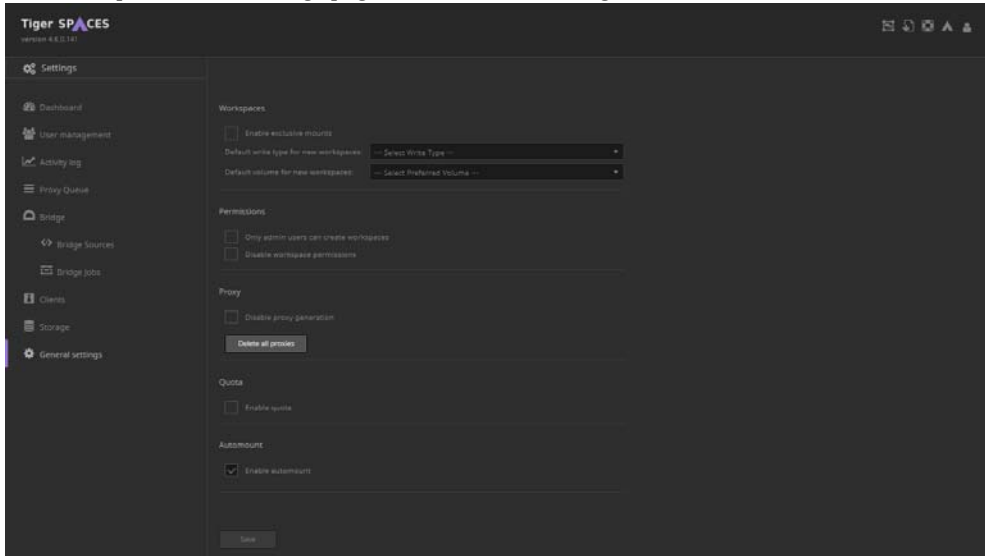
By default, users can pin workspaces, which allows them to automatically mount them each time they log in to the web interface as long as it is not already mounted on another computer. For more information about pinning workspaces, see “Pin a Workspace” on page 110.

As a Tiger Spaces administrator you can disable automounting of workspaces, letting users mount them only manually in the Tiger Spaces interface.

Configure Tiger Spaces

To enable/disable workspaces automount:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click General Settings.



3. In the General Settings page, do one of the following:
 - To allow users to pin workspaces, select the “Enable automount” check box.
 - To disallow pinning of workspaces, clear the “Enable automount” check box.
4. Click Save.

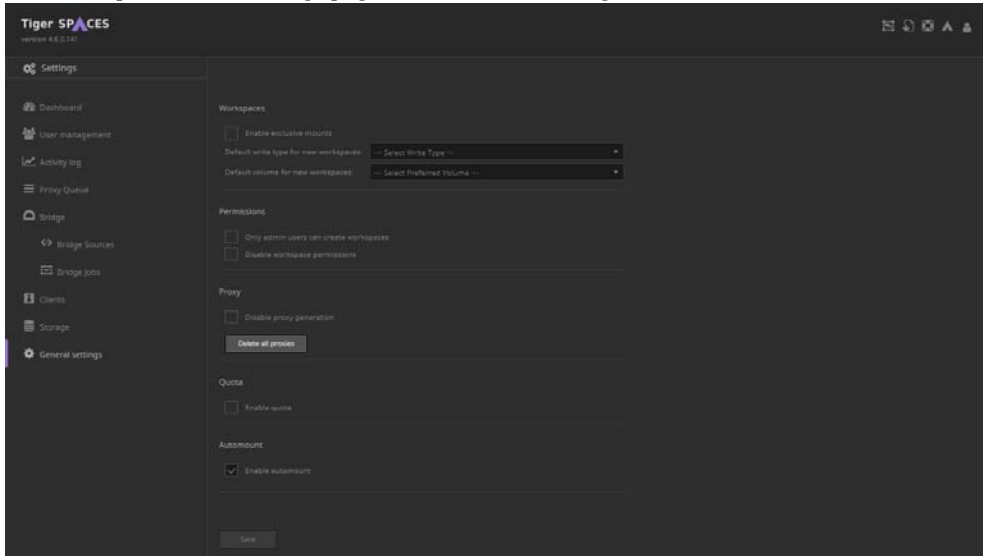
Enable and Disable Permissions

Regardless of the environment in which you deploy Tiger Spaces, you can select whether to use permissions (none, read, write, owner) for access to the workspaces or not. If permissions are disabled, the access to workspaces depends only on the current state of the workspace – Available (you can mount the workspace for editing or viewing) or In Use (you can mount the workspace for viewing only).

When permissions are enabled in domain environment, you must specify the access permissions for each workspace of domain user accounts. When permissions are enabled in workgroup environment, you must specify the access permissions for each workspace of internal Tiger Spaces user accounts.

To enable/disable permissions:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click General Settings.



3. In the General Settings page, do one of the following:
 - To disable permissions, select the “Disable workspace permissions” check box.
 - To enable permissions, clear the “Disable workspace permissions” check box.
4. Click Save.

Manage Proxies

Managing the proxies means to enable or disable the generation of proxy media. By default, Tiger Spaces generates proxy media for all media files in the workspaces in order to facilitate previewing workspaces’ contents without having to mount them. Proxies are generated by the pre-installed parsers for most media files.

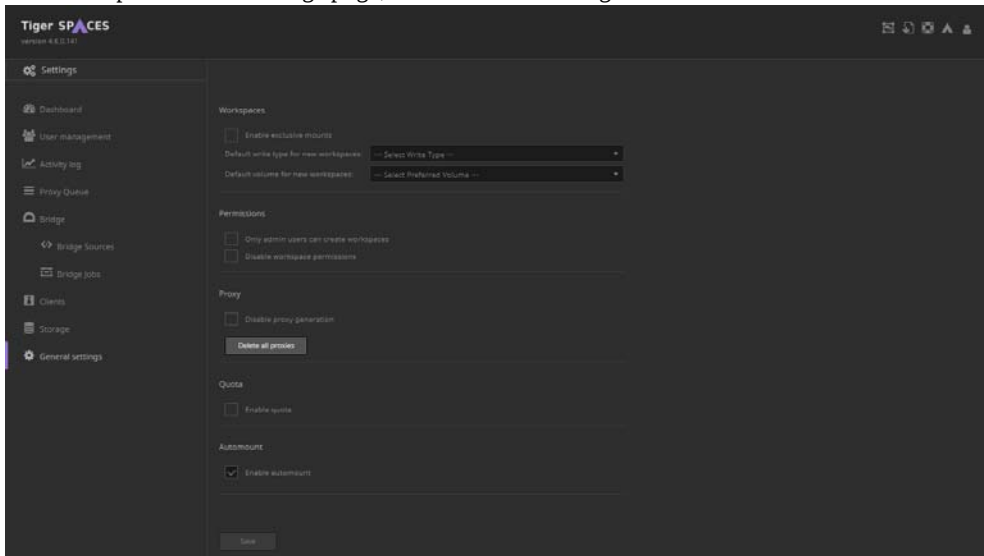
When proxies generation is enabled, Tiger Spaces scans for media without proxies in a workspace each time that workspace is unmounted from the last computer that has mounted it for editing. You can force the generation of proxies for a workspace with no proxy media generated so far, by rescanning it (see “Rescan a Workspace” on page 129).

Configure Tiger Spaces

Tiger Spaces also allows you to manually manage proxies by monitoring the progress of the queue and of individual proxy files, by pausing and starting the processing of the proxies queue. You can also delete all generated proxies or just the proxies associated with a specific workspace.

To enable/disable proxies generation:

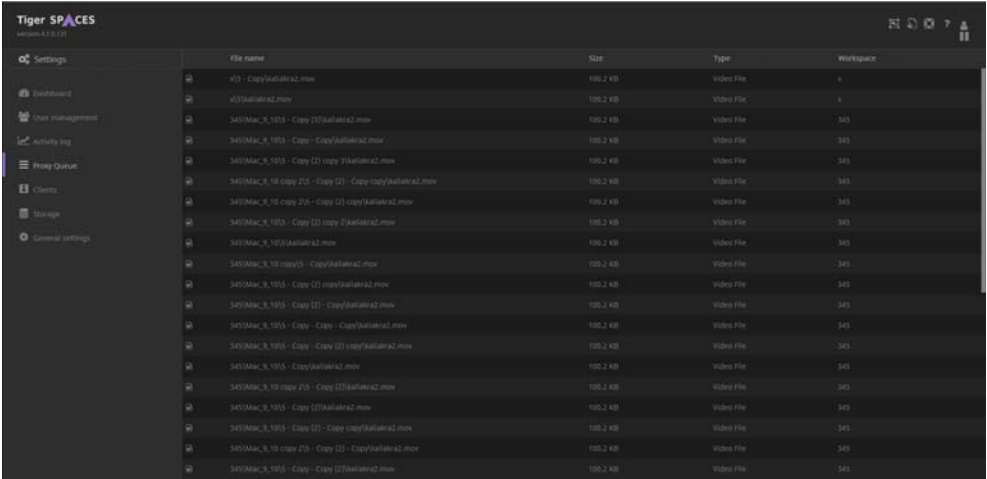
1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click General Settings.



3. In the General Settings page, do one of the following:
 - To enable proxies generation, clear the “Disable proxy generation” check box.
 - To disable proxies generation, select the “Disable proxy generation” check box.
4. Click Save.

To pause/resume the proxies queue:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click Proxy Queue.



	File name	Size	Type	Workspace
	x13 - Copy\ballatr2.mox	100.2 KB	Video File	x
	x13\ballatr2.mox	100.2 KB	Video File	x
	340Mac_8_1013 - Copy\13\ballatr2.mox	100.2 KB	Video File	340
	340Mac_8_1013 - Copy - Copy\ballatr2.mox	100.2 KB	Video File	340
	340Mac_8_1013 - Copy (2) copy\13\ballatr2.mox	100.2 KB	Video File	340
	340Mac_8_10 copy 210 - Copy (2) - Copy copy\ballatr2.mox	100.2 KB	Video File	340
	340Mac_8_10 copy 210 - Copy (2) copy\ballatr2.mox	100.2 KB	Video File	340
	340Mac_8_1013 - Copy (2) copy\13\ballatr2.mox	100.2 KB	Video File	340
	340Mac_8_1013\ballatr2.mox	100.2 KB	Video File	340
	340Mac_8_10 copy13 - Copy\ballatr2.mox	100.2 KB	Video File	340
	340Mac_8_1013 - Copy (2) copy\ballatr2.mox	100.2 KB	Video File	340
	340Mac_8_1013 - Copy (2) - Copy\ballatr2.mox	100.2 KB	Video File	340
	340Mac_8_1013 - Copy - Copy - Copy\ballatr2.mox	100.2 KB	Video File	340
	340Mac_8_1013 - Copy - Copy (2) copy\ballatr2.mox	100.2 KB	Video File	340
	340Mac_8_1013 - Copy\ballatr2.mox	100.2 KB	Video File	340
	340Mac_8_10 copy 210 - Copy (2)\ballatr2.mox	100.2 KB	Video File	340
	340Mac_8_1013 - Copy (2)\ballatr2.mox	100.2 KB	Video File	340
	340Mac_8_1013 - Copy (2) - Copy copy\ballatr2.mox	100.2 KB	Video File	340
	340Mac_8_10 copy 210 - Copy (2) - Copy\ballatr2.mox	100.2 KB	Video File	340
	340Mac_8_1013 - Copy - Copy (2)\ballatr2.mox	100.2 KB	Video File	340

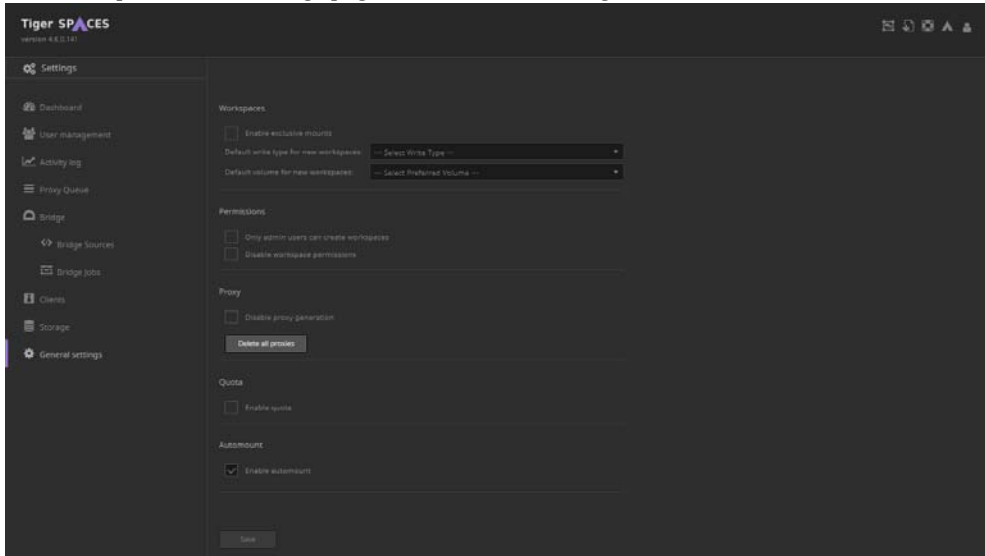
Note: Proxy Queue menu is not available, if a Tiger Spaces administrator has disabled the generation of proxy media.

3. In the Proxy Queue page, do one of the following:
 - To pause the proxies generation, in the upper right corner of the web interface click the Pause button .
 - To resume the proxies generation, in the upper right corner of the web interface click the Resume button .

Configure Tiger Spaces

To delete all proxies in the depot:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click General Settings.



3. Under Proxy, click Delete All Proxies.
4. Confirm that you want to delete all proxies.

To clear the proxies of a workspace:

1. Log in to the web interface with an administrative account.
2. In the web interface, select a workspace in the list and in the workspace menu , click Clear proxies .
3. Click Continue to confirm that you want to delete the proxies of this workspace.

Configure and Manage Tiger Bridge Integration

Note: To fully benefit from Tiger Bridge's integration into Tiger Spaces, you must run version 4.0.11 or above of Tiger Bridge.

When you want to manage workspaces' data lifecycle with Tiger Bridge, you must enable support for Tiger Bridge on the volumes/network shares hosting a workspaces depot and also to configure the parameters of the data lifecycle management mechanisms you want to use. While you need to access the Tiger Bridge interface in order to configure more advanced settings such as space

reclaiming, data archiving, active sync, data versioning, etc. you can use the Tiger Spaces interface to:

- add or remove the depot on a volume/share as a source
- pair a source with a target
- configure global replication policy or overwrite it for a specific pair source and target
- configure a workspace as a location, excluded from Tiger Bridge replication
- perform manual data lifecycle operations on a workspace - manually replicate or archive data, reclaim space, retrieve data from the target, etc.
- monitor the Tiger Bridge status of a workspace - replicated, archived, reclaimed
- view Tiger Bridge statistics about data

Enable / Disable Tiger Bridge Support

To manage workspaces' data with Tiger Bridge, you need to add as a Tiger Bridge source the depot on each Tiger Store-managed volume or network share, containing workspaces. As the workspaces depot on the volume/share is hidden in Windows Explorer, to enable lifecycle management of workspaces through Tiger Bridge, you must add the whole volume/share as a source. In contrast, when you perform the operation through Tiger Spaces, only the folder containing the depot on the respective volume/share is added as a source and any data outside the depot is not managed.

Add Network Share Source Prerequisites

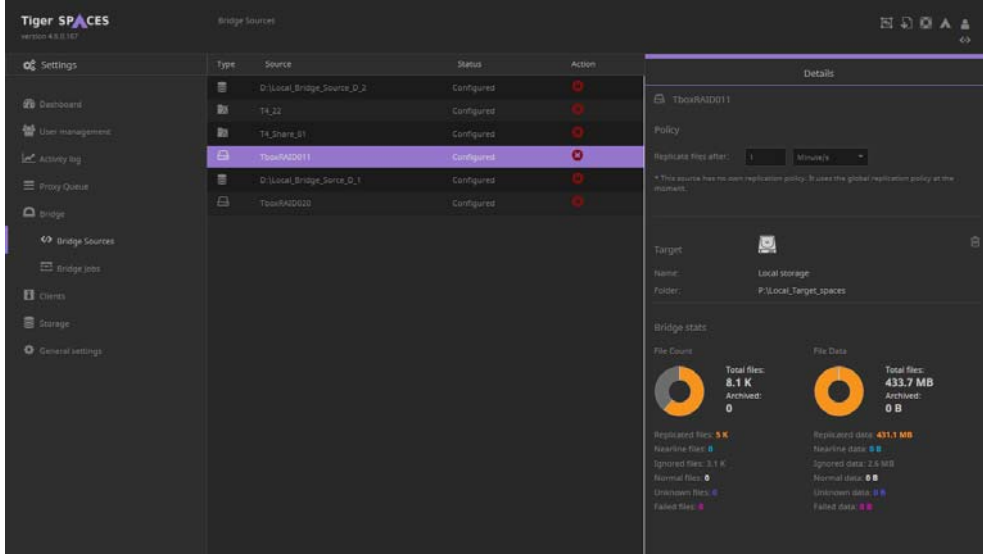
The steps for adding a Tiger Store-managed volume or a share as a source are identical, with the only difference that for each network share you also need to provide a separate folder on a locally mounted volume. This folder is used as a control location and contains a copy of each file on the NAS source in the form of a stub file. The control folder acts as a gateway between the NAS source and the target. Thus, each time a file is replicated, replaced by a stub file or retrieved back on the source, this file goes through the control folder.

Configure Tiger Spaces

To add a volume/share as a Tiger Bridge source:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click Bridge and then Bridge Sources below it.

The page lists all already added sources. Clicking a source in the list, displays information about its replication policy, the target it is paired with as well as Tiger Bridge statistics about data on that source.



The screenshot shows the Tiger SPACES web interface. On the left is a sidebar with navigation links: Settings, Dashboard, User management, Activity log, Proxy Queue, Bridge, Bridge Sources, Bridge jobs, Clients, Storage, and General settings. The 'Bridge Sources' link is selected. The main area displays a table of Bridge Sources:

Type	Source	Status	Action
D:\Local_Bridge_Source_D_2		Configured	
T4_22		Configured	
T4_Share_01		Configured	
TboxRADIO11		Configured	
D:\Local_Bridge_Source_D_1		Configured	
TboxRADIO020		Configured	

Clicking on 'TboxRADIO11' opens a 'Details' panel on the right. It shows the replication policy (1 minute), target (Local Storage, P:\Local_Target_spaces), and bridge stats. The stats are divided into File Count and File Data, each with a donut chart and a table of metrics.

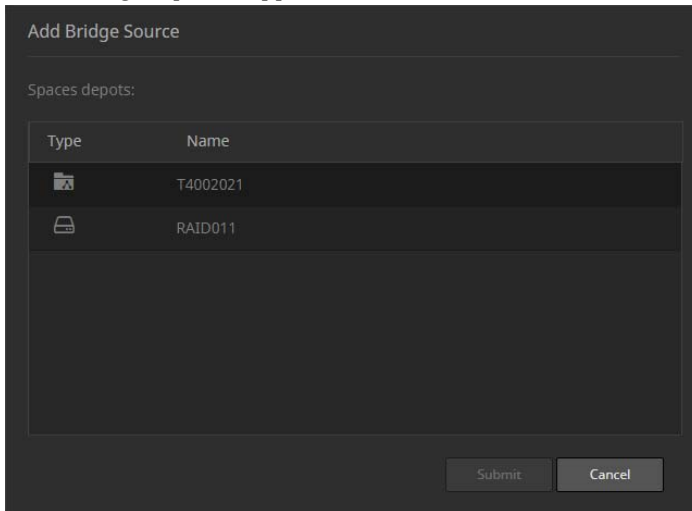
Metric	Value
Total files	8.1 K
Archived	0
Replicated files	5 K
Reactive files	0
Ignored files	3.1 K
Normal files	0
Unknown files	0
Failed files	0

Metric	Value
Total files	433.7 MB
Archived	0 B
Replicated data	433.1 MB
Reactive data	0 B
Ignored data	2.5 MB
Normal data	0 B
Unknown data	0 B
Failed data	0 B

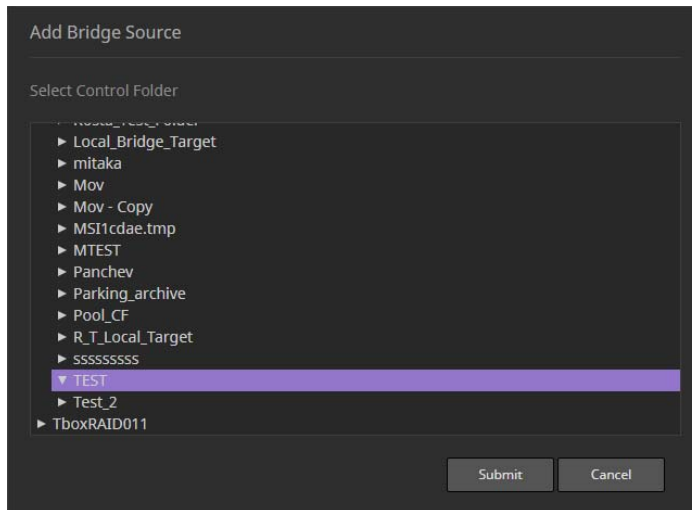
Important: As Tiger Spaces interfaces the actual configuration on the computer running Tiger Bridge, the list may display sources, which do not contain a Tiger Spaces depot.

3. In the upper right corner of the web interface click the Add Bridge source button .

- The Add Bridge Source dialog lists all Tiger Store-managed volumes and/or network shares with enabled Tiger Spaces support.



- Select a Tiger Store-managed volume  or a network share  in the list and click Submit.
- (network shares only) Select a folder on a locally mounted volume, which to be used as a control location for the network share source and then click Submit.



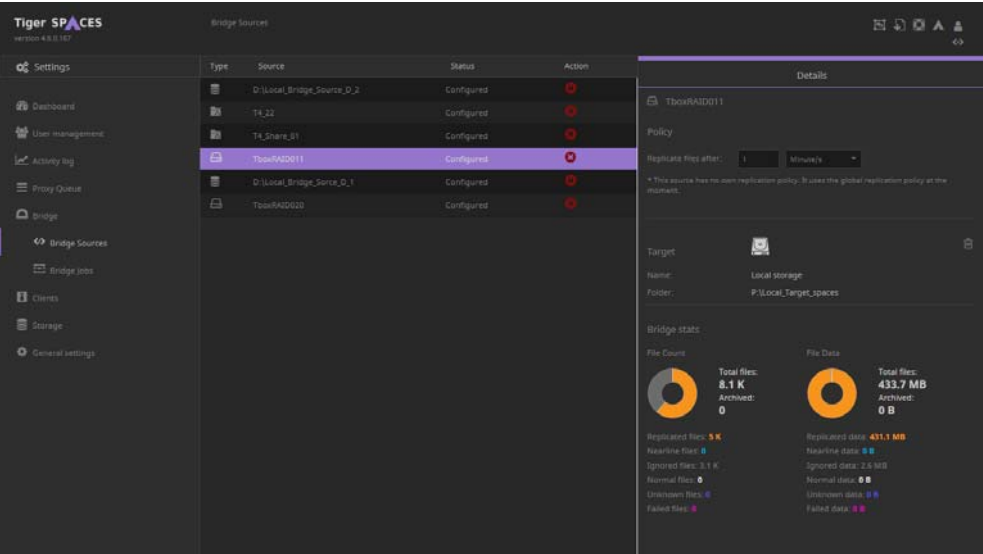
The new source appears on the Bridge Sources page with “Unconfigured” status. To complete its configuration, you must pair it with a target.

Configure Tiger Spaces

To remove a source:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click Bridge and then Bridge Sources below it.

The page lists all already added sources. Clicking a source in the list, displays information about its replication policy, the target it is paired with as well as Tiger Bridge statistics about data on that source.



The screenshot shows the Tiger SPACES web interface. On the left is a sidebar with navigation links: Settings, Dashboard, User management, Activity log, Proxy Queue, Bridge, Bridge Sources (selected), Bridge jobs, Clients, Storage, and General settings. The main area is titled 'Bridge Sources' and contains a table with columns: Type, Source, Status, and Action. The table lists several sources, with 'TboxRADIO11' highlighted. To the right of the table is a 'Details' panel for the selected source. It shows the replication policy (1 minute), the target (Local storage, P:\Local_Target_spaces), and bridge statistics for file counts and file data.

Type	Source	Status	Action
D:\Local_Bridge_Source_D_2	T4_22	Configured	
T4_Share_01	T4_Share_01	Configured	
TboxRADIO11	TboxRADIO11	Configured	
D:\Local_Bridge_Source_D_1		Configured	
TboxRADIO020		Configured	

Details for TboxRADIO11

Policy
Replicate files after: 1 minute

Target
Name: Local storage
Folder: P:\Local_Target_spaces

Bridge stats

File Count	File Data
Total files: 8.1 K Archived: 0	Total files: 433.7 MB Archived: 0 B
Replicated files: 5 K	Replicated data: 433.1 MB
Replanned files: 0	Replanned data: 0 B
Ignored files: 3.1 K	Ignored data: 2.5 MB
Normal files: 0	Normal data: 0 B
Unknown files: 0	Unknown data: 0 B
Failed files: 0	Failed data: 0 B

Important: As Tiger Spaces interfaces the actual configuration on the computer running Tiger Bridge, the list may display sources, which do not contain a Tiger Spaces depot.

3. Next to a source in the list, click the Remove source button  and confirm when prompted.

Pair a Source with a Target

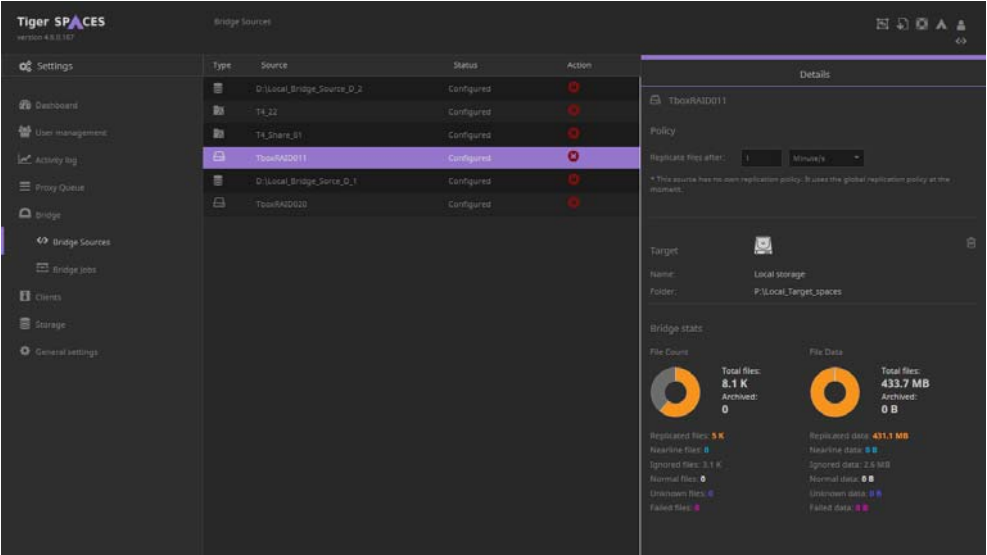
To complete the configuration of a source, you must pair it with a target. Refer to the latest version of the Tiger Bridge Administration Guide for details about supported targets and the prerequisites about each of them.

To change the target of a source, you need to delete the previously assigned target and then pair the source with a new target following the same steps.

To pair a source with a target:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click Bridge and then Bridge Sources below it.

The page lists all already added sources.



Type	Source	Status	Action
Local	D:\Local_Bridge_Source_D_2	Configured	
Local	T4_22	Configured	
Local	T4_Share_01	Configured	
Local	TboxRAID011	Configured	
Local	D:\Local_Bridge_Source_D_1	Configured	
Local	TboxRAID020	Configured	

Details for TboxRAID011

Policy
Replicate files after: 1 Minute's
* This source has no own replication policy. It uses the global replication policy on the platform.

Target
Name: Local storage
Folder: P:\Local_Target_spaces

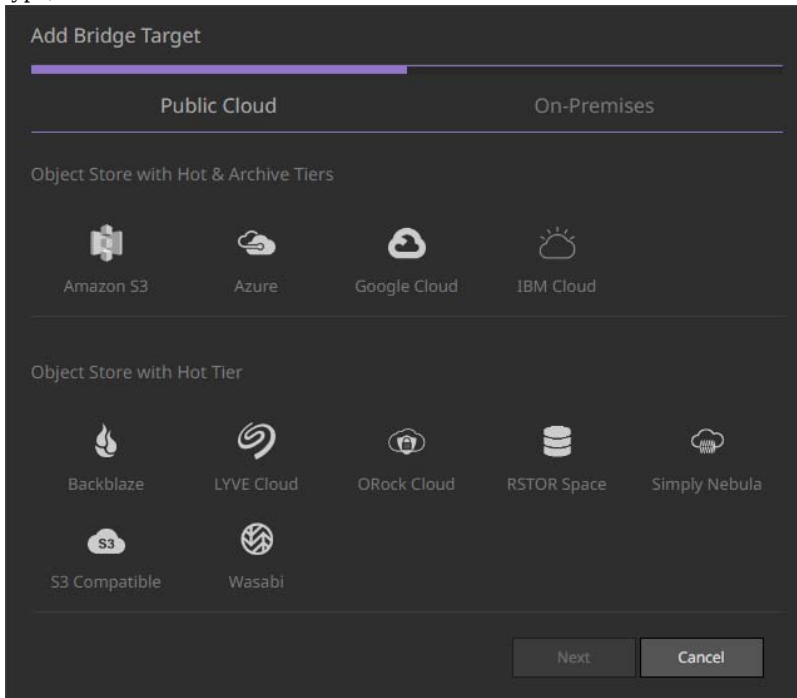
Bridge stats

File Count	File Data
Total files: 8.1 K Archived: 0	Total files: 433.7 MB Archived: 0 B
Registered files: 5 K Newline files: 0	Registered data: 433.7 MB Newline data: 0 B
Ignored files: 3.1 K Normal files: 0	Ignored data: 2.5 MB Normal data: 0 B
Unknown files: 0 Failed files: 0	Unknown data: 0 B Failed data: 0 B

3. Select a source with Unconfigured status in the list and below Target in the Details pane, click Add.

Configure Tiger Spaces

4. In the Add Bridge Target dialog, click the Public Cloud or On Premises tab and select the target type, then click Next.



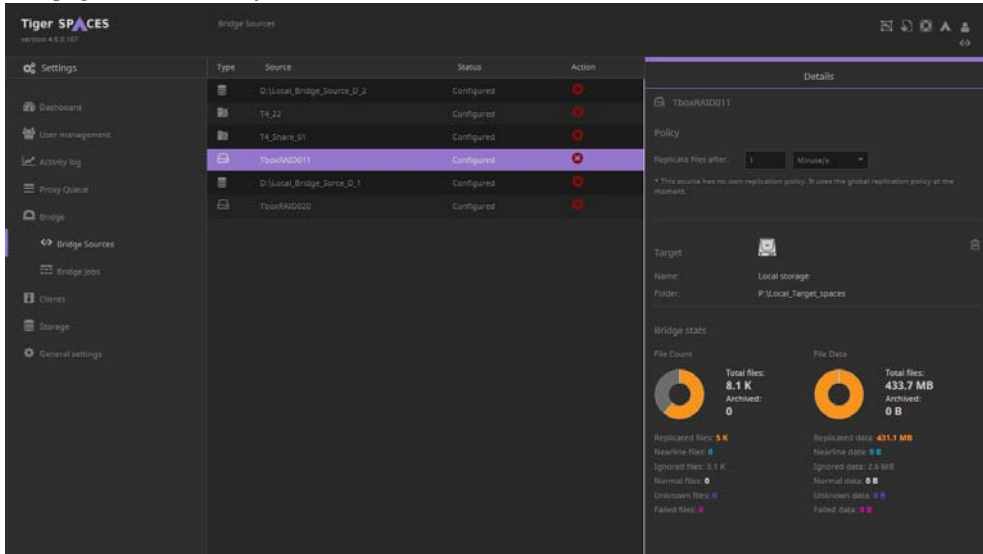
5. Fill in the required target details and then click Submit.

The target is paired with the selected source. You can view details about the target in the Details pane. If there is global replication policy configured either in Tiger Bridge or in Tiger Spaces, all data in the workspaces depot will be replicated according to its parameters.

To remove a target:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click Bridge and then Bridge Sources below it.

The page lists all already added sources.



The screenshot shows the Tiger SPACES web interface. On the left is a sidebar with navigation links: Settings, Dashboard, User management, Activity log, Proxy Queue, Bridge, Bridge Sources (selected), Bridge jobs, Clients, Storage, and General settings. The main area is titled 'Bridge Sources' and contains a table with columns: Type, Source, Status, and Action. The table lists several sources, with 'TboxRADIO11' highlighted. To the right of the table is a 'Details' pane for the selected source. It shows a 'Policy' section with a 'Replicate files after' dropdown set to '1 Minute's'. Below this is a 'Target' section showing 'Name: Local storage' and 'Folder: P:\Local_Target_spaces'. The 'Bridge stats' section displays two donut charts: 'File Count' (Total files: 8.1 K, Archived: 0) and 'File Data' (Total files: 433.7 MB, Archived: 0 B). Below the charts are various status indicators like 'Replicated files: 5 K', 'Newline files: 0', 'Ignored files: 3.1 K', 'Normal files: 0', 'Unknown files: 0', and 'Failed files: 0'.

3. Select the source whose target you want to remove and in the Details pane click the Remove target button  and then confirm that you want to remove the target, when prompted.

Configure Data Replication Policy

To allow Tiger Bridge to automatically replicate files from the source to the target, you should configure a data replication policy. It operates using just one parameter - for how long a file should not have been modified in order Tiger Bridge to queue it for replication.

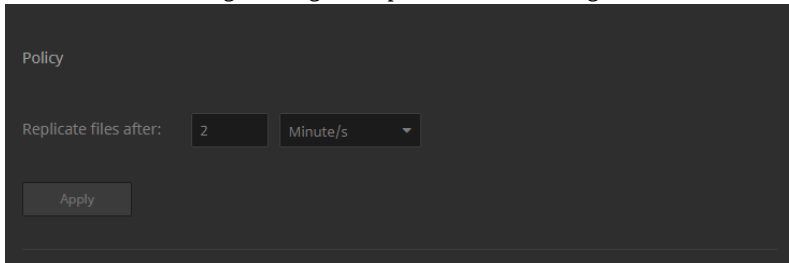
Using the Tiger Spaces interface, you can configure a global replication policy, valid for all sources. You can also overwrite the global replication policy for any specific source and thus make it use different parameters for data replication.

Important: Keep in mind that if Tiger Bridge manages other pairs of source and target, on which Tiger Spaces is not configured, changing the global replication policy will affect these pairs too.

Configure Tiger Spaces

To configure global replication policy:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click Bridge.
3. In the left pane under Policy, configure for how long a file on the source should not have been modified in order Tiger Bridge to replicate it on the target and then click Apply.



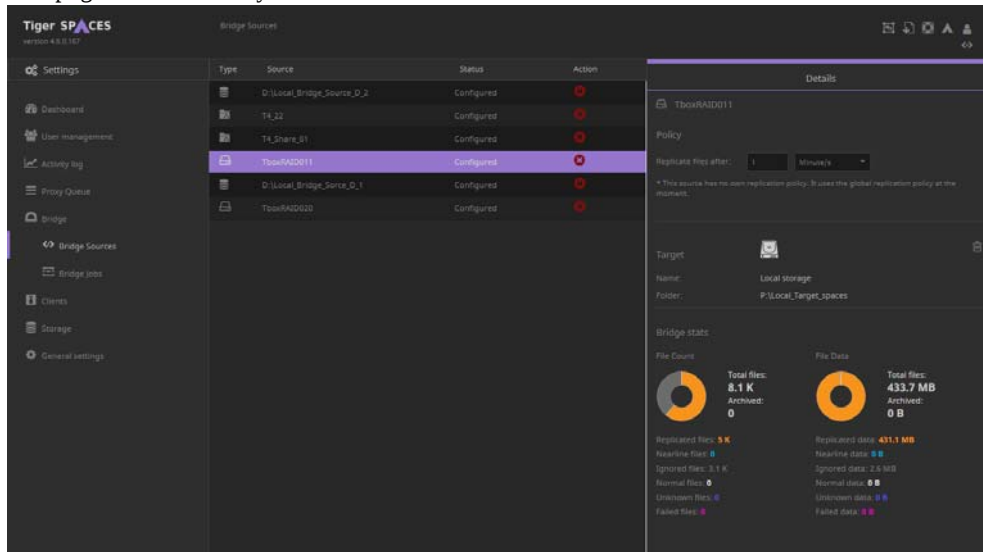
Policy

Replicate files after: Minute/s

To overwrite the global replication policy for a source:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click Bridge and then Bridge Sources below it.

The page lists all already added sources.



Type	Source	Status	Action
Folder	D:\Local_Bridge_Source_D_3	Configured	
Folder	TK_22	Configured	
Folder	TK_Share_31	Configured	
Folder	TboxRADD011	Configured	
Folder	D:\Local_Bridge_Source_D_1	Configured	
Folder	TboxRADD020	Configured	

TboxRADD011 Details

Policy: Replicate files after: Minute/s

Target: Local storage
Folder: P:\Local_Target_spaces

Bridge stats

File Count	File Data
Total files: 8.1 K Archived: 0	Total files: 433.7 MB Archived: 0 B
Replicated files: 5 K	Replicated data: 431.1 MB
Nearline files: 0	Nearline data: 0 B
Ignored files: 3.1 K	Ignored data: 2.6 MB
Normal files: 0	Normal data: 0 B
Unknown files: 0	Unknown data: 0 B
Failed files: 0	Failed data: 0 B

3. Select the source in the list and in the Details pane on the right, under Policy configure for how long a file should not have been modified in order Tiger Bridge to automatically replicate it, then click Apply.

Policy

Replicate files after: Hour/s

* This source has no own replication policy. It uses the global replication policy at the moment.

Important: To make the source use the global replication policy, under Policy click *Reset* and when prompted, confirm that you want the source to use the global replication policy.

Exclude a Workspace from Automatic Tiger Bridge Operations

To prevent Tiger Bridge from automatically managing a workspace's data, you should exclude that workspace. Once a workspace is excluded, you can still manually manage its data with Tiger Bridge. To let Tiger Bridge resume automatically managing its data, simply include it again.

To exclude a workspace from automatic Tiger Bridge operations:

In the web interface, select a workspace in the list and in the workspace menu , click the Exclude from replication button .

Note: You can view a list of all excluded workspaces in Settings | Bridge page, under Excluded Paths.

To enable automatic Tiger Bridge operations on an excluded workspace:

Do one of the following:

- In the web interface, select a workspace in the list and in the workspace menu , click the Enable replication button .
- In Settings | Bridge page, under Excluded paths, click the remove path  button next to a workspace in the list.

Excluded paths		
Volume	Path	Action
T4_Share_01	C2	
T4_Share_01	666	
T4_Share_01	6t	

Manually Perform Tiger Bridge Operations on a Workspace

You can manually perform Tiger Bridge operations on all data in a specific workspace, even if the workspace is excluded from automatic Tiger Bridge operations. The respective commands are available only to files/folders in the workspace to which they apply i.e. you cannot issue the “Reclaim space” command for a file, which has not been replicated yet.

To manually perform Tiger Bridge operations on data in a workspace:

1. Log in to the Tiger Spaces web interface as an administrator.
2. In the web interface, select a workspace in the list and in the workspace menu  , do one of the following:
 - Click  Replicate, to manually replicate all data in the workspace.
 - Click  Reclaim space, to manually replace all replicated data in the workspace with stub files.
 - Click  Retrieve data, to manually restore all stub files in the workspace from the target.
 - Click  Move to archive, to manually move all replicated data in the workspace to the archival tier of the target.
 - Click  Rehydrate from archive, to manually move all offline files in the workspace from the archival tier of the target to the hot/cool tier.

Tip: You can perform the operation on multiple workspaces simultaneously by selecting them in the list while holding down the Ctrl or Shift keys on your keyboard or by using the Up or Down arrows on your keyboard and selecting the users using the space bar, while holding down the Ctrl or Shift keys.

Monitor Tiger Spaces

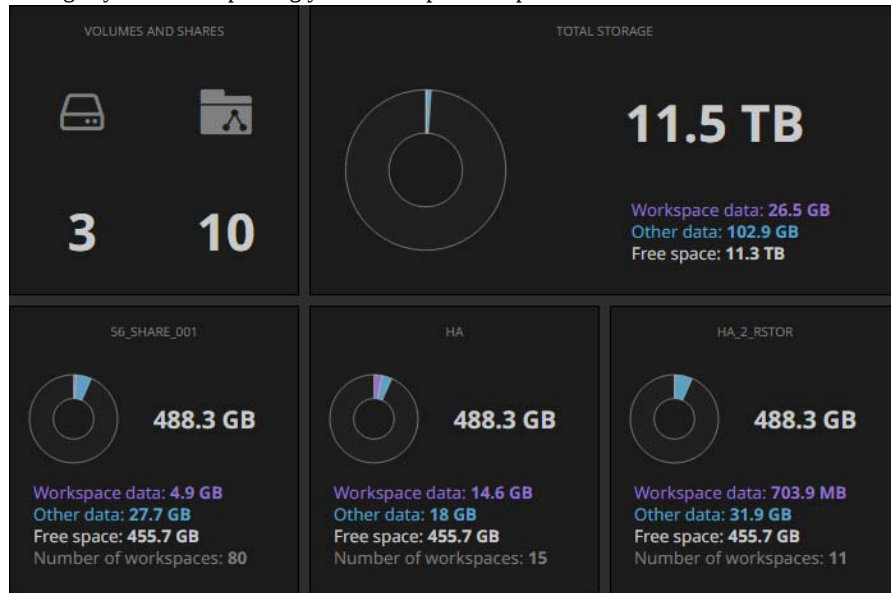
As an administrator of Tiger Spaces you can monitor statistics about each element of your Tiger Spaces environment:

- the storage systems comprising the workspaces depot and data on them
- the workspaces and data on them
- the connected client computers
- the users accessing the depot
- the high-availability cluster
- data managed by Tiger Bridge

You can view and download a detailed activity log, filtering it by various criteria. You can also download the list of all workspaces in the depot as a comma separated values (.csv) file.

Monitor Storage Statistics

Use the Dashboard of Tiger Spaces (Settings | Dashboard) to view the following statistics about the storage systems comprising your workspaces depot:



- number and type of storage systems on which Tiger Spaces support is enabled
- workspace data, other data, free space and number of workspaces on all storage systems in the depot
- workspace data, other data, free space and number of workspaces on each storage system

Workspaces Data Statistics

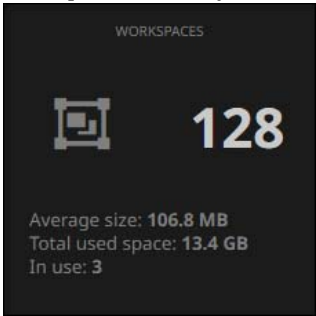
You can view detailed statistics about workspaces data at different levels - the workspaces depot, an individual storage system and a particular workspace.

Workspaces Statistics in the Depot

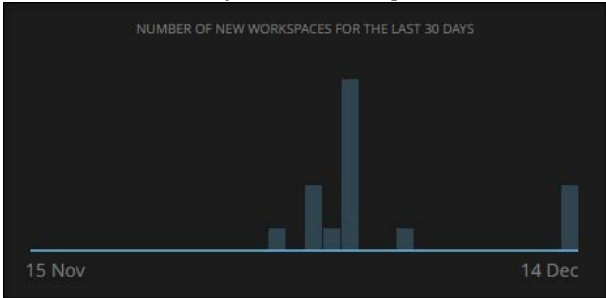
Use the Tiger Spaces Dashboard (Settings | Dashboard) to view the following statistics about workspaces in your depot:

Configure Tiger Spaces

- number, average size of a workspace, total used space on all storage systems, and number of workspaces currently mounted for viewing or editing



- the number of newly created workspaces in the last 30 days



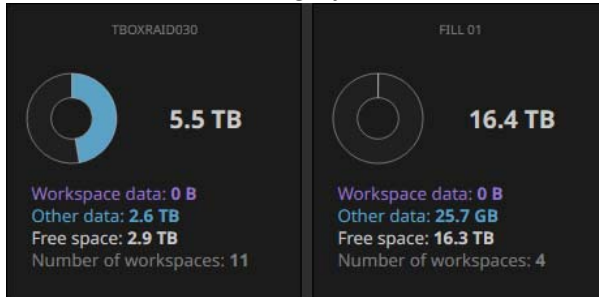
Tip: Hover your mouse over the graph to view the exact number of newly created workspaces for a specific date.

- a list of all workspaces currently mounted for viewing or editing

WORKSPACES IN USE				
Name ▲	State	Owner	Size	Volume
ISAN_AVID	In use	fill	0 B	Volume1
I~_22.06.09_14_33_37	In use	ccc	3 MB	Volume1
#vvv	In use	ccc	269.2 MB	56_share_001
000_ha	In use	ccc	8.2 MB	HA_2_RSTOR
123454321	In use	rrr	0 B	65
AVID	In use	fill	264.5 MB	HA

Workspace Statistics on a Storage System

You can use both the Tiger Spaces Dashboard and the details pane of a selected storage system (Settings | Storage) to view statistics about the number of workspaces, the amount of workspace and other data on the storage system as well as the free space on it.



Workspace Data Statistics

You can get statistics about the size, number of files and folders as well as the number and size of specific file types (video, audio, image, document, proxy media, other) of a select workspace in the Details tab of its Inspector pane.

Statistics						
Size: 2.4 MB		Files: 3		Folders: 3		
	Video	Audio	Images	Documents	Proxies	Other
Num	0	0	0	3	0	0
Size	0 B	0 B	0 B	2.4 MB	0 B	0 B

View Connected Client Computers

In the Clients page of the administrative interface (Settings | Clients) you can view a list of all currently connected client computers. You can sort the list of connected client computers by computer name, IP address and operating system.

Configure Tiger Spaces

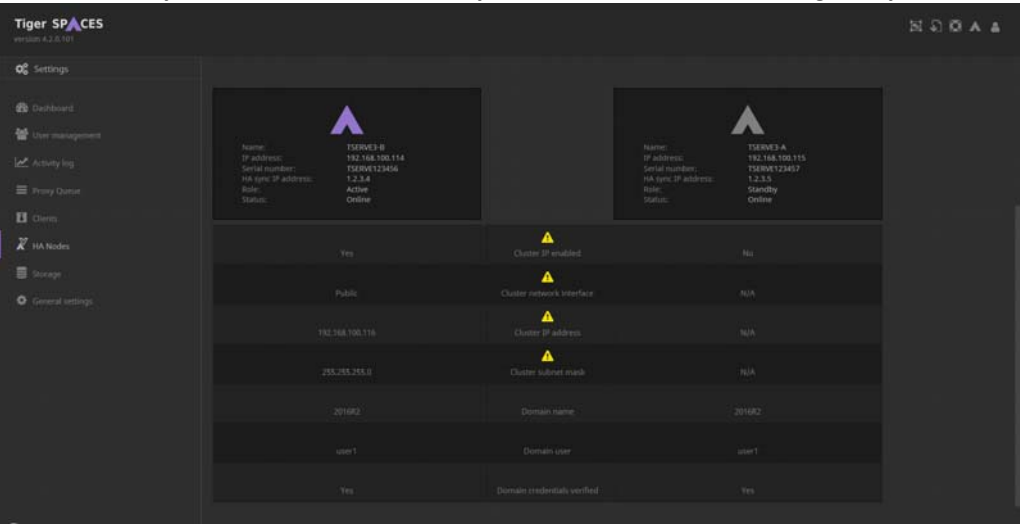
Note: Computers running the Tiger Spaces client driver, but currently not connected to the Tiger Spaces server are not displayed in the list.

Host ▲	IP	OS
10x644	10.200.9.75	Windows
10x645	10.200.9.24	Windows
SF51	10.200.4.63	macOS
TL57	10.200.4.94	macOS
W20226	10.200.9.118	Windows
WIN20161	10.200.9.71	Windows

Monitor High-Availability Cluster Synchronization

To be able to provide constant access to the workspaces depot, the two server nodes of your Tiger Spaces server must be online and have identical settings.

The HA Nodes page in the web interface shows you if both nodes are currently online, which of them is currently active and which is in standby mode, and whether their settings are synchronized.



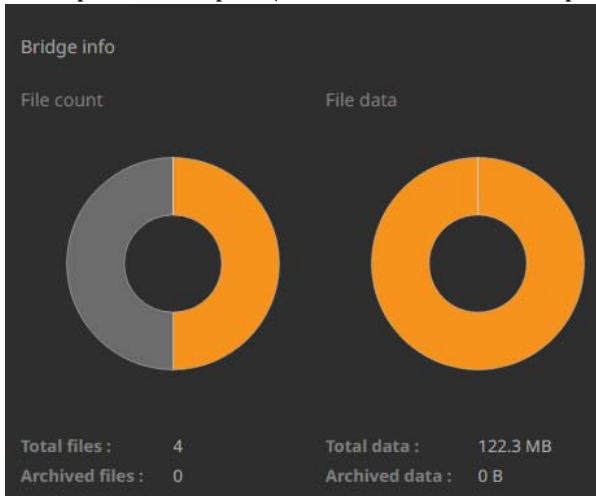
In case of conflicting settings (⚠️), you will have to start the Configuration Wizard on one or the other node and change the specific parameter in order to resolve the conflict. For details about accessing the Configuration Wizard, refer to “Initial Setup of Tiger Spaces” on page 17.

Monitor Tiger Bridge

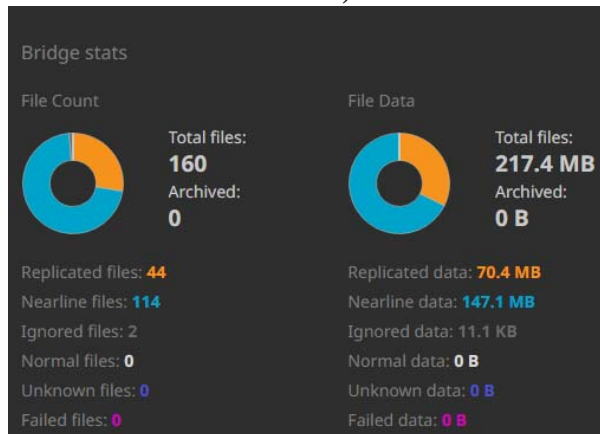
To view the Tiger Bridge status of a workspace, in list view simply check the Replicated and Nearline columns, displaying what percentage of data in the workspace is replicated and what percentage of data is replaced by stub files.

You can also view Tiger Bridge statistics about data:

- in a specific workspace (in the Details tab of the Inspector pane for a selected workspace)

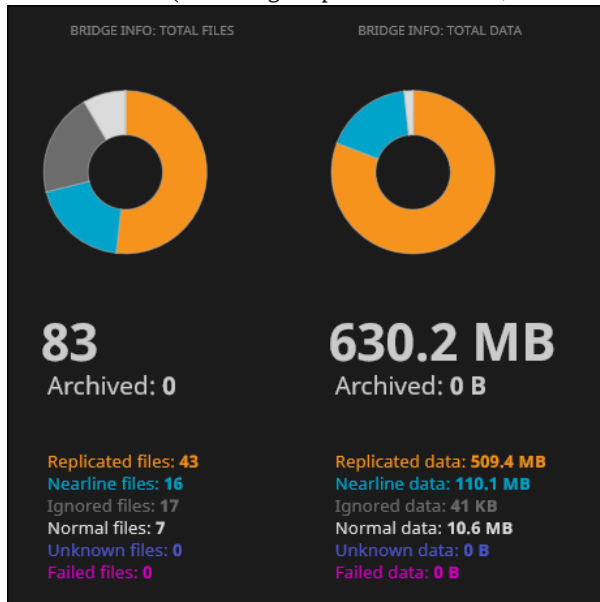


- on a specific volume/share (in the Tiger Spaces Dashboard, click Bridge | Bridge Sources and select a volume/share in the list).



Configure Tiger Spaces

- on all volumes (in the Tiger Spaces Dashboard, click Bridge)



Two pie charts display the distribution of data within the workspace, volume/share or all volumes depending on its Tiger Bridge status respectively by number of files and by data size.

Monitor Tiger Bridge Operations

You can monitor the status of each Tiger Bridge operation for a workspace started manually, through the Tiger Spaces web interface. For the purpose, click  Bridge jobs in the upper right corner of the web interface.

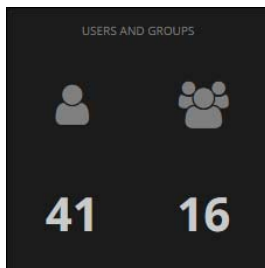
Status	Result	Action	Details	
Completed	Generic		ID:	14
Completed	Generic		Operation:	Replicate
Completed	Generic		Status:	Completed
Completed	Generic		Result:	Generic
Completed	Generic		Volume	Path
Completed	Generic		D:\	D:\TEST\mappings.json
Completed	Generic			
Completed	Generic			
Completed	Generic			
Completed	Generic			
Completed	Generic			
Completed	Generic			
Completed	Generic			
Completed	Generic			
Completed	Generic			
Completed	File is not suitable			
Completed	File is not suitable			
Completed	Generic			
Completed	Generic			

Tiger Spaces displays a list of all Tiger Bridge jobs initiated since the last restart of the Tiger Store server, starting from the newest. Each job represents a data lifecycle operation performed on all data in a given workspace - replicate data, reclaim space or move data to the archival tier of the target. To view the specific workspace on which a Tiger Bridge job is performed, simply select it in the list and view the path to the workspace in the right pane.

View User Statistics

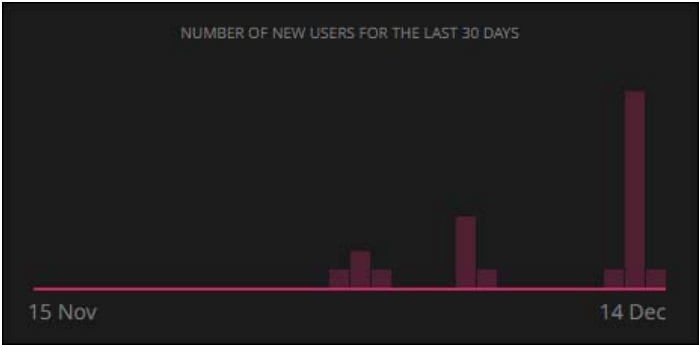
In the Tiger Spaces Dashboard (Settings | Dashboard) you can view general statistics about users accessing the workspaces depot:

- the number of users and groups



Configure Tiger Spaces

- the number of newly created users/groups within the last 30 days



Tip: Hover your mouse over the graph to view the exact number of newly created users for a specific date.

- the list of all users who have logged in to Tiger Spaces within the last 30 days with information about the number of sessions per each user

NUMBER OF LOGINS FOR THE LAST 30 DAYS		
User	Sessions	Last login ▲
x_group_1000_10	1	23-Nov-2022 15:03:09
x_group_10000_1	1	1-Dec-2022 10:35:57
x_group_50_1	4	1-Dec-2022 11:20:46
admin	124	12-Dec-2022 16:47:21

Monitor Individual Users

In the Inspector pane of a selected user (Settings | User Management), you can view the following detailed information about a selected user:

- (Details tab) the number of workspaces this user is owner of and their size, and a list of workspaces currently mounted by the user.
- (Settings/Member Information tab) the user role and the groups that user is member of
- (Workspaces tab) the list of workspaces the user owns and list of workspaces shared with the user

View Tiger Spaces Activity Log

The activity log of Tiger Spaces gives you information about the following actions:

Tiger Spaces settings — Tiger Spaces support enabled/disabled, permissions enabled/disabled, workspace quotas enabled/disabled.

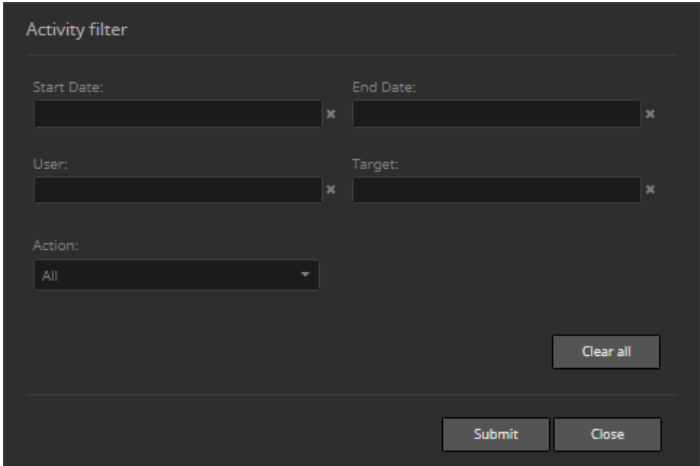
User/group — created, deleted, changed type, time of log in and log out.

Workspaces — created, deleted, mounted, dismounted, moved.

You can also filter the information displayed in the activity log by time period, user, target (user, storage system, workspace) and type of activity. You can also download the activity log as a comma-separated values (CSV) file.

To view the Tiger Spaces activity log:

1. Log in to the web interface with an administrative account.
2. In the upper right corner of the web interface, click Settings .
3. In the left pane, click  Activity log.
4. To filter the results, in the upper right corner of the web interface click the Filter button .



The image shows a dark-themed 'Activity filter' dialog box. It contains several input fields: 'Start Date:' and 'End Date:' at the top, each followed by a text input field and a small 'x' icon. Below these are 'User:' and 'Target:' fields, also with text inputs and 'x' icons. At the bottom left is an 'Action:' dropdown menu currently showing 'All'. At the bottom right is a 'Clear all' button. At the very bottom are 'Submit' and 'Close' buttons.

5. In the Activity Filter dialog, select the filters you want to apply and click Save.

Tip: To clear the filters, in the Activity Filter dialog click Clear All and then Save.

To export the activity log as a .csv file:

Note: Data in the .csv file is arranged the same way as it appears in the web interface. To rearrange it, before downloading the .csv file sort the desired columns in ascending or descending order by clicking their headers.

1. Log in to the web interface with an administrative account.
2. In the upper right corner of the web interface, click Settings .
3. In the left pane, click  Activity log.
4. (optional) Narrow down the entries in the downloaded activity log, using the Filter button .
5. In the upper right corner of the web interface, click the Export as csv button .

Depending on the settings of your web browser, the .csv file either downloads automatically to your default location for downloaded files or you are prompted to select a location yourself.

Download the Workspaces List as a .csv File

To facilitate you in keeping track of your projects, Tiger Spaces allows you to download the list of all workspaces in the depot as a comma separated values (.csv) file. The file contains the following information about each workspace in the depot:

- name
- owner
- size
- time when the workspace has been last accessed
- volume/network share on which the workspace is stored
- description
- tags
- size and percentage of data replicated by Tiger Bridge.

Note: Data in the .csv file is arranged the same way as it appears in the web interface. To rearrange it, before downloading the .csv file sort the desired column in ascending or descending order by clicking its header.

To download the workspaces list as a .csv file:

1. Log in to the web interface with an administrative account.
2. In the upper right corner of the web interface click the Export as csv button .

Depending on the settings of your web browser, the .csv file either downloads automatically to your default location for downloaded files or you are prompted to select a location yourself.



Working with Tiger Spaces

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<i>Edit Workspace Settings</i>	<i>113</i>

Connect to the Tiger Spaces Server

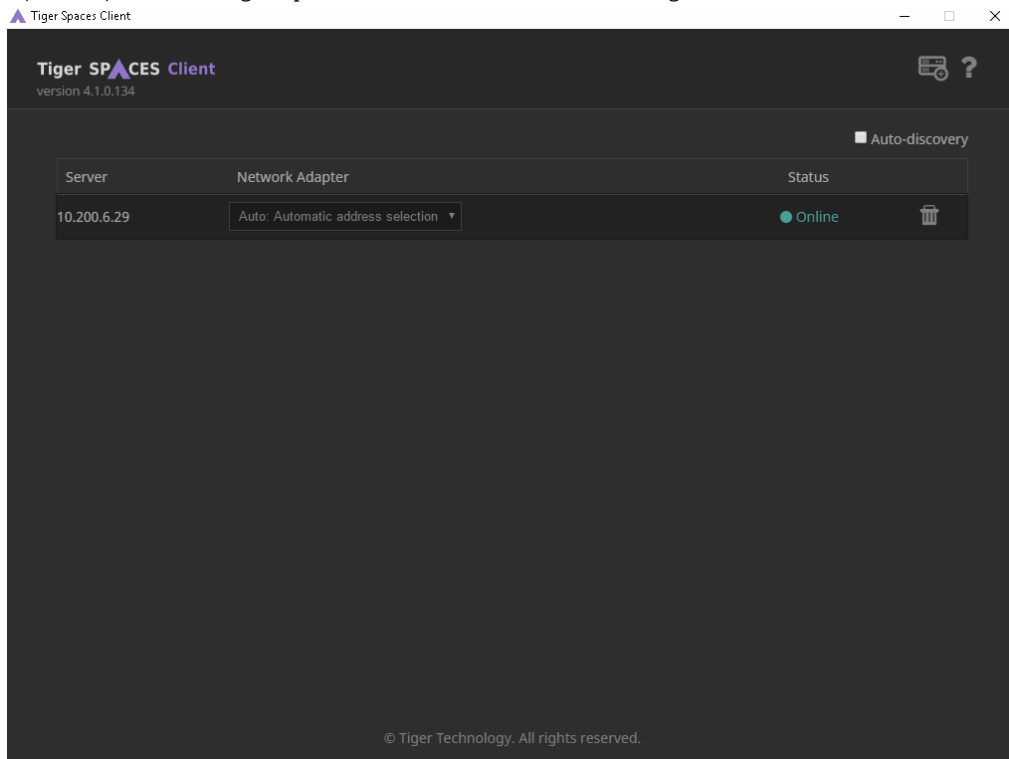
After installing the Tiger Spaces client driver on your computer, you must connect to the Tiger Spaces server in order to be able to work with workspaces. By default, Tiger Spaces's automatic discovery of available servers is turned off and you have to manually connect to the Tiger Spaces server(s) on your network. If the auto discovery option is turned on, Tiger Spaces automatically detects and connects you to all available servers on the network.

Note: When the automatic discovery option is turned on, Tiger Spaces searches for Tiger Spaces servers on the same network using the IP address of your network card it automatically detects.

To turn the auto discovery option on/off:

1. Display the Tiger Spaces Client window:

- (Windows) Click the Tiger Spaces tray application.
- (macOS) Click the Tiger Spaces menulet and then click Settings.



2. Do one of the following:

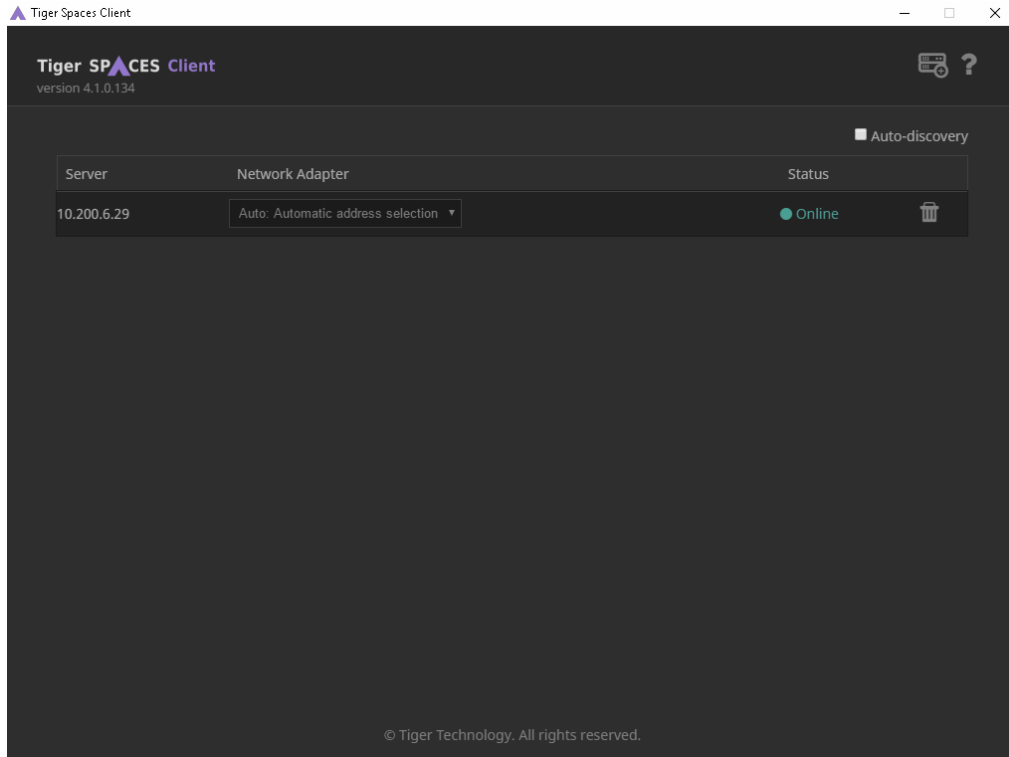
Connect to the Tiger Spaces Server

- Select the Auto-discovery check box, to allow Tiger Spaces to automatically detect Tiger Spaces servers on the network and connect your computer to them.
- Clear the Auto-discovery check box, to allow only manual connection to a Tiger Spaces server.

To manually connect to a Tiger Spaces server:

1. Display the Tiger Spaces Client window:

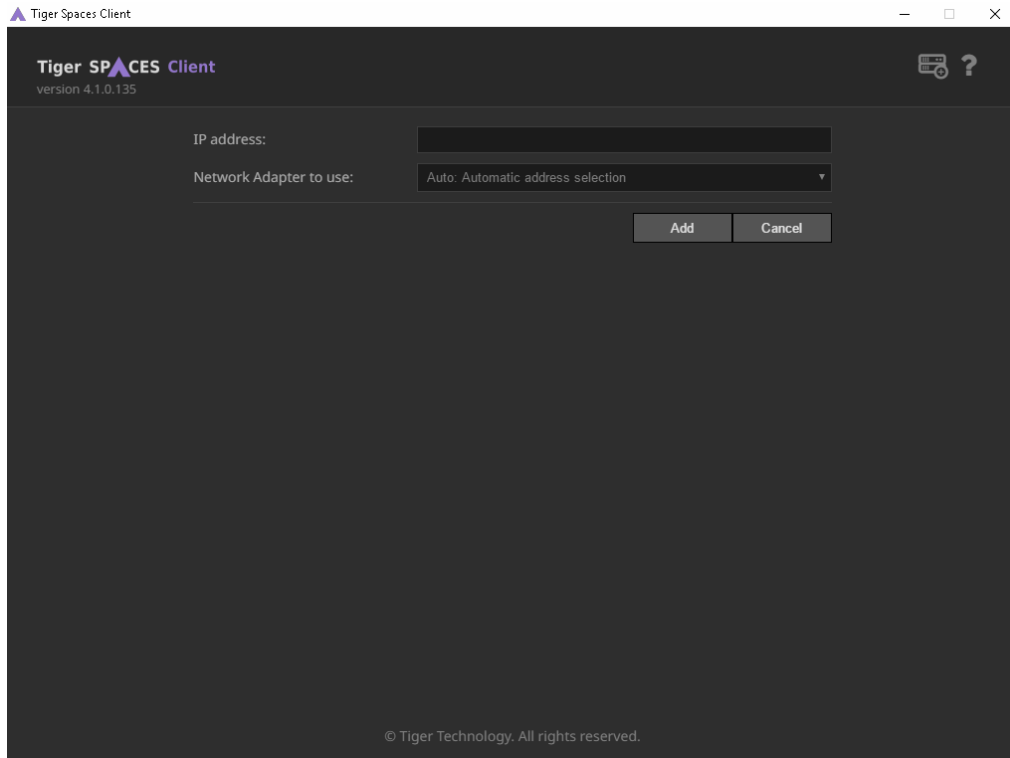
- (Windows) Click the Tiger Spaces tray application.
- (macOS) Click the Tiger Spaces menulet and then click Settings.



2. Click the Add Server button .

Working with Tiger Spaces

3. In the Add Server dialog, do the following:



- In IP address, enter the IP address of the Tiger Spaces server, to which you want to connect.

Important: *If high availability is activated, enter the cluster IP address.*

- (optional, if you have more than one network adapter) In Network Adapter to use drop-down box, select the IP address through which to connect to the Tiger Spaces server.

4. Click Add.

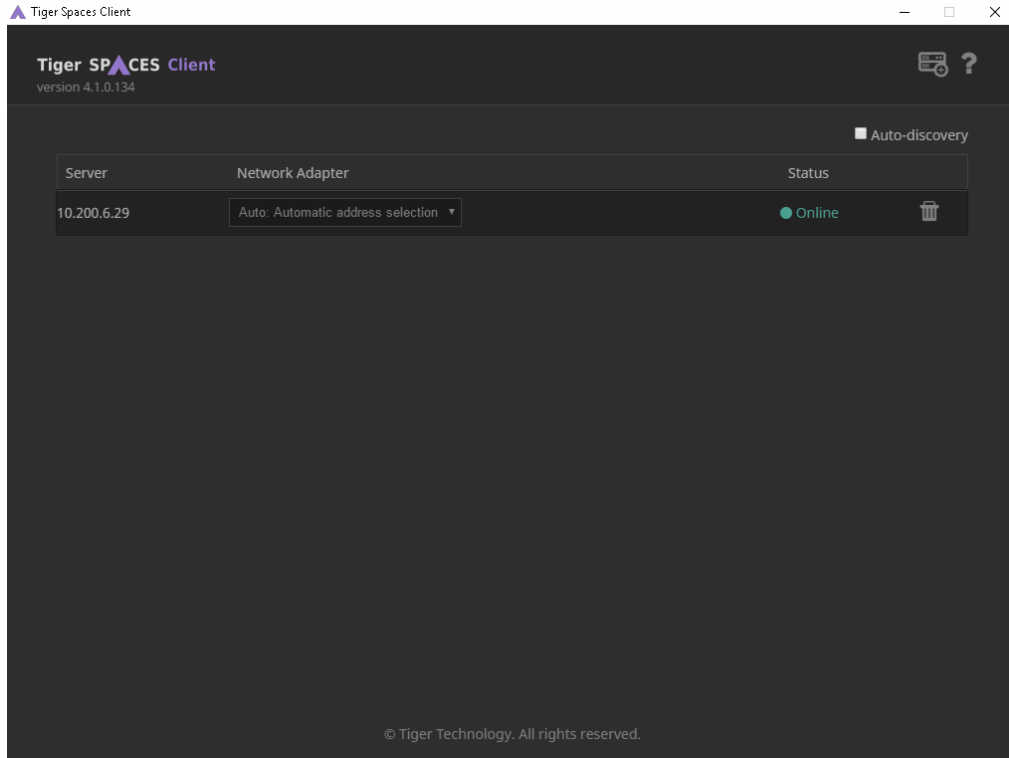
To disconnect from a Tiger Spaces server:

Important: *To disconnect from a Tiger Spaces server you must first dismount all mounted workspaces.*

1. Display the Tiger Spaces Client window:

- (Windows) Click the Tiger Spaces tray application.

- (macOS) Click the Tiger Spaces menulet and then click Settings.



2. In the Settings dialog, click the Delete button  next to a Tiger Spaces server in the list.

Note: The delete button is greyed out if the automatic discovery option is turned on.

Access the Web Interface of Tiger Spaces

To access the web interface, you have to log in to Tiger Spaces with an account that is either a member of the “Tiger Spaces Users”/“Tiger Spaces Admins” groups or any of their subgroups on the domain controller (when Tiger Spaces is deployed in Active Directory domain), or an internal Tiger Spaces user account, created by an administrator of Tiger Spaces (when Tiger Spaces is deployed in workgroup environment). See “Manage Tiger Spaces User Accounts and Groups” on page 44.

Note: If the “Tiger Spaces Users”/“Tiger Spaces Admins” groups do not exist on the domain controller, you have to manually create them. If you want to use the accounts in a different group on the domain controller, contact Tiger Technology support for assistance.

Until you manually log out, you remain logged in to Tiger Spaces, even if you close your web browser (unless you are using private browsing). If you log in to Tiger Spaces in a web browser, you remain logged

Working with Tiger Spaces

in to Tiger Spaces in each new tab/window of the same web browser you open. Login status verification is not carried out across web browsers i.e. if you log in to Tiger Spaces in one web browser, should you open the web interface in another web browser, you will have to log in anew.

To access the web interface from a Windows or macOS Tiger Spaces client:

1. Right-click the Tiger Spaces tray application/menulet and select Workspaces in the menu, then click the IP address of the Tiger Spaces server, whose web interface you want to access.
2. In the home page of the web interface, enter your user name and password in the respective fields and then click .

Note: If you are logging in to the web interface as a domain user, enter the user name without its domain i.e. “user” instead of “user@domain.com” or “domain\user”.

For more details about the interface, refer to “The Web Interface” on page 91.

To log out of Tiger Spaces:

Important: After you log out Tiger Spaces, all workspaces currently mounted for viewing or editing are automatically unmounted and all unsaved changes are lost.

1. In the upper right corner of the web interface, click the User icon  and then in the menu click Log out.

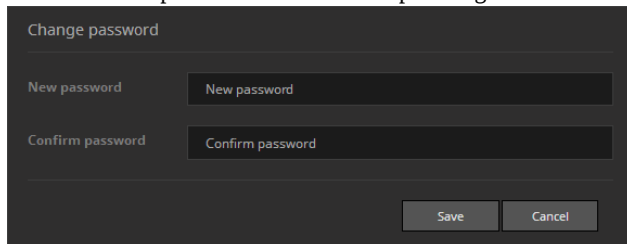
Change Your Password

Note: The change password functionality is available only for internal Tiger Spaces user accounts.

Beside Tiger Spaces administrators, each Tiger Spaces user can change the password of his/her Tiger Spaces account.

To change the password of your Tiger Spaces account:

1. Log in to the Tiger Spaces web interface.
2. In the upper right corner of the web interface, click the User icon  and then in the menu click Change password .
3. Enter the new password in the corresponding fields and click Save.

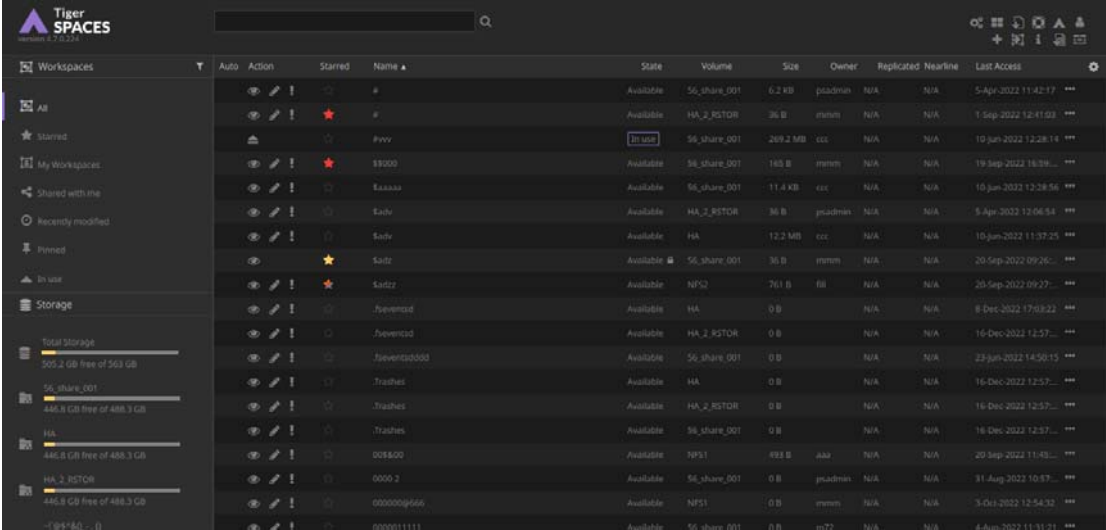


The image shows a dark-themed dialog box titled "Change password". It contains two input fields: "New password" and "Confirm password". Below these fields are two buttons: "Save" and "Cancel".

The Web Interface

The web interface of Tiger Spaces is the place for actually working with workspaces. By clicking the respective icon in the upper right corner of the web interface you can switch between list view  or grid view .

List View



Auto	Action	Starred	Name	State	Volume	Size	Owner	Replicated	Nearline	Last Access
			#	Available	S6_share_001	6.2 KB	psadman	N/A	N/A	5-Apr-2022 11:42:17
			#	Available	HA_2_R1TOR	36 B	mmmm	N/A	N/A	1-Sep-2022 12:41:03
			Pvvv	In use	S6_share_001	269.2 MB	ccc	N/A	N/A	10-Jun-2022 12:28:14
			\$3000	Available	S6_share_001	148 B	mmmm	N/A	N/A	19-Sep-2022 18:39:...
			Eaaaaa	Available	S6_share_001	11.4 KB	ccc	N/A	N/A	10-Jun-2022 12:28:56
			Eadv	Available	HA_2_R1TOR	36 B	psadman	N/A	N/A	5-Apr-2022 12:06:54
			Eadv	Available	HA	12.2 MB	ccc	N/A	N/A	10-Jun-2022 11:37:25
			Eadv	Available	S6_share_001	36 B	mmmm	N/A	N/A	20-Sep-2022 09:26:...
			Eadv	Available	NFS2	761 B	RR	N/A	N/A	20-Sep-2022 09:27:...
			fsventad	Available	HA	0 B	N/A	N/A	N/A	8-Dec-2022 17:08:22
			fsventad	Available	HA_2_R1TOR	0 B	N/A	N/A	N/A	16-Dec-2022 12:57:...
			fsventad000	Available	S6_share_001	0 B	N/A	N/A	N/A	23-Jun-2022 14:50:15
			Trashies	Available	HA	0 B	N/A	N/A	N/A	16-Dec-2022 12:57:...
			Trashies	Available	HA_2_R1TOR	0 B	N/A	N/A	N/A	16-Dec-2022 12:57:...
			Trashies	Available	S6_share_001	0 B	N/A	N/A	N/A	16-Dec-2022 12:57:...
			008A00	Available	NFS1	888 B	aaa	N/A	N/A	20-Sep-2022 11:40:...
			0000 2	Available	S6_share_001	0 B	psadman	N/A	N/A	31-Aug-2022 10:57:...
			00000000000	Available	NFS1	0 B	mmmm	N/A	N/A	3-Oct-2022 12:54:32
			00000111111	Available	S6_share_001	0 B	ccc	N/A	N/A	4-Jun-2022 11:31:34

By default, in list view each workspace is displayed with its name, state (Available or In use), owner, size. Additionally, the buttons in the first three columns of the list allow you to directly perform actions on a workspace, without having to open its page:

 — pin or unpin a mounted workspace (see “Pin a Workspace” on page 110).

Note: The Auto column displays the pin button only for workspaces mounted on your computer and if the automount option has not been disabled by a Tiger Spaces administrator.

 — mount the workspace with Read Only permissions (see “Mount a Workspace for Viewing” on page 107).

 — mount the workspace for editing (see “Mount a Workspace for Editing” on page 108).

 — mount the workspace exclusively i.e. not letting any other users mount it on their computer (see “Mount a Workspace for Editing” on page 108).

Note: The Action column displays the Mount Exclusively button only if exclusive mounts have not been disabled by a Tiger Spaces administrator.

Working with Tiger Spaces



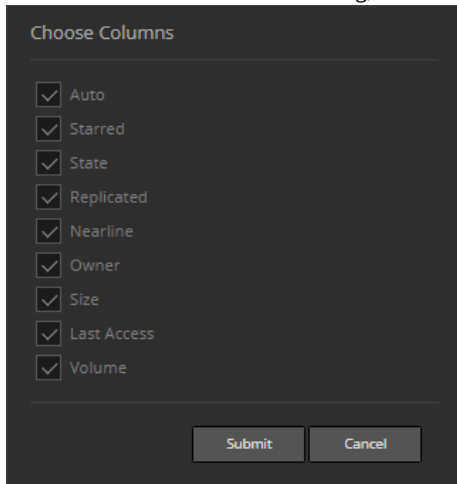
— unmount the workspace from your computer (see “Close a Workspace” on page 111).



— star a workspace or remove its star (see “Star a Workspace” on page 117).

You can sort the workspaces list in ascending/descending order by clicking the header of the respective column. You can also hide/unhide a column, following these steps:

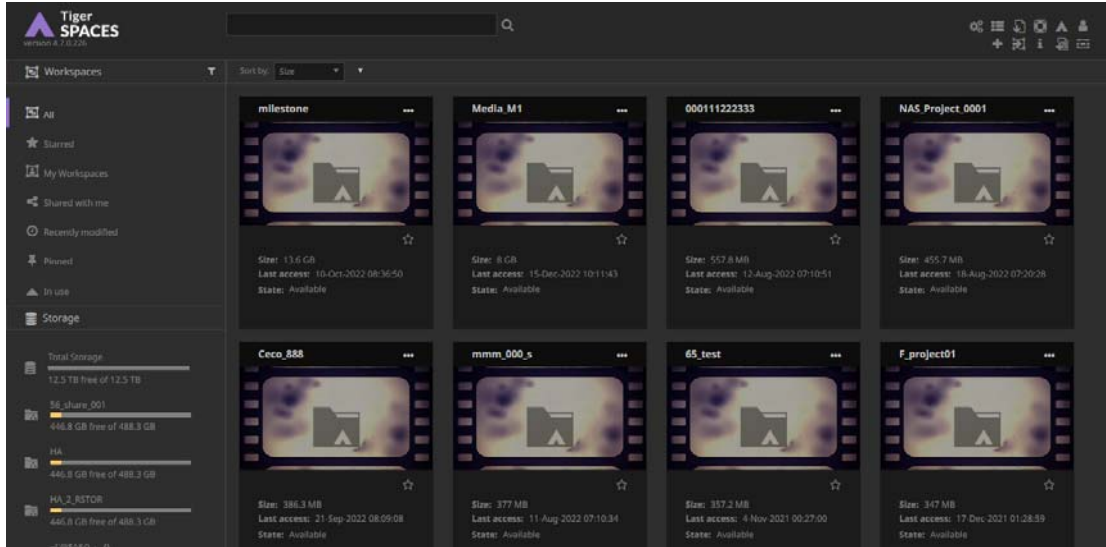
1. Click the cogwheel  in the upper right corner of the columns header .
2. In the Show/Hide Columns dialog, do one of the following:



- Select the check box of a column, to display that column in the workspaces list and then click Submit.
- Clear the check box of a column, to hide that column in the workspaces list and then click Submit.

In list view, you can select multiple workspaces simultaneously and perform an applicable operation on all of them (like export or delete the selected workspaces, for example). For the purpose, select them with your mouse, while holding down either the Ctrl or the Shift button. You can also select multiple workspaces in the list using just your keyboard by holding down either the Ctrl or the Shift button, while navigating within the list with the Up or Down arrows and selecting the workspaces by pressing the space bar.

Grid View



In grid view each workspace is displayed with a thumbnail displaying the workspace name, size, last access date and state. In addition, the thumbnail can display an image, selected by you and allowing to more easily discern between workspaces. For the purpose, you need to create a file in .jpg format named “workspace_thumbnail.jpg” with size up to 250 KB in the root of the workspace folder. If such file is not detected, Tiger Spaces displays a default image in the thumbnail of the workspace.

You can sort the list of workspaces’ thumbnails by star, name, owner, state, size, last access date, name of the volume/share on which the workspace is stored, replicated or nearline status. For the purpose, select the desired sorting criteria in the drop-down box above the list and sort the list in ascending or descending order, using the arrow beside it.

Filtering Displayed Workspaces

By default, in both list and grid view the interface lists all workspaces accessible to your account. By selecting the respective option in the left sidebar, you can filter the list of displayed workspaces:



All workspaces — lists all workspaces available for your account.



Starred — lists all workspaces starred by you or another user, which are available for your account.



My workspaces — lists just the workspaces you have created.



Shared with me — lists the workspaces shared with you for editing or previewing.

 **Recently modified** — lists all recently modified workspaces to which you have access.

 **Pinned** — lists the workspaces you have selected to remain mounted on your computer as long as you are logged on to Tiger Spaces.

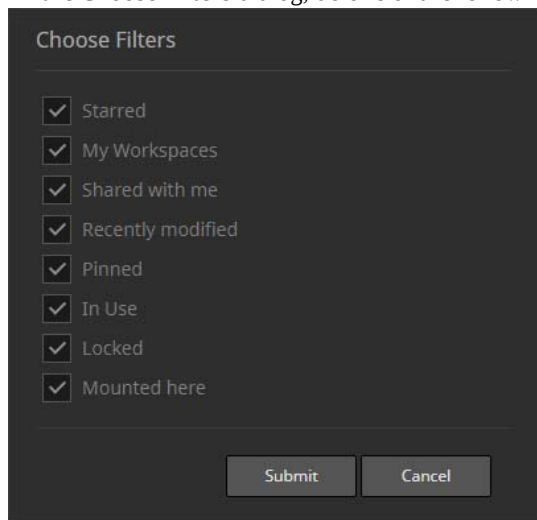
 **In use** — lists all workspaces that are currently mounted on a client computer.

 **Locked** — lists all your workspaces that are currently locked. If you have logged on to the Tiger Spaces web interface as an administrator the view lists all locked workspaces in the depot.

 **Mounted here** — lists all workspaces mounted on your computer only.

To display all available filters, you may have to use the sidebar scroll. You can adjust the filters displayed in the left pane, following these steps:

1. In the Workspaces sidebar, click the filters button .
2. In the Choose Filters dialog, do one of the following:



- To display a filter in the sidebar, select its check box and click Submit.
- To hide a filter in the sidebar, clear its check box and click Submit.

Single Workspace View

Tiger Spaces allows you to preview a workspace even if you are accessing the user interface from a non-Tiger Spaces client computer, as long as your account has permissions for the workspace.

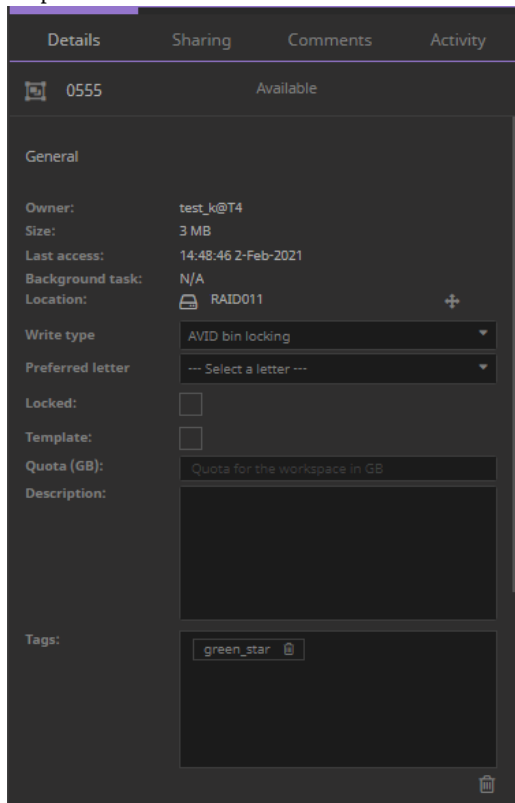
Tiger Spaces offers you two options for previewing a workspace:

Inspector pane — gives you general information about the workspace such as name, type, owner, size, number of files and folders, preferred mount point (if any), description, tags.

Workspace page — all details from the Inspector pane, including the hierarchical structure of the workspace and filters for browsing just media , objects  or other files .

To preview workspace information in the Inspector panel:

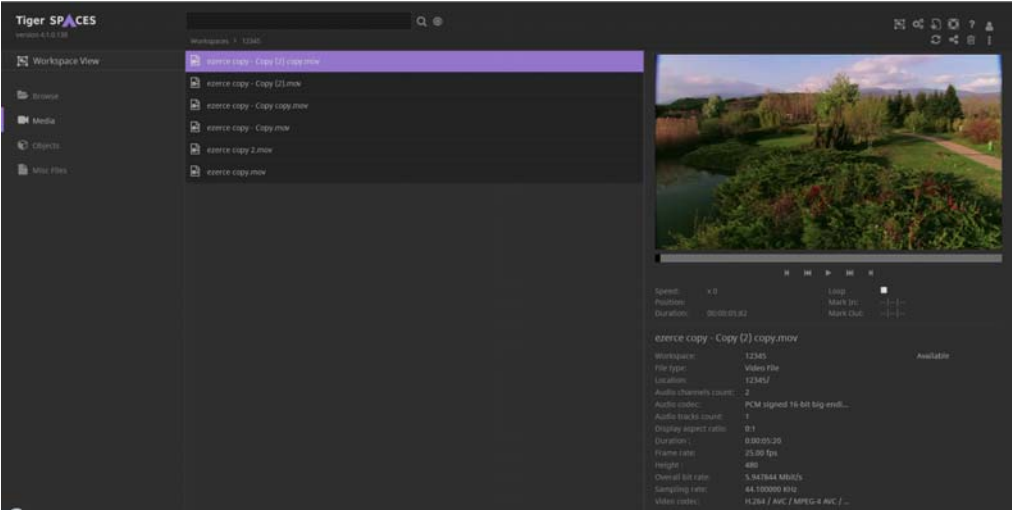
1. In the web interface, select a workspace in the list and click the Inspector button  in the upper right corner of the web interface.
2. In the Inspector panel, switch between Details, Sharing, Comments and Activity, by clicking the respective tab.



Working with Tiger Spaces

To preview a workspace’s contents:

- 1. In the web interface, double-click a workspace in the list to open its page.
- 2. Browse the workspace structure and contents, by the double-clicking a sub-folder or by filtering the contents of the workspace to view just media files or object files.

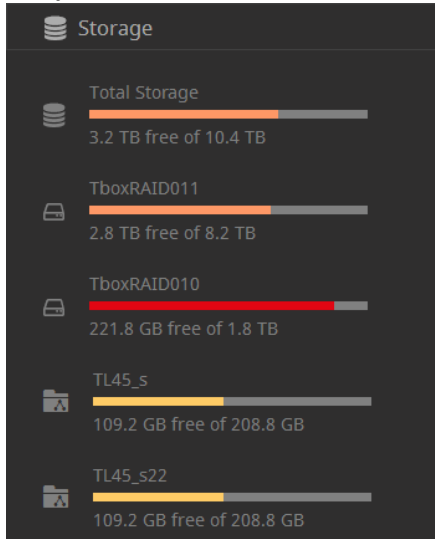


When previewing a video file, you can use the following video player controls:

Player control	Keyboard shortcut	Action
	space bar	play video track
	space bar	pause playback
	L	increase playback speed (press K to pause video playback and reset the speed to normal)
	J	decrease playback speed (press K to pause video playback and reset the speed to normal)
	right arrow	plays the video forward one frame at a time
	left arrow	plays the video backwards one frame at a time

General Information

In the left pane at the bottom of the main interface, you can view information about the file systems in the depot, to which your computer is connected. The used space bar color designates how full is the respective file system.



Below the Tiger Spaces logo, you can view the version of Tiger Spaces. The top band of the interface also allows you to search the depot (see “Searching The Workspaces Depot” on page 97) and displays controls for workspace management, depending on the current selection (see “Working with Workspaces” on page 100).

Searching The Workspaces Depot

You can find workspaces and data in them, using the Tiger Spaces search engine. Tiger Spaces displays results based on workspace name, description, tags and star color, but can also search within the workspaces contents - displaying as results metadata generated by the parsers (file name, format, video/ audio properties, etc.). Tiger Spaces cannot display results based on workspace's sub-folder name.

Note: *Tiger Spaces parses each workspace, which has been mounted for editing, only when it is dismounted. You can also force the parsing of a workspace by rescanning it.*

When initiating a search as an administrator, Tiger Spaces displays results within all workspaces in the depot. When the search is initiated by a user, Tiger Spaces searches only in the workspaces that user has access to.

Working with Tiger Spaces

All search results are sorted in alphabetical order. You can filter the results by choosing to display just media results , just objects , just miscellaneous files  or just tags  by selecting the respective search filter in the left pane.

The search engine of Tiger Spaces also utilizes “find as you type” feature, which displays matching results with each keystroke, but the results are limited only to workspace metadata such as name, description, owner, tags, etc. Also, search results displayed before you press Enter, cannot be filtered by media, objects, files and tags.

You can use wildcards to expand your search:

- ‘_’ for a random single character (example: ‘s_mple’ finds ‘sample’ and ‘simple’, etc.)
- ‘%’ for a random string of characters (example: ‘l%t’ finds ‘list’, ‘lot’, ‘loft’, etc.)

Tip: To use the above symbols not as wildcards, include them in your search in square brackets (example: ‘draft[_]September’ finds ‘draft_September’).

You can use a prefix in your query to narrow your search to:

ws: — workspaces only (example: ws:dog will display only workspaces containing “dog”).

md: — media only (example: md:cat will display only media results containing “cat”).

obj: — objects only (example: obj:mouse will display only objects containing “mouse”).

fl: — files only (example: fl:cockroach will display only files containing “cockroach”).

Check the table below for details about what and how can be searched in Tiger Spaces:

searches for results in	query format* / valid query example	Admin inter- face	User inter- face	Case sensi- tive	Exact match *
workspace name (Cat 123)	alphanumeric: cat1	✓	✓	-	-
workspace description (Cat food commercial 2)	alphanumeric: cat	✓	✓	-	-
tag ("siamese cat")	alphanumeric: "cat"	✓	✓	-	✓
workspace star color tags ("red", "yellow", "green")	alphanumeric: "yellow"	✓	✓	-	✓
file name ("cat324.mov")	alphanumeric: "cat32"	-	✓	-	-
file format ("cat324.mov")	alphanumeric: ".mov", "mov"	-	✓	-	-

searches for results in	query format* / valid query example	Admin inter- face	User inter- face	Case sensi- tive	Exact match *
file duration (“cat324.mov” with duration 1 min 38 seconds and 19 millisec- onds)	“0:01:38:19”	-	✓	-	✓
video file frame width (“cat324.mov” video file with frame width of 852 pixels)	852	-	✓	-	✓
video file frame height (“cat324.mov” video file with frame height of 480 pixels)	480	-	✓	-	✓
video file aspect ratio (“cat324.mov” video file with screen aspect ratio 0:1)	0:1	-	✓	-	✓
video file frame rate (“cat324.mov” video file with a frame rate of 25 frames per sec- ond)	25.00 fps	-	✓	✓	✓
audio codec (“cat324.mp3” audio file using mp3 codec)	MP3 (MPEG audio layer 3)	-	✓	✓	✓
audio sample rate (“cat324.mp3” audio file using a rate of 44 100 samples per second)	44.100000 KHz	-	✓	✓	✓
Number of audio tracks (“cat324.mp3” audio file using just 1 audio track)	1	-	✓	-	✓
Number of channels per tracks (“cat324.mp3” audio file using 2 channels per track)	2	-	✓	-	✓

* When searching for more than one tag, your query must always be an exact match of the searched item. Use wildcards for more flexible search.

To clear the search results and return to the workspaces list, either click the Close button in the search box or click the Tiger Spaces logo.

Working with Workspaces

On a Tiger Spaces client computer, you can work with workspaces stored in the depot in the following ways:

- Create a new empty workspace (see “Create a New Empty Workspace” on page 100).
- Create a new workspace from template (see “Create a New Workspace from Template” on page 102).
- Import an existing workspace into the Tiger Spaces depot (see “Import a Workspace” on page 105).
- Export a workspace as a folder to the root of the volume/share (see “Export a Workspace” on page 107).
- Mount a workspace with Read Only permissions to read and copy data from it (see “Mount a Workspace for Viewing” on page 107).
- Mount a workspace with Read & Write permissions – depending on the type of the workspace, other computers may also be able to mount it for editing (Avid Bin Locking or Multi-user Write types) or just for viewing (see “Mount a Workspace for Editing” on page 108).
- Mount a workspace for editing with Exclusive permissions i.e. not letting any other computer mount it for editing or viewing until you unmount it regardless of the type of the workspace (see “Mount a Workspace for Editing” on page 108).
- Pin a workspace (see “Pin a Workspace” on page 110).
- Lock a workspace, allowing only Read Only access to it even to its owner (see “Lock a Workspace” on page 109).
- Edit workspace settings such as name, description, tags, type, quota, volume/share it is stored on and allow using it as template for other workspaces (see “Edit Workspace Settings” on page 113).
- Close a workspace (see “Close a Workspace” on page 111).
- Delete a workspace (see “Delete a Workspace” on page 112).
- Add comments to a workspace (see “Manage Workspace Comments” on page 112).

Tiger Spaces has an intuitive user interface that displays just the options that are currently available for you for each workspace – these depend on the state of the workspace (In Use or Available) and on the permissions your account has for the specific workspace. The interface updates the information about workspaces dynamically and there’s no need to refresh your browser in order to view most current information.

Create a New Empty Workspace

When you select to create a new empty workspace besides specifying the name and type of the workspace, you can also add description and tags to facilitate finding the workspace, and specify preferred mount point of the new workspace on Windows computers.

By default, each newly created workspace is also added in Spaces|MAM. When creating it, you can select to create it only in Tiger Spaces and if needed resync it with Spaces|MAM later on, following the steps in “Synchronizing Tiger Spaces and Spaces|MAM” on page 132.

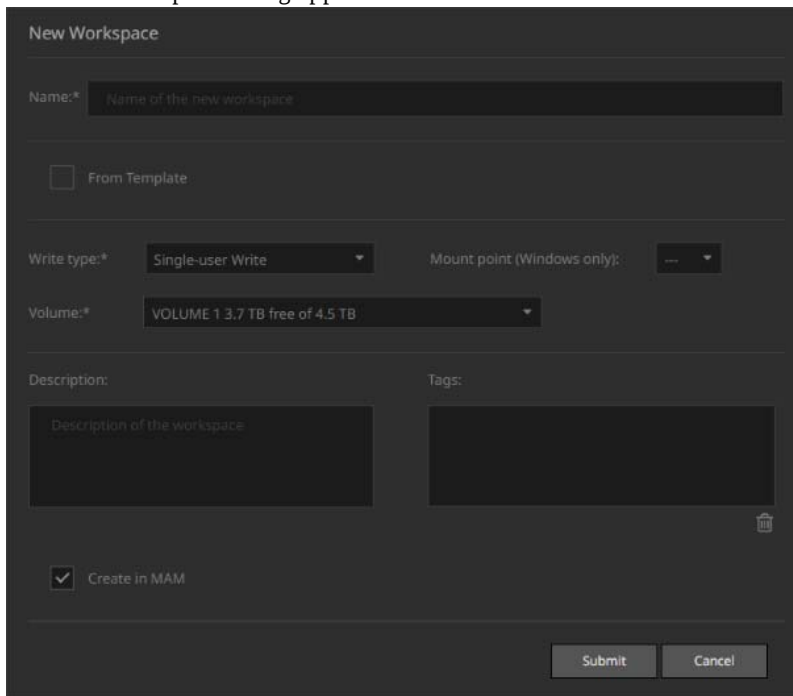
Note: Only Tiger Spaces administrators can create workspaces on SAN volumes, when workspace quota setting is enabled in Tiger Spaces.

To create a new empty workspace:

1. In the web interface, make sure no workspace is selected and click the Create button  in the upper right corner of the web interface.

Note: The Create button is not present, when you are logged on as a user, if workspace quotas are enabled in Tiger Spaces and only Tiger Spaces administrators can create new workspaces.

The New Workspace dialog appears.



2. Enter the name of the new workspace.
3. Make sure that the “From Template” check box is not selected.
4. (optional) Provide a brief description of the workspace to help you and other users discern the workspace in the depot.
5. (optional) Add tags to the workspace, to facilitate searching the database.

Working with Tiger Spaces

Note: You can add as many tags as you like. A tag can consist of maximum 256 characters including spaces. To finish adding a tag, simply press Enter. To edit a tag, double click it and when finished, press Enter. To delete a tag, click the Delete button in the tag itself.

6. If workspace quotas are enabled, enter the quota of the new workspace in GB.

Note: This field is available only if workspace quotas are enabled and if a Tiger Spaces administrator is creating a new workspace on a volume managed by Tiger Store.

7. In the Write Type drop-down box, select one of the following:

- Single-user Write – the workspace can be mounted with Read & Write permissions on only one computer at a time.
- Avid Bin Locking – Tiger Spaces emulates Avid FS for the workspace and allows mounting the workspace with Read & Write permissions on multiple computers simultaneously, letting Avid restrict accesses to the bins that are currently in use.
- Multi-user Write – there is no emulation of the file system, but Tiger Spaces allows mounting the workspace with Read & Write permissions on multiple computers simultaneously.

Warning: Unless the applications you use allow accessing the same workspace with Read & Write permissions simultaneously, setting the workspace type to Multi-user Write can lead to corruption of data in the workspace, stored on a Multi-user write workspace.

8. In Mount Point, select a preferred drive letter, which to be used on each Windows computer when mounting the workspace.
9. In the Volume drop-down box, select the volume/share on which to create the workspace or select Auto to create the workspace on the volume/share with most free space.
10. (optional, if workspace quotas are enabled) In Quota, enter the workspace quota in GB.

Note: This field is available only if workspace quotas are enabled and if a Tiger Spaces administrator is creating a new workspace on a volume managed by Tiger Store.

11. Clear the “Create in MAM” check box, if you do not want to add the new workspace in Tiger Spaces|MAM.

12. Click Submit.

A folder with the name of the workspace is created in the depot. If permissions are disabled, the newly created workspace is accessible for work to any user. If permissions are enabled, until you set permissions to the newly created workspace, only you as owner can access it. For details about setting permissions to a workspace, refer to “Set Workspace Permissions” on page 121.

Create a New Workspace from Template

If you choose to create a new workspace based on template, your new workspace will be the same type as the template workspace and will inherit its folder structure. You can also select to copy the contents of the template workspace or inherit its permissions, or both. The description, tags and preferred mount point

setting are optional and should be specified manually for each new workspace. Tiger Spaces allows you to set any existing workspace as a template for new workspaces. For more details about setting a workspace as template, see “Set a Workspace as Template” on page 120.

By default, each newly created workspace is also added in Tiger Spaces|MAM. When creating it, you can select to create it only in Tiger Spaces and if needed resync it with Tiger Spaces|MAM later on, following the steps in “Synchronizing Tiger Spaces and Spaces|MAM” on page 132.

Important: *Until the creation of the new workspace is fully finished, the state of both the new workspace and the template workspace remains In Use for other computers.*

Note: *Only Tiger Spaces administrators can create workspaces on SAN volumes, when workspace quota setting is enabled in Tiger Spaces.*

To create a new workspace from template:

1. In the web interface, make sure no workspace is selected and click the Create button  in the upper right corner of the web interface.

Note: *The Create button is not present, when you are logged on as a user, if workspace quotas are enabled in Tiger Spaces and only Tiger Spaces administrators can create new workspaces.*

2. In the New Workspace dialog, select the From Template check box.

New Workspace

Name:*

Name of the new workspace

☒ From Template

Name	Size	State
MAM2	0 B	Available

☐ Copy template content

☐ Copy template permissions

Write type:*

Single-user Write

Mount point (Windows only):

...

Volume:*

VOLUME 1 3.7 TB free of 4.5 TB

Description:

Description of the workspace

Tags:

☒ Create in MAM

Submit

Cancel

3. Enter a name of the new workspace.

4. In the list of existing template workspaces, select the workspace that you want to use as a template for the new workspace.

Important: If a template workspace is currently mounted with Exclusive rights, you cannot use it as a template.

5. Select “Copy template content”, if you also want to copy the contents of the template to the new workspace.

Note: Copying the contents of the template workspace can take significant time. Until the whole contents is copied to the new workspace, both the template and the new workspace are locked.

6. Select “Copy template permissions”, if you want the new workspace to inherit the permissions of the template workspace.

Note: *Copying permissions from a template workspace includes the owner of the workspace.*

7. (optional) Provide a brief description of the workspace to help you and other users discern the workspace in the depot.

8. (optional) Add tags to the workspace.

Note: *You can add as many tags as you like. A tag can consist of maximum 256 characters including spaces. To finish adding a tag, simply press Enter. To edit a tag, double click it and when finished, press Enter. To delete a tag, click the Delete button in the tag itself.*

9. Specify a preferred mount point, which to be used on Windows computers for mounting the workspace.

10. In the Volume drop-down box, select the volume/network share on which to create the workspace or select Auto to create the workspace on the volume/share with most free space.

11. (optional, if workspace quotas are enabled) In Quota, enter the workspace quota in GB.

Note: *This field is available only if workspace quotas are enabled and if a Tiger Spaces administrator is creating a new workspace on a volume managed by Tiger Store.*

Important: *If you are also copying the contents of the template workspace, make sure that the quota you assign to the new workspace is not less than the contents of the template workspace as not all content will be copied.*

12. Clear the “Create in MAM” check box, if you do not want to add the new workspace in Tiger Spaces|MAM.

13. Click Submit.

A folder with the name of the workspace is created in the depot. If permissions are disabled, the newly created workspace is accessible for work to any user. If permissions are enabled, until you set permissions to the newly created workspace, only you as owner can access it. For details about setting permissions to a workspace, refer to “Set Workspace Permissions” on page 121.

Import a Workspace

The import workspace option facilitates you in migrating existing folders and all their contents from the root of a volume/share to Tiger Spaces. An imported folder becomes visible in Tiger Spaces as a separate workspace. When importing a folder you can specify its name, type (Single-user write, Multi-user write or Avid bin locking), mount point on Windows client computers and on which of the volumes/shares with enabled Tiger Spaces support to copy it.

You cannot import a folder into Tiger Spaces:

- when the imported workspace has the same name as an existing workspace in the depot of the volume/share.

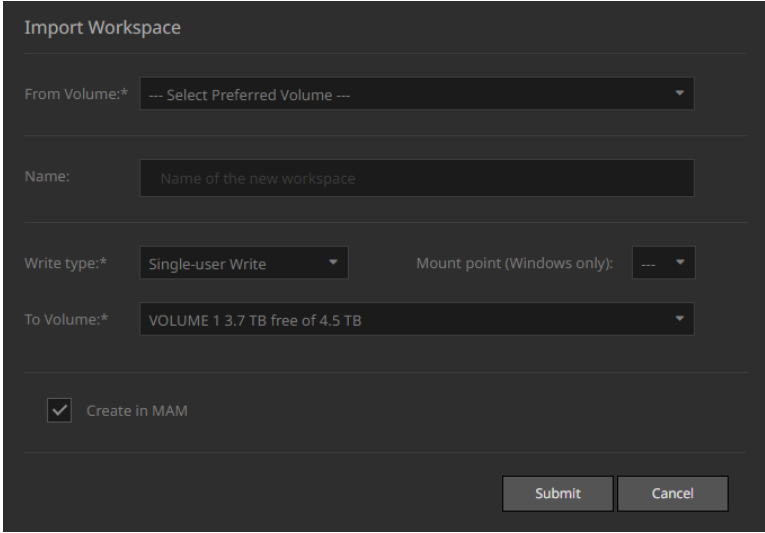
Working with Tiger Spaces

- when workspace quotas are enabled, only administrators can import folders from SAN volumes and users can import folders only from network shares.
- when workspace quotas are enabled, users cannot import a folder from the root of a network share to a SAN volume.

By default, each imported workspace is also added in Tiger Spaces|MAM. When importing a workspace, you can select to create it only in Tiger Spaces and if needed resync it with Tiger Spaces|MAM later on, following the steps in “Synchronizing Tiger Spaces and Spaces|MAM” on page 132.

To import an existing folder into the depot:

1. In the web interface, click the Import button  in the upper right corner of the web interface.
2. In the Import Workspace dialog, do the following:

The image shows a dark-themed 'Import Workspace' dialog box. It contains several input fields and a checkbox. At the top is the title 'Import Workspace'. Below it is a 'From Volume:*' dropdown menu with the text '--- Select Preferred Volume ---'. Next is a 'Name:' text input field with the placeholder 'Name of the new workspace'. Below that is a 'Write type:*' dropdown menu set to 'Single-user Write', and a 'Mount point (Windows only):' dropdown menu with '---'. Then is a 'To Volume:*' dropdown menu showing 'VOLUME 1 3.7 TB free of 4.5 TB'. At the bottom left is a checked checkbox labeled 'Create in MAM'. At the bottom right are 'Submit' and 'Cancel' buttons.

- In the “From Volume” drop-down box, select the volume/share from which to import the folder.
- In the “To Volume” drop-down box, select the volume/share on which to import the folder.
- In the pane, select the folder, which you want to import.
- In Name, enter a name for the imported workspace, unless you want to import it with the name of the folder.
- In Write type drop-down box, select the type of the imported workspace.
- (optional) Select a preferred mount point on each Windows client computer.
- Clear the “Create in MAM” check box, if you do not want to add the new workspace in Tiger Spaces|MAM.

3. Click Submit.

Note: *Importing a folder with all its data can take significant time.*

A workspace with the specified name is created in the depot. It contains all data from the imported folder. If permissions are disabled, the imported workspace is accessible for work to any user. If permissions are enabled, until you set permissions to the imported workspace, only you as owner can access it. For details about sharing a workspace, refer to “Set Workspace Permissions” on page 121.

Export a Workspace

When you need to access the files of a workspace not through Tiger Spaces (if you want to archive them, for example) instead of disabling Tiger Spaces support on the volume/network share in order to unhide the workspaces depot, you can export the workspace. The export operation copies the workspace folder and all its contents to the root of the volume/network share on which the depot is stored as long as there is enough free space. The new folder inherits the hierarchical structure of the workspace folder and contains all of its data and is accessible to all computers that can browse the volume/network share.

Important: *Only the owner of a workspace or an administrator can export it and only if the workspace state is Available.*

To export a workspace:

1. In the web interface, select a workspace in the list and in the workspace menu , click the Export button .
2. Click Submit to confirm that you want to export the workspace.

The workspace folder is copied to the root of the volume/share on which it is stored.

Mount a Workspace for Viewing

Once you mount a workspace for viewing (with Read Only permissions), it is mounted on your computer as a local drive, but you cannot introduce any changes to it – you can just copy data from it to another location (a workspace mounted for editing, for example).

A workspace can be mounted for viewing on multiple computers as long as it is not mounted Exclusively on another machine.

Tip: *To view who has mounted the workspace and with what permissions, click the In Use link in the workspace listing.*

Note that if changes are introduced in the workspace from the computer that has mounted it for editing, all computers that are just viewing the workspace detect these changes only after re-mounting it.

Important: *(Avid only) You can open an Avid project, stored in a Tiger Spaces workspace, only if you have mounted it for editing. When the workspace is mounted with Read Only access, you will be able to open the Avid project's Bins only.*

To mount a workspace for viewing:

In the web interface, click the Read button  in the listing of a workspace.

The workspace mounts as a local drive on your computer. If no preferred mount point is specified, the workspace is mounted in the default mount point for the respective platform:

- (Windows) using the first available drive letter.
- (macOS) in the /Volumes directory.

Mount a Workspace for Editing

Before beginning work with your desired application on a workspace that exists in the depot, you must first mount it as local drive on your computer. Tiger Spaces provides you with several options for mounting a workspaces for editing. When the workspace type is set to “Single-user Write” only one computer can mount it with Read & Write permissions at a time and the workspace state must be “Available”. When the workspace type is “Avid Bin Locking” or “Multi-user Write” multiple computers can mount it for editing even if the workspace state is “In Use”. Note that in this case preventing data corruption is up to the application you use for access to the workspace’s data.

Regardless of the type of the workspace, you can mount it Exclusively (mount it for editing with Exclusive rights), which means that no other computer can mount it neither for editing, nor for viewing until you close it on your computer.

Additionally, if a workspace is locked, it cannot be mounted for editing on any computer until its owner or an administrator unlocks it.

To mount a workspace for editing:

In the web interface, click the Write button  in the listing of a workspace.

The workspace mounts as a local drive on your computer. If no preferred mount point is specified, the workspace is mounted in the default mount point for the respective platform:

- (Windows) using the first available drive letter.
- (macOS) in the /Volumes directory.

To mount a workspace Exclusively:

In the web interface, click the Exclusive button  in the listing of a workspace.

The workspace mounts as a local drive on your computer. If no preferred mount point is specified, the workspace is mounted in the default mount point for the respective platform:

- (Windows) using the first available drive letter.
- (macOS) in the /Volumes directory.

Note: To allow access to the workspace again, you must close it (see “Close a Workspace” on page 111).

Lock a Workspace

When you don't want anyone to introduce any further changes to a workspace, you can lock it. By locking a workspace you provide only Read Only access to it, until it is again unlocked. Locking a workspace can be useful when you want to set it as template.

Important: *Only the owner of a workspace or a Tiger Spaces administrator can lock/unlock a workspace. You cannot lock/unlock a workspace if its state is "In Use".*

You can view a list of all workspaces locked by you, by applying the lock filter. For more information, refer to "The Web Interface" on page 91.

To lock/unlock a workspace:

1. In the web interface, do one of the following:

- select a workspace in the list and click the Inspector button  in the upper right corner of the web interface.
- double-click a workspace in the list to open its page.

2. In the Details tab of the Workspace Settings pane, do the following:

Details Sharing Comments Activity

0555 Available

General

Owner: test_k@T4

Size: 3 MB

Last access: 14:48:46 2-Feb-2021

Background task: N/A

Location: RAID011

Write type: AVID bin locking

Preferred letter: --- Select a letter ---

Locked: ☐

Template: ☐

Quota (GB): Quota for the workspace in GB

Description:

Tags: green_star

- To lock the workspace, select the Locked check box and click Submit.
- To unlock the workspace, clear the Locked check box and click Submit.

Pin a Workspace

By default, each time you want to work with a workspace, you must access the web interface of Tiger Spaces and manually mount it. To facilitate your workflow, Tiger Spaces allows you to pin a selected workspace, which means that each time you log in to the web interface, Tiger Spaces attempts to mount it with the same permissions (Read, Write or Exclusive) you have mounted it as long as the workspace is not in use on another computer. A workspace can be pinned by two or more users at the same time. In this case Tiger Spaces mounts it for the user that logs on the web interface first.

You can unpin a workspace at any time. Also, a workspace is no longer pinned to your account, if you explicitly dismount it by closing it in the web interface or if an administrator or the owner of the workspace force closes it from your computer.

To pin/unpin a workspace:

1. In the web interface, mount a workspace for viewing (), writing () or exclusively ().
2. In the workspace listing, click the pin icon next to the workspace name to change the state of the workspace to either pinned () or unpinned ().

Tip: You can keep track of all pinned workspaces for your account, by clicking the  Pinned filter in the left pane.

Close a Workspace

You can close a workspace you have mounted for editing or just for viewing. When you close a workspace in the Tiger Spaces interface, you simply unmount the workspace drive from your computer. That is why, before closing a workspace, which you have edited, make sure that you have closed it in the editing application first, as any unsaved changes will be lost once you unmount the workspace from your computer.

Note: You can automatically unmount all workspaces mounted on your computer by logging out of Tiger Spaces.

You cannot close a workspace mounted on another computer. If a computer is holding a workspace open, an administrator or the owner of the workspace can force close it. Force closing a workspace unmounts the workspace from the computer and any unsaved changes in it are lost.

To close a mounted workspace:

In the web interface, click the Close button  in the listing of a mounted workspace.

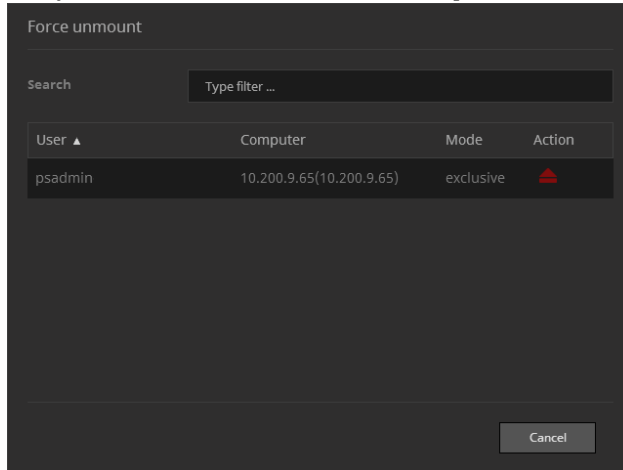
The workspace drive is unmounted from your computer.

To force unmount a workspace mounted on another computer:

Important: Force unmounting a workspace unmounts the workspace from the computer and any unsaved changes are lost.

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1. In the web interface, click the In Use button in the listing of a mounted workspace.
2. In the Force Unmount dialog, click the Force Unmount button  next to a user and then confirm that you want to force unmount the workspace from that user's computer.



Important: Only the owner of a workspace or an administrator can force close a workspace, mounted on another computer.

Delete a Workspace

The owner of a workspace or an administrator of Tiger Spaces can delete a workspace as long as it is not mounted on any computer (the workspace state is Available) and it is not locked. Once you delete a workspace in Tiger Spaces, the hidden folder and all of its contents are deleted from the depot on the volume/share and cannot be restored.

To delete a workspace:

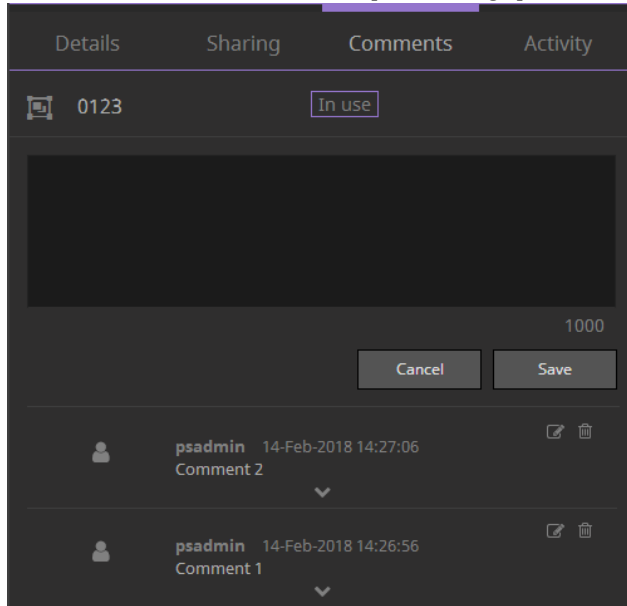
1. In the web interface, select a workspace in the list and in the workspace menu  , click Delete workspace .
2. Confirm that you want to delete the workspace.

Manage Workspace Comments

Comments are designed to facilitate the communication between team members when working on the same workspace. Unlike the workspace description and tags, comments are not parsed by the Tiger Spaces search engine. Each user can add, edit or delete their own or other users' comments on a workspace, even if it is currently mounted on another computer. A comment can consist of up to 1000 characters with spaces included.

To manage workspace comments:

1. In the web interface, do one of the following:
 - select a workspace in the list and click the Inspector button  in the upper right corner of the web interface.
 - double-click a workspace in the list to open its page.
2. In the Comments tab of the Workspace Settings pane, do one of the following:



- To add a new comment, click the Add comment button , enter the comment in the comment box and click Save.
- To edit a comment, click the Edit comment button  next to an existing comment, edit it in the comment box and click Save.
- To delete a comment, click the Remove comment button  next to an existing comment and when prompted, confirm that you want to delete the comment, then click Save.

Edit Workspace Settings

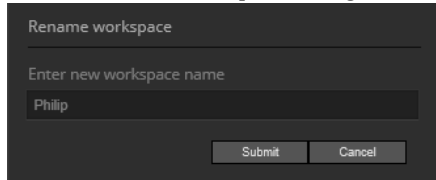
Rename a Workspace

The name of a workspace is used as a label of the drive that mounts on your computer. Only the owner of a workspace or an administrator can edit its name.

Note: To edit the name of a workspace, its state must be Available i.e. it must not be mounted on any other computer.

To rename a workspace:

1. In the web interface, select a workspace in the list and in the workspace menu , click the Rename button .
2. In the Rename Workspace dialog, enter a new name and click Submit.

A dark-themed dialog box titled "Rename workspace". It contains a text input field with the placeholder text "Enter new workspace name". Below the input field, the word "Philip" is displayed. At the bottom of the dialog, there are two buttons: "Submit" and "Cancel".

Edit the Workspace Description

The workspace description facilitates you in discerning one workspace from another. The description is also scanned by the Tiger Spaces's search engine when displaying search results. You can change the description of a workspace at any time. To edit the description of a workspace, its state must be Available i.e. it must not be mounted on any other computer.

Note: Only the owner of a workspace, a Tiger Spaces administrator and users with Edit permissions can change the description of a workspace.

To add/edit workspace description:

1. In the web interface, do one of the following:
 - select a workspace in the list and click the Inspector button  in the upper right corner of the web interface.
 - double-click a workspace in the list to open its page.

2. In the Details tab of the Workspace Settings pane, add/edit the workspace description in the respective field and then click Save.

Details Sharing Comments Activity

0555 Available

General

Owner: test_k@T4
 Size: 3 MB
 Last access: 14:48:46 2-Feb-2021
 Background task: N/A
 Location: RAID011

Write type: AVID bin locking ▼
 Preferred letter: --- Select a letter --- ▼

Locked: ☐
 Template: ☐

Quota (GB): Quota for the workspace in GB
 Description:

Tags:

green_star

Manage Tags

The tags associated with a workspace facilitate you when using the Tiger Spaces's search engine. A tag can consist of more than one word and can contain spaces. You can add tags both to a workspace and to its contents (media file, other file or object). You can also edit an existing tag or delete it at any time. You can manage the tags associated with a workspace even if it's currently mounted on another computer for editing.

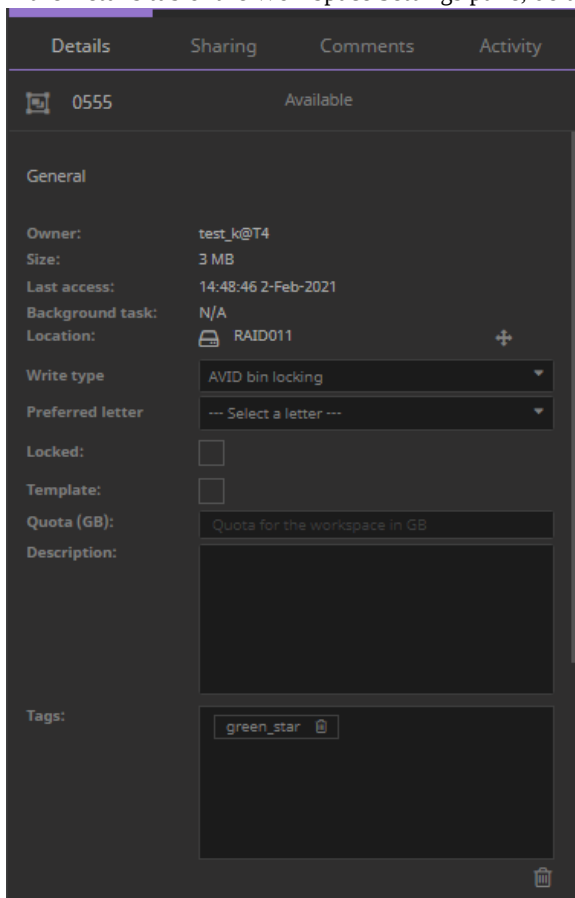
Note: *Workspace stars also appear as tags in the workspace metadata. For information about starring a workspace, refer to “Star a Workspace” on page 117.*

To manage the tags of a workspace:

1. In the web interface, do one of the following:

- select a workspace in the list and click the Inspector button  in the upper right corner of the web interface.
- double-click a workspace in the list to open its page.

2. In the Details tab of the Workspace Settings pane, do the following:

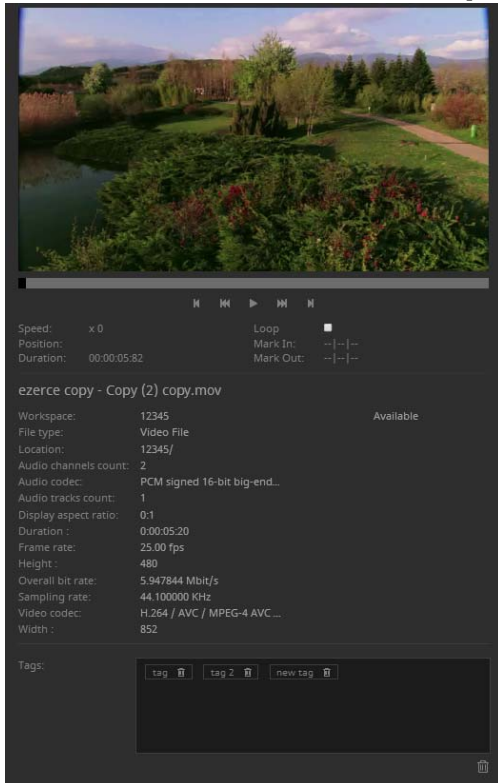


- To add a tag to the workspace, in the Tags field, type the tag and press Enter when finished.
- To edit a tag, in the Tags field, double click an existing tag, edit it and when finished press Enter.
- To delete a tag, in the Tags field, click the Delete button  next to the tag.

Tip: To delete all tags associated with the workspace, below the Tags field, click the Delete button . This doesn't delete tags associated with the workspace contents (media file, another file or an object).

To manage the tags associated with a workspace's contents:

1. In the web interface, double-click a workspace in the list to open its page.
2. In the left pane select the type of content whose tags you want to manage - media , objects , or miscellaneous files .
3. Select the item in the list and in the Details pane do the following:



- To add a tag to the item, in the Tags field, type the tag and press Enter when finished.
- To edit a tag, in the Tags field, double click an existing tag, edit it and when finished press Enter.
- To delete a tag, in the Tags field, click the Delete button  next to the tag you want to delete.

Tip: To delete all tags associated with the item, below the Tags field, click the Delete button . This deletes just the tags associated with the currently selected item.

Star a Workspace

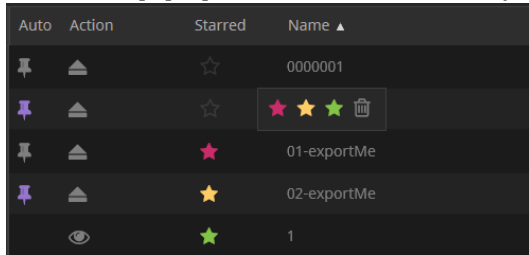
Starring a workspace is another method for discerning between workspaces. Tiger Spaces allows you to star a workspace with one or more of the three available star colors - red, yellow, green. A workspace can

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be starred by two or more users, to which it is accessible, each using different colors. In this case the workspace is displayed with a multicolored star  in the list. You can sort the workspaces list by their star color. Additionally, star colors appear as tags in the workspace metadata, using the following format “[color]_star”. Thus, you can search for a given star color and filter the results, limiting them to tags only.

To star a workspace:

1. In the workspaces list, click the star icon  next to a workspace.
2. In the Stars pop-up, click the star color, which you want to assign to the workspace.



Note: Alternatively, you can assign star color to a workspace as a tag, using the following tag format “[color]_star”. For example, to star a workspace with a yellow star, add the following tag: “yellow_star”. For more information about adding tags, refer to “Manage Tags” on page 115.

To remove the star of a workspace:

1. To delete just a selected star color of a workspace, click the star icon next to a workspace listing and then click the star of the color you want to remove.
2. To leave a workspace without any stars, click the star icon next to a workspace listing and in the Stars pop-up click the Delete button .

Note: Alternatively, you can delete one or all star color tags in the Details tab of a workspace Inspector panel.

Edit the Workspace Type

You can change the type of a workspace at any time. Keep in mind that if the workspace already contains data, changing its type may obstruct its usage and can even lead to data corruption. For example, if you change the type of a workspace from Avid Bin Locking to Multi-user Write, you will remove the Avid FS emulation and Avid will no longer supervise which bins are currently available for use, etc. To edit the type of a workspace, its state must be Available i.e. it must not be mounted on any other computer.

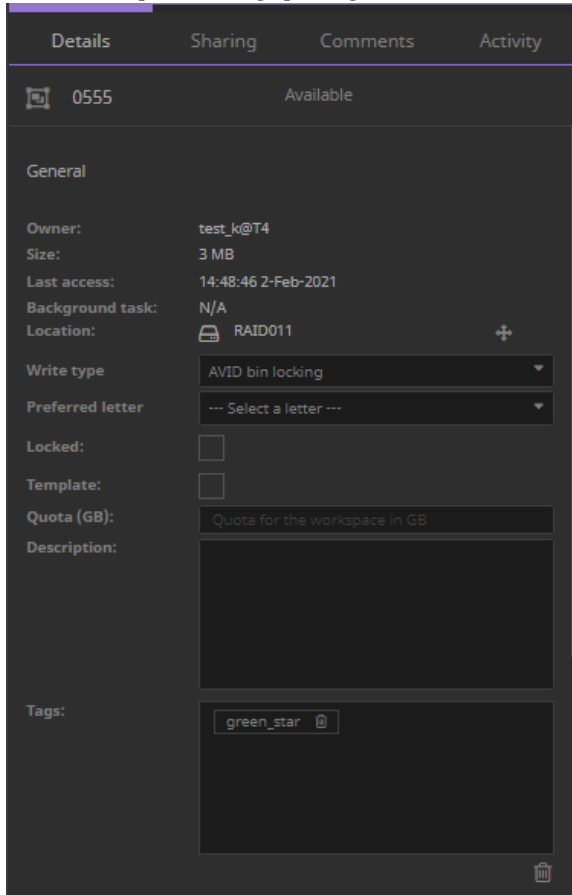
Note: Only the owner of a workspace, a Tiger Spaces administrator and users with Edit permissions can change the type of a workspace.

To edit the type of a workspace:

1. In the web interface, do one of the following:

- select a workspace in the list and click the Inspector button  in the upper right corner of the web interface.
- double-click a workspace in the list to open its page.

2. In the Workspace Settings pane, go to the Details tab.



Details Sharing Comments Activity

 0555 Available

General

Owner: test_k@T4

Size: 3 MB

Last access: 14:48:46 2-Feb-2021

Background task: N/A

Location:  RAID011 

Write type: AVID bin locking 

Preferred letter: --- Select a letter --- 

Locked: ☐

Template: ☐

Quota (GB): Quota for the workspace in GB

Description:

Tags: green_star 

3. In the Type drop-down box, select one of the following:

- Single-user Write – no parsers for detecting the workspace type are applied and the workspace can be mounted with Read & Write permissions on only one computer at a time.

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- Avid Bin Locking – Tiger Spaces emulates Avid FS for the workspace and allows mounting the workspace with Read & Write permissions on multiple computers simultaneously, letting Avid restrict accesses to project bins that are currently in use.
- Multi-user Write – there is no emulation of the file system, but Tiger Spaces allows mounting the workspace with Read & Write permissions on multiple computers simultaneously.

Warning: *Unless the applications you use allow accessing the same project with Read & Write permissions simultaneously, setting the workspace type to Multi-user Write can lead to corruption of data in the project.*

4. Click Save.

Set a Workspace as Template

To facilitate you in creating new workspaces, Tiger Spaces allows you to set any existing workspace as template for future workspaces. When you create a new workspace from a template, you inherit the type and the folder structure of the template. Additionally, you can also select to copy the contents of the template workspace or inherit its permissions, or both. To set a workspace as template or remove it from the list of templates, its state must be Available i.e. it must not be mounted on any other computer.

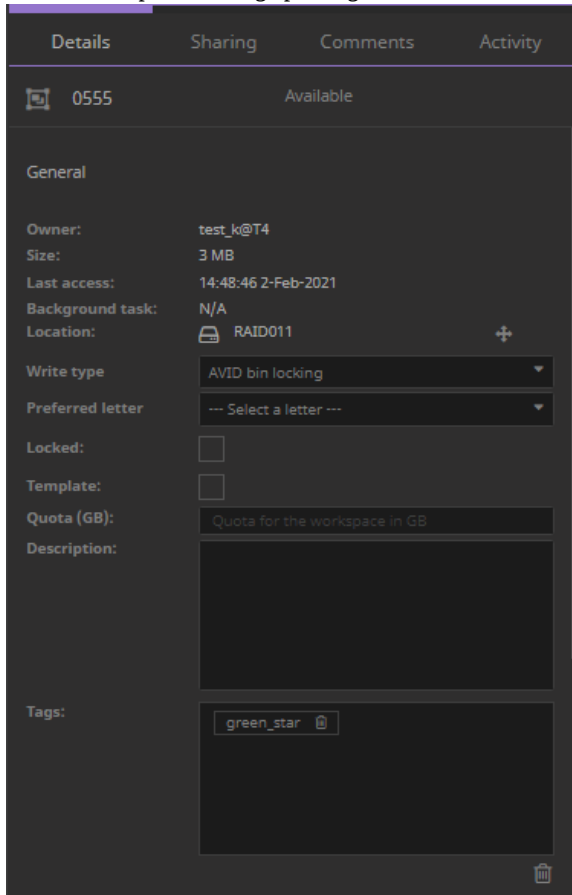
Note: *Only the owner of a workspace, a Tiger Spaces administrator and users with Edit permissions can set the workspaces template or remove it from the list of templates.*

To set a workspace as template:

1. In the web interface, do one of the following:

- select a workspace in the list and click the Inspector button  in the upper right corner of the web interface.
- double-click a workspace in the list to open its page.

2. In the Workspace Settings pane, go to the Details tab and do one of the following:



- Select the Template check box, to allow using the workspace and its contents as a template.
- Clear the Template check box, to remove the workspace from the list of templates.

3. Click Save.

Set Workspace Permissions

Unless Tiger Spaces is deployed without security, the access to each workspace is subject to authentication. You can authenticate yourself using the account you log in to Tiger Spaces with (either a domain account or an internal Tiger Spaces account). Until permissions of the workspace are set only its owner can mount it for viewing or editing. The owner of a workspace or a Tiger Spaces administrator can specify permissions defining who can access the workspace and with what rights:

Read — the user can mount the workspace with Read Only permissions only.

Write — the user can mount the workspace with Read Only, Read & Write and Exclusive permissions, but cannot delete the workspace.

Owner — the user can mount the workspace with Read Only, Read & Write and Exclusive permissions, and can manage any of its settings.

None — the user does not have access to the workspace.

Note: *Only an administrator can change the owner of a workspace. Once a new owner is assigned, the previous one automatically has none permissions for the workspace.*

You can assign any of the above permissions to both individual users and user groups.

As you can set permissions both for a user and for the group this user is part of, Tiger Spaces performs the following check to decide which permissions to apply for the user:

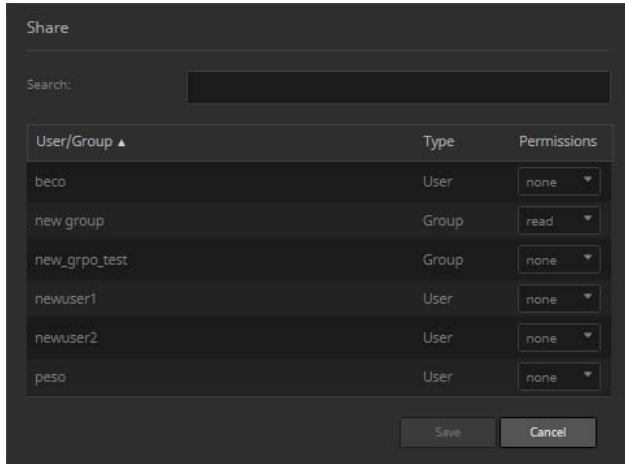
- the permissions set for the user precede the permissions set for the group the user is part of;
- if you specify permissions for two or more user groups, of which a user is a member, but do not set the individual permissions of that user, Tiger Spaces uses the more restrictive permissions set for the group i.e. if one group has Write permissions and the other has Read permissions, a member of both groups has Read permissions only;
- if no permissions are set specifically for a user, Tiger Spaces applies the permissions set for the group this user is member of.

Each time you switch the environment in which Tiger Spaces operates from domain to workgroup or vice versa, an administrator of Tiger Spaces has to reset the permissions of each workspace manually to allow users to access it.

To set workspace permissions:

Important: *To change the permissions of a workspace, its state must be Available. While setting the permissions, the workspace state is In Use and no computer can access it until you exit the Permissions interface.*

1. In the web interface, select one or more workspaces in the list and click the Share button  in the upper right corner of the web interface.
2. In the Share dialog, select the respective permission in the drop-down box next to a user/group and click Save.



The Share dialog box contains a search bar at the top. Below it is a table with three columns: 'User/Group', 'Type', and 'Permissions'. The table lists several users and groups, each with a corresponding permission level. At the bottom of the dialog are 'Save' and 'Cancel' buttons.

User/Group ▲	Type	Permissions
beco	User	none ▼
new group	Group	read ▼
new_grpo_test	Group	none ▼
newuser1	User	none ▼
newuser2	User	none ▼
peso	User	none ▼

Tip: Use the Search box to more easily find the user or group, whose permissions you want to change.

The new permissions are applied immediately.

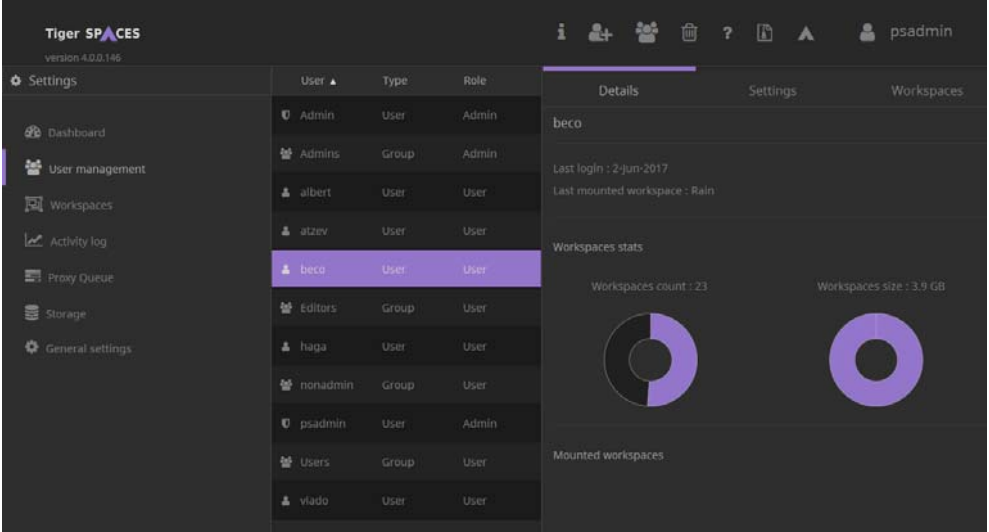
Alternatively, a Tiger Spaces administrator can change the permissions of a user or group to any workspace in the depot, which is useful when you want to share existing workspaces with a newly created user or group of users.

To change the permissions of a user/group for a workspace:

1. Log in to the web interface with an administrative account and then in the upper right corner click the Settings button .
2. In the left pane of the Settings page, click User management.

Working with Tiger Spaces

3. Select a user or group in the list and then click the Inspector button  .



Tiger SPACES
version 4.0.0.146

Settings | Dashboard | User management | Workspaces | Activity log | Proxy Queue | Storage | General settings

User	Type	Role
Admin	User	Admin
Admins	Group	Admin
albert	User	User
atzev	User	User
beco	User	User
Editors	Group	User
haga	User	User
nonadmin	Group	User
psadmin	User	Admin
Users	Group	User
vlado	User	User

Details | Settings | Workspaces

beco

Last login : 2-jun-2017
Last mounted workspace : Rain

Workspaces stats

Workspaces count : 23
Workspaces size : 3.9 GB

Mounted workspaces

The Workspaces tab lists all workspaces the selected user or group has other than “none” access to.

4. Do one of the following:

- To change the permissions to an already accessible workspace, next to the workspace, select the new permission in the Permissions drop-down box and then click Save.

User123

All Own workspaces Shared with me

▼

Name	Volume	Permissions
\$aaaaa	56_share_001	read ▼
fff	56_share_001	Owner

Share new

- To share a new workspace with the selected user/group, click “Share new”, then in the Share Workspace dialog, browse to the desired workspace and in the Permissions drop-down box, select the permissions you want to set and click Save.

Share workspace

Search:

Workspace	Volume	Permissions
\$\$000	56_share_001	none ▼
\$adv	HA_2_RSTOR	none ▼
\$adv	HA	none ▼
\$adz	56_share_001	none ▼
\$adzz	NFS2	none ▼
.fseventsd	HA	none ▼

Save Close

Important: *If you choose to make the selected user/group owner of a workspace, its previous owner automatically gains no access to the workspace.*

Set Preferred Mount Point of a Workspace (Windows only)

When a client computer mounts a workspace for editing or viewing, the workspace is mounted on the computer as a local drive, using the following default mount point depending on the client computer operating system:

- Windows – the first available drive letter.
- macOS - /Volumes directory.

When creating a new workspace, you can specify a preferred drive letter to be used on all Windows client computers that mount the workspace. If the drive letter is already taken, the default mount point is used.

You can set or change the preferred mount point of a workspace at any time as long as the workspace state is Available i.e. it must not be mounted on any other computer.

Note: *Only the owner of a workspace, a Tiger Spaces administrator and users with Edit permissions can change its preferred mount point.*

To set/change the preferred drive letter of a workspace:

1. In the web interface, do one of the following:

- select a workspace in the list and click the Inspector button  in the upper right corner of the web interface.
- double-click a workspace in the list to open its page.

2. In the Workspace Settings pane, go to the Details tab.

Details Sharing Comments Activity

0555 Available

General

Owner: test_k@T4
 Size: 3 MB
 Last access: 14:48:46 2-Feb-2021
 Background task: N/A
 Location: RAID011

Write type: AVID bin locking

Preferred letter: --- Select a letter ---

Locked: ☐

Template: ☐

Quota (GB): Quota for the workspace in GB

Description:

Tags:

green_star

3. Select a drive letter in the Preferred letter drop-down box, and then click Save.

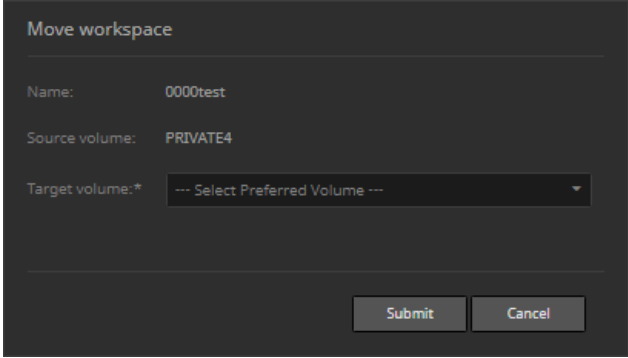
Move a Workspace Between Volumes / Network Shares

When Tiger Spaces support is enabled on multiple volumes/shares, you can select on which volume/share to create each new workspace. Similarly, after a workspace is created in the depot, you can move it between the volumes/shares, on which Tiger Spaces support is enabled.

Only the owner of a workspace or an administrator of Tiger Spaces can move a workspace as long as it is not mounted on any computer (its state must be Available) and it is not locked. If workspace quotas are enabled, users cannot move a workspace from a network share to a volume managed by Tiger Store. Also, should a Tiger Spaces administrator moves a workspace with assigned quota to a network share, the quota will be lost.

To move a workspace between volumes/network shares:

1. In the web interface, select a workspace in the list and in the workspace menu  , click the Move Workspace button  .
2. In the Move Workspace dialog, select the volume/network share on which to move the workspace in the Target volume drop-down box and then click Submit.

A dark-themed dialog box titled "Move workspace". It contains three labels: "Name:" with the value "0000test", "Source volume:" with the value "PRIVATE4", and "Target volume: *" with a dropdown menu showing "-- Select Preferred Volume --". At the bottom right are two buttons: "Submit" and "Cancel".

Change The Workspace Quota

You can change the quota of a workspace after it has been created. You should make sure not to set a quota that is smaller than the current size of the workspace as this may prevent you and other users from mounting it.

Note: Only Tiger Spaces administrators can assign/change the workspace quota.

To change the quota of a workspace:

1. In the web interface, do one of the following:
 - select a workspace in the list and click the Inspector button  in the upper right corner of the web interface.
 - double-click a workspace in the list to open its page.

2. In the Workspace Settings pane, go to the Details tab.

Details Sharing Comments Activity

0555 Available

General

Owner: test_k@T4
 Size: 3 MB
 Last access: 14:48:46 2-Feb-2021
 Background task: N/A
 Location: RAID011

Write type: AVID bin locking

Preferred letter: --- Select a letter ---

Locked: ☐

Template: ☐

Quota (GB): Quota for the workspace in GB

Description:

Tags:

green_star

3. In Quota, enter the quota of the workspace and then click Save.

Tip: To remove the quota of a workspace, simply leave the quota field empty.

Rescan a Workspace

By default, each time a workspace is dismounted from a client computer, the Tiger Spaces parsers scan it in order to update information about files in the workspace, such as video codecs, frame rate, audio sample rate, application used, workspace structure, etc. Additionally on dismount the workspace database is updated with information about the workspace size, number of files, user accounts associated with it. You can force the parsing of a workspace without having to mount and dismount it, and thus update metadata information about it in the Tiger Spaces database.

Working with Tiger Spaces

You can also rescan a workspace in order to force the generation of proxy media in it. You can do it only if the workspace does not contain any proxy media generated already. If it does, you should first clear its proxies and only after that rescan it.

Note: *You can rescan a workspace, only if its state is Available i.e. is not currently mounted on any computer.*

To rescan a workspace:

In the web interface, select a workspace in the list and click the rescan button  in the upper right corner of the web interface.

4

Spaces | MAM

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Spaces|MAM

Spaces|MAM is a media asset management module designed in collaboration with IMC Technologies. It further enhances the efficiency of rich media & entertainment workflows by complementing Tiger Spaces with a robust engine for cataloguing, searching, making clip selection and building a rough cut-list that can be imported directly into Avid Media Composer, Adobe Premiere or Apple Final Cut Pro.

Getting Started

To get started with Spaces|MAM, you must:

- Install the IMC Technologies' module on the Tiger Spaces server or on both Tiger Spaces nodes, if high availability is activated. For more information, refer to the user's guide of the IMC Technologies' module.

Note: *If Tiger Spaces is installed on a Tiger appliance, contact Tiger Technology support for assistance.*

- Make sure Spaces|MAM is activated on the Tiger Spaces server/on each server node.

Integration with Tiger Spaces

The MAM module uses the same user accounts already set up for access to Tiger Spaces - domain users in the "Tiger Spaces Users" and "Tiger Spaces Admins" groups and subgroups or the internally created Tiger Spaces user or administrator accounts.

Once the module is installed and activated, it automatically detects all existing Tiger Spaces workspaces and parses data in them. The module does not detect only workspaces that you have explicitly configured to exclude from Spaces|MAM when creating or importing them. In this case, to use such workspaces in Spaces|MAM an administrator must synchronize them.

Synchronizing Tiger Spaces and Spaces|MAM

In case you have created or imported workspaces choosing not to add their contents in Spaces|MAM an administrator can easily make the available in the MAM module by synchronizing them. The administrator can synchronize all unsynchronized workspaces in the depot or just selected workspaces.

Important: *Initially a resynchronized workspace is available in Spaces|MAM only to its owner. To make it available to all other users having access to it in Tiger Spaces you must force the synchronization of the workspace permissions. This is done by re-applying the permissions, following the steps in "Set Workspace Permissions" on page 121.*

You can also use the synchronize function in case Spaces|MAM service has stopped running while new data is created in the workspaces depot.

To synchronize Tiger Spaces and Spaces|MAM data manually:

1. In the web interface, click  MAM: resync workspaces in the upper right corner of the web interface.
2. When prompted, confirm that you want to synchronize the workspaces depot with Spaces|MAM.

To synchronize selected workspaces with Spaces|MAM data manually:

1. In the list of workspaces, select the workspace(s) the contents of you want to make available in Spaces|MAM.
2. In the workspace menu  of any of the selected workspaces, click  MAM: resync.
3. When prompted, confirm that you want to synchronize the workspaces depot with Spaces|MAM.

Accessing the Web Interface of the MAM Module

You can access the MAM module's web interface directly through port 85 (for more information, refer to the user's guide of the IMC Technologies' module) or through Tiger Spaces, by searching the MAM module's database.

Note: When you access the web interface of the MAM module through Tiger Spaces, you remain logged in with the same user account you are currently logged in with in Tiger Spaces.

To search the MAM module through Tiger Spaces:

1. Log in to the web interface of Tiger Spaces.
2. In the search box of the enter the search term and click the Search in MAM button .

5

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<i>Utilize an SSL Certificate of Your Choice</i>	<i>147</i>
<i>Deploy the SSL Certificate on Network Computers</i>	<i>148</i>
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Install Tiger Spaces Client on macOS Catalina and Later

If macOS Catalina and later does not allow you to open the Tiger Spaces Client installation file by double-clicking it, because Apple cannot check it for malicious software, you must control-click it in Finder, choose Open from the menu, and then click Open in the dialog that appears.

Allow the User Management of Kernel Extensions on Apple Silicon macOS

Like all third-party software working at system level, the Tiger Spaces Client software uses the macOS kernel extensions, whose loading should be manually allowed by the user. By default, under the ARM architecture the operating system uses the strictest security restrictions and disallows the user management of kernel extensions even from identified developers. To enable this option needed for the Tiger Spaces Client software to install and run, follow the sample steps below. Note that even though the option is available only after you change the level of security on the startup disk to “Reduced”, this poses no risk to your operating system as it is applicable only to signed operating system software ever trusted by Apple to run.

1. Reboot the macOS Apple Silicon client system into Recovery mode.
2. In the Utilities menu, select Startup Security Utility.
3. In Startup Security Utility, click Security Policy.
4. In Security Policy, do the following:
 - Select Reduced Security.
 - Select the “Allow user management of kernel extensions from identified developers” check box.
 - Click OK.
5. Restart the computer.

Note: For most up-to-date steps about allowing the user management of kernel extensions on ARM-based computers, refer to the Apple documentation at:
<https://support.apple.com/guide/mac-help/change-security-settings-startup-disk-a-mac-mchl768f7291/mac>

Configure SQL Server for Work with Tiger Spaces

The computer on which the Tiger Spaces database will be stored and managed must run Microsoft SQL Server (see “Database Server Requirements” on page 10), set up for work with Tiger Spaces. Tiger Technology provides a download of Microsoft SQL Server 2014/2016/2017/2019 Express together with

an automated script that configures it for work with Tiger Spaces. In case the computer designated as database server already has SQL Server installed, you need to set it up for work with Tiger Spaces. You must set the server to operate in SQL Server and Windows Authentication mode and configure an existing SQL user account to:

- have sysadmin role.
- use SQL Server authentication and enable Login for the account.
- have permissions to connect to the database engine.

Additionally, if the database server and the Tiger Spaces server are on different computers, you will have to:

- set up SQL Server to allow remote connections, enable TCP/IP protocol and configure the TCP port to be used.
- configure the SQL Server Browser service to start automatically.
- allow SQL Server and the ports it uses for remote connection in the firewall of the database server.

Below you will find sample steps for configuring SQL Server using SQL Server Management Studio (SSMS) and SQL Server Configuration Manager, which is needed only when configuring SQL Server for work on a remote database server. You can download SSMS for free and install it on the computer designated as database server or on a remote computer.

To configure SQL Server for work with Tiger Spaces on the same computer:

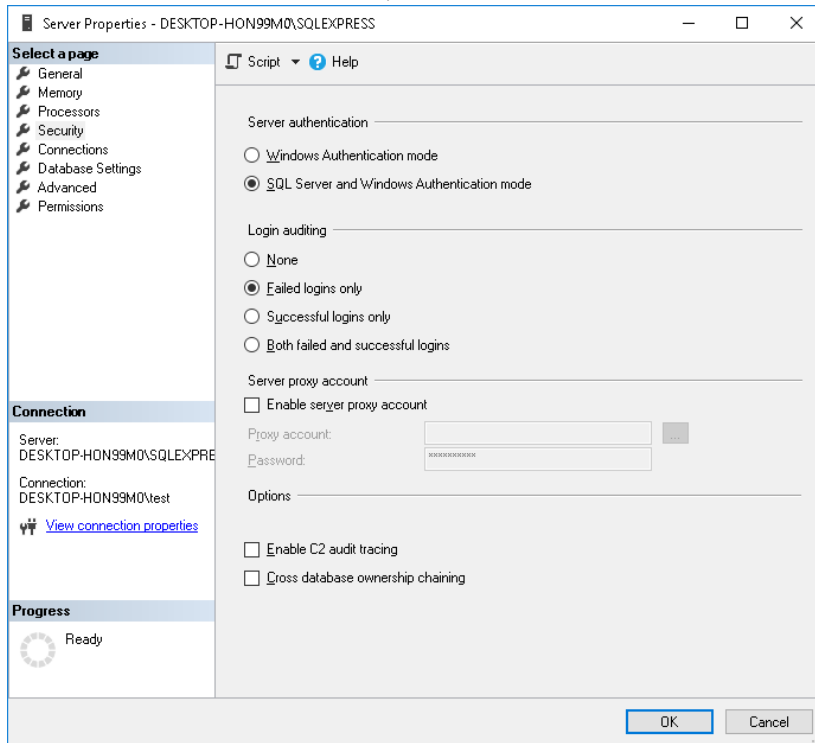
1. Start SSMS and connect to the computer running SQL Server.

Note: *In case you are running SSMS on the SQL Server computer, type localhost as server name.*

2. Right-click the SQL Server node in the left pane and click Properties in the context menu.

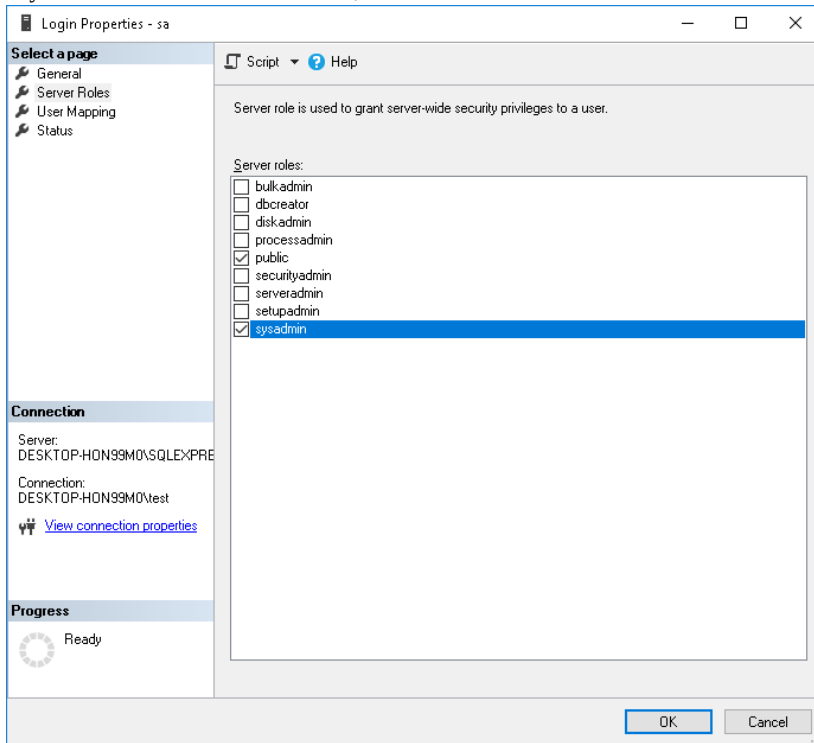
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3. Open the Server Properties dialog and click Security in the left pane, in the right pane, select SQL Server and Windows Authentication mode, then click OK.



4. In the SSMS window, expand Security in the left pane and then expand Logins.
5. Double-click the user account, which you will use with Tiger Spaces to display the Login Properties dialog for the user.

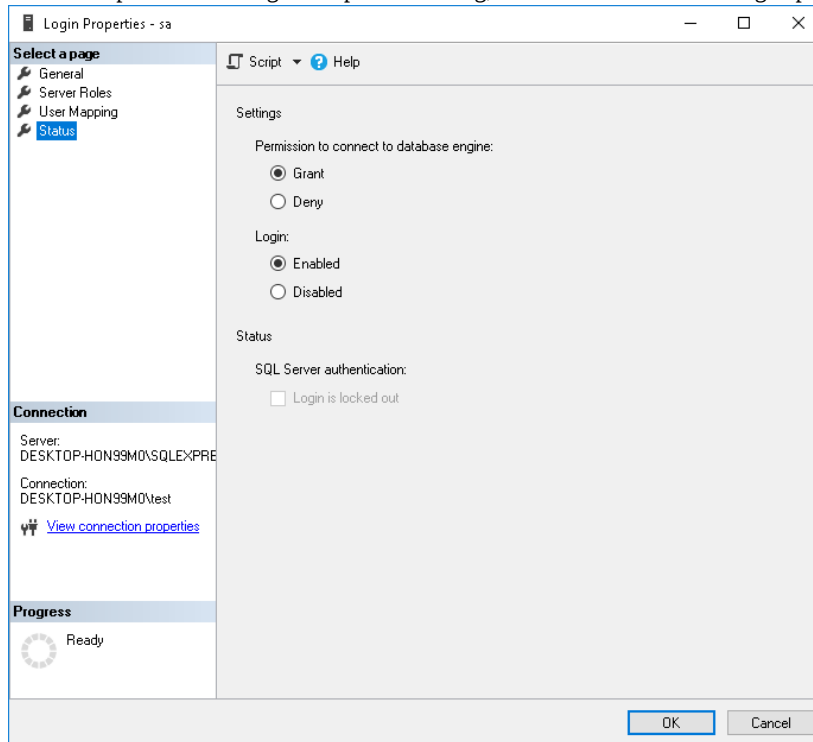
6. In the left pane of the Login Properties dialog, click Server Roles and in the right pane make sure the “sysadmin” check box is selected, then click OK.



7. Double-click the user account, which you will use with Tiger Spaces to display the Login Properties dialog for the user.

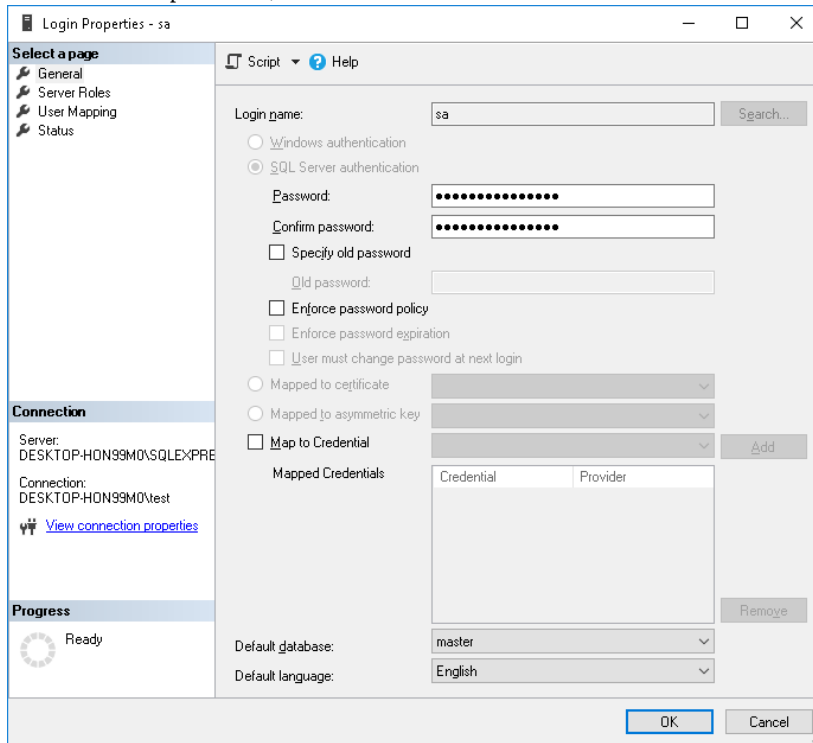
Best Practices

8. In the left pane of the Login Properties dialog, click Status and in the right pane do the following:



- Under “Permissions to connect to the database server”, select Grant.
 - Under “Login”, select Enabled.
 - Click OK.
9. Double-click the user account, which you will use with Tiger Spaces to display the Login Properties dialog for the user.

10. In the left pane of the Login Properties dialog, click General and make sure that the Password fields contain a valid password, then click OK.



11. In the SSMS window, right-click the SQL Server node in the left pane and click Restart in the context menu.

To configure SQL Server for remote access:

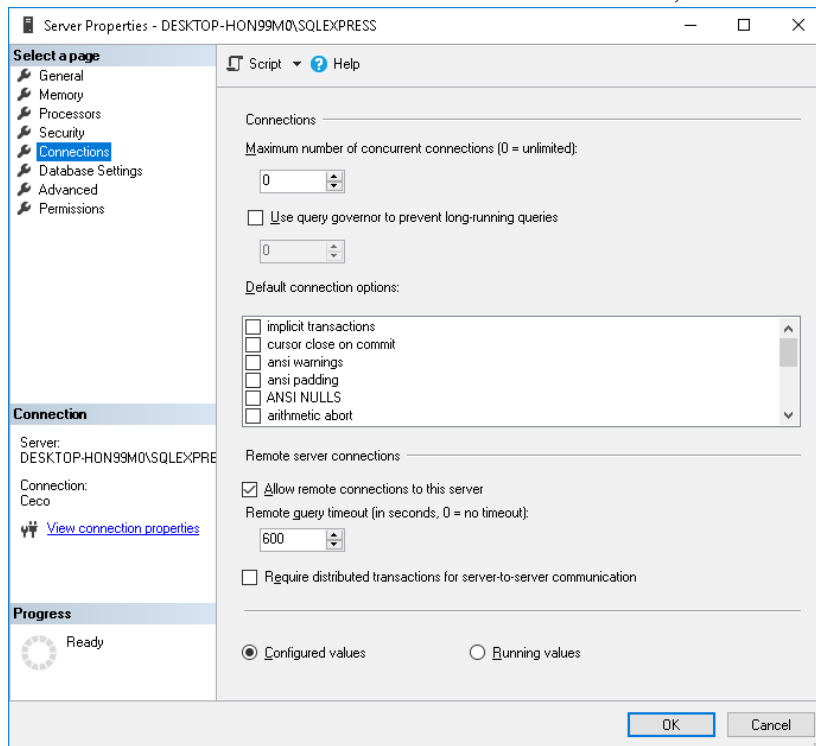
1. Start SSMS and connect to the computer running SQL Server.

Note: In case you are running SSMS on the SQL Server computer, type *localhost* as server name.

2. Right-click the SQL Server node in the left pane and click Properties in the context menu.

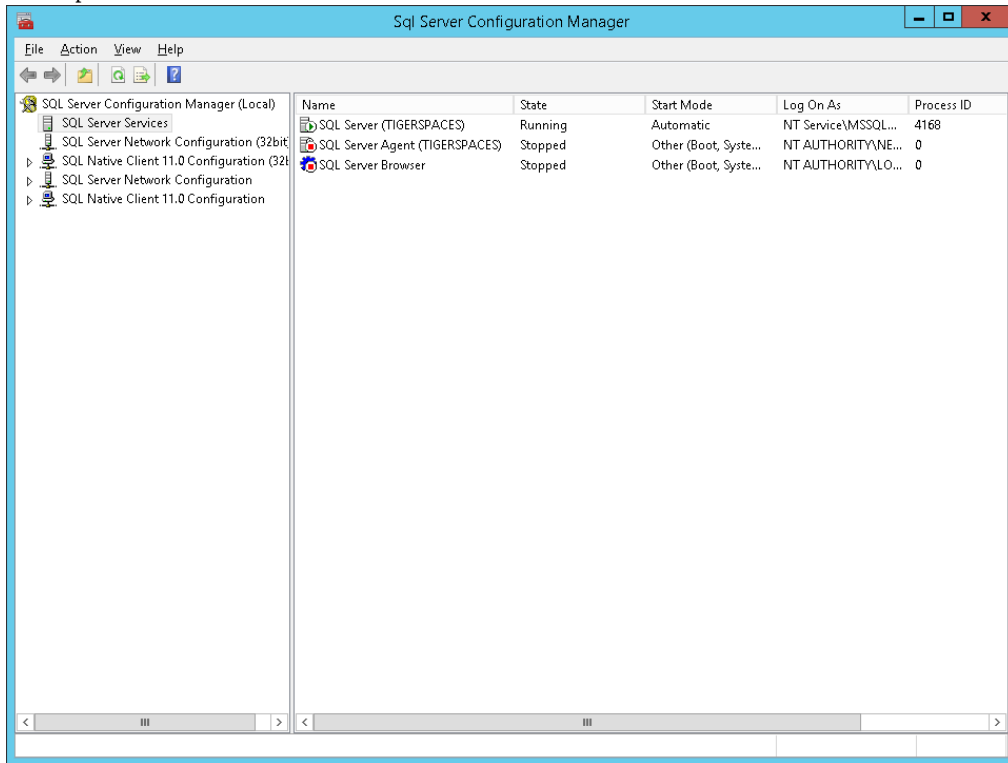
Best Practices

3. In the Server Properties dialog, click Connections in the left pane and in the right pane, make sure the “Allow remote connections to this server” check box is selected, then click OK.



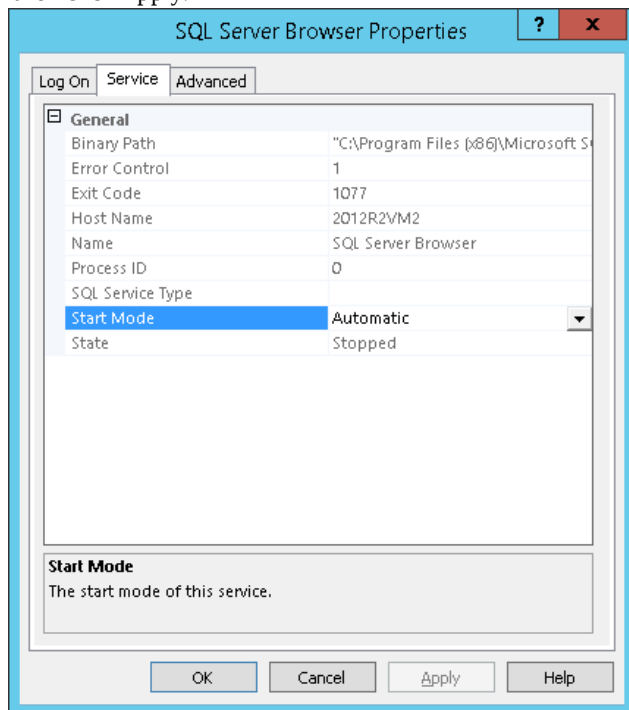
4. Start the SQL Server Configuration Manager.

5. In the left pane click SQL Server Services and in the right pane right-click SQL Server Browser and click Properties in the context menu.

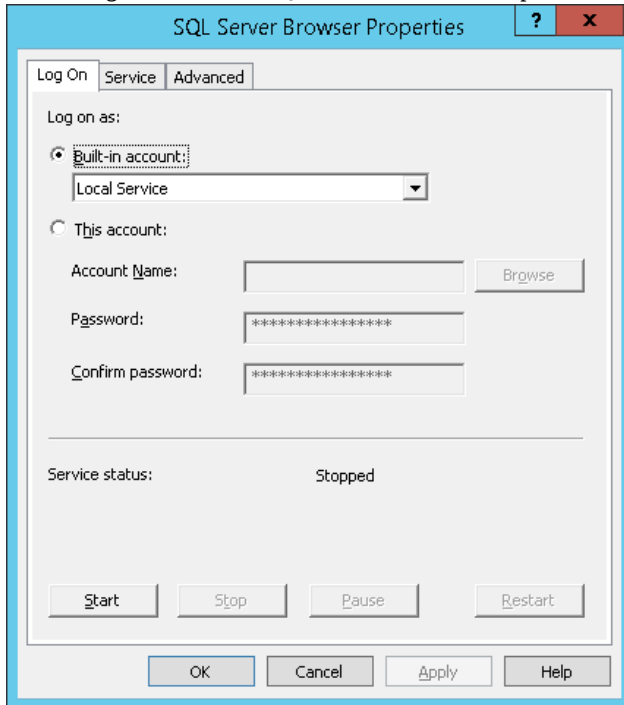


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6. In the Service tab of the SQL Server Browser Properties dialog, select Automatic next to Start Mode and then click Apply.



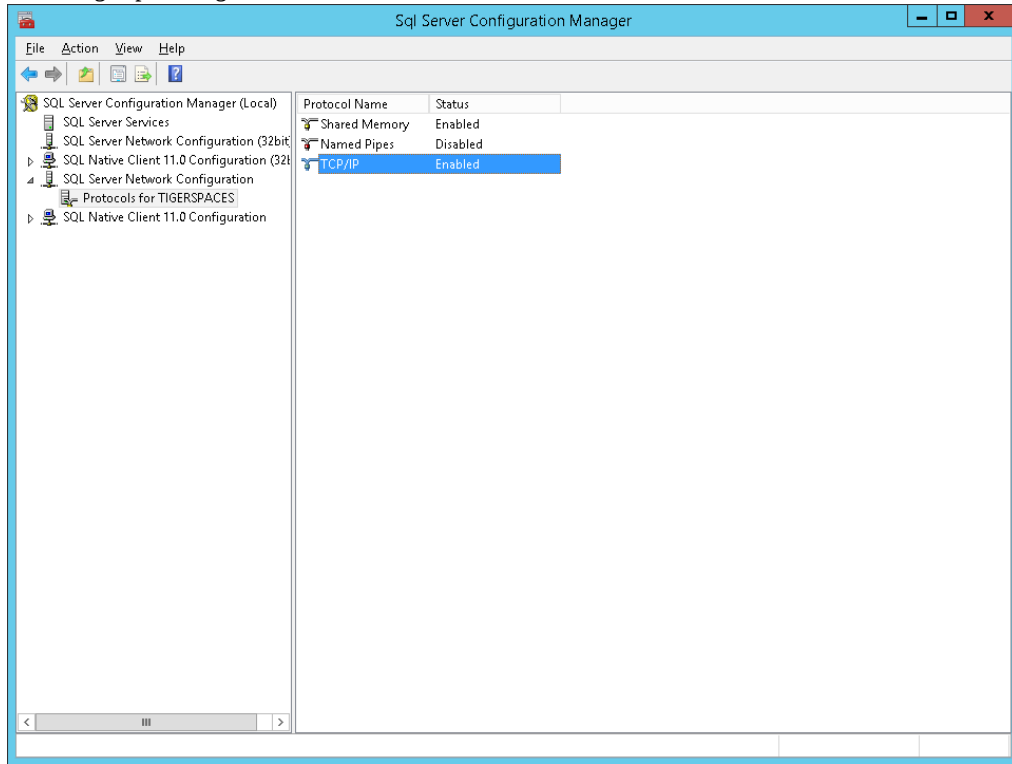
7. In the Log on tab of the SQL Server Browser Properties dialog, click Start and then OK.



8. In the left pane of the SQL Server Configuration Manager, expand SQL Server Network Connections and then select your SQL Server.

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9. In the right pane, right-click TCP/IP and in the context menu click Enable.

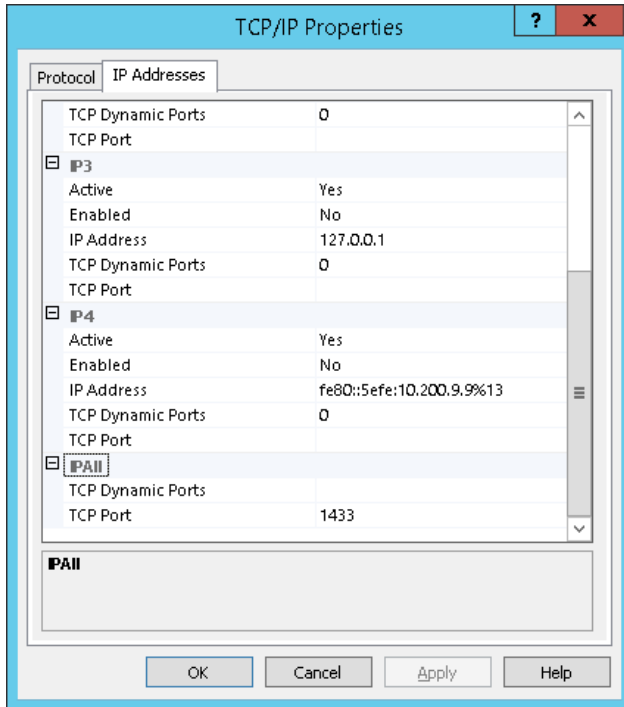


10. In the right pane, right-click TCP/IP and in the context menu click Properties.

11. In the IP Addresses tab of the TCP/IP Properties dialog under IPAll do the following:

- Delete the value for “TCP Dynamic Ports”.
- Enter 1433 as value for “TCP Port”.

- Click OK.



- Restart the SQL Server service.

Tip: You can easily restart the whole SQL Server in the SQL Server Management Studio (SSMS) window, by right-clicking the SQL Server node in the left pane and then clicking Restart in the context menu.

- In the firewall of the computer running SQL Server allow the connection for domain, private and public networks of the following:

- TCP Port 1433
- UDP Port 1434
- sqlservr.exe

Note: For exact steps about allowing connections in the firewall of your computer, refer to the documentation of your operating system.

Utilize an SSL Certificate of Your Choice

The Tiger Spaces web interface is accessible through secure https connection, which by default is authenticated using a self-signed certificate issued by Tiger Technology. If your organization already uses

Best Practices

another SSL certificate - self-signed or CA-signed, you can configure it for use with Tiger Spaces instead of Tiger Technology's self-signed certificate, following the steps below. The only requirements for the certificate is that it operates using a certificate file and a private key file.

To configure the Tiger Spaces' web UI to use another SSL certificate:

1. Rename the certificate file (.crt) and private key file (.key) to the names used by the Tiger Technology self-signed certificate:
server.crt
server.key
2. On the Tiger Spaces server, go to
C:\ProgramData\Tiger Technology\ps\cert
3. Replace the existing server.crt and server.key files with the corresponding files used by your own certificate.
4. Restart the Tiger Spaces server.

Deploy the SSL Certificate on Network Computers

Note: *If you have utilized a CA-signed SSL certificate instead of Tiger Technology's self-signed certificate, as long as network computers have Internet access there is no need to perform the additional steps below.*

By default, each time you access the web interface from other than the Tiger Spaces server computer, you are prompted to confirm that you trust the secure connection. A workaround to this is to configure all network computers to access the web interface using this web address: <https://tigerspaces.internal> instead of the server computer's IP address and then import the self-signed certificate on each network computer.

Note: *There is no need to import the self-signed certificate on computers that use Mozilla Firefox web browser. Mozilla Firefox does not support self-signed certificates, instead it allows you to add an exception for the IP address of the Tiger Spaces server after your first attempt to connect to it.*

Before proceeding with the certificate download and import steps, you must configure your DNS server or, in case your network does not use a DNS server - each computer to resolve requests for access to <https://tigerspaces.internal> to the IP address of the Tiger Spaces server computer. You can do this by either adding a DNS record (on your DNS server) or by editing the Hosts file of the computer.

To download the Tiger Technology self-signed certificate on your computer:

Note: *If you have configured the Tiger Spaces server to use another self-signed certificate, distribute the server.crt file manually among the computers on which you will import it and skip the steps below.*

1. In a web browser, access the IP address of the Tiger Spaces server through secure https connection (https).

For example, if the Tiger Spaces server has IP address 10.200.6.29, in the address bar of a web browser enter the following:

`https://10.200.6.29`

2. On the home page of the Tiger Spaces web interface, click the Downloads button in the upper right corner.
3. Find the certificate file (server.crt) in the list and click Download.

To import the self-signed certificate on a Windows computer:

1. Run Command Prompt as an administrator.

Tip: To run Command Prompt as an administrator, click Start, type `cmd`, right-click Command Prompt and select "Run as administrator".

2. Execute the following:

```
certutil -addstore "Root" <path to certificate file>
```

For example, if the certificate file is stored in C:\temp, execute the following:

```
certutil -addstore "Root" C:\temp\server.crt
```

To import the self-signed certificate on a macOS computer:

Start Terminal and execute the following:

```
sudo security add-trusted-cert -d -r trustRoot -k /Library/Keychains/  
System.keychain <path to certificate file>
```

For example, if the certificate file is stored in the home directory, execute the following:

```
sudo security add-trusted-cert -d -r trustRoot -k /Library/Keychains/  
System.keychain /home/server.crt
```

Upgrade Project Store / Project Serve to Tiger Spaces

While Project Store is a predecessor of Tiger Spaces, the two products differ in several main aspects:

- In contrast to Project Store, Tiger Spaces utilizes a database server - a computer with Microsoft SQL Server installed, which stores and manages the Tiger Spaces database, containing information about all workspaces and data in them. This can be the Tiger Spaces server computer itself or another computer, in case you are deploying Tiger Spaces with high availability.
- Tiger Spaces can be deployed with high availability, even if you are not using a dual-node Tiger Store appliance.
- The workspaces depot can be stored on network shares as well as on Tiger Store-managed volumes.

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- Client computers must run the Tiger Spaces client driver in order to access the workspaces depot.

Before proceeding with upgrading Project Store/Project Serve to Tiger Spaces, make sure the following prerequisites are met:

- the computer intended to run Tiger Spaces meets the minimum system requirements (see “Tiger Spaces Server System Requirements” on page 9).
- there is a computer designated as Tiger Spaces database server - the Tiger Spaces server itself or another computer (if you are deploying Tiger Spaces with high availability), which meets the database server requirements and is configured for work with Tiger Spaces (see “Database Server Requirements” on page 10 and “Configure the Access to the Database Server” on page 18).
- if you are deploying Tiger Spaces with high availability not on a dual-node Tiger Store appliance, the computer designated as a standby node is set up for high availability (see “Configure the High-Availability Cluster IP Address” on page 36).

Tiger Spaces does not offer full upgrade compatibility with Project Store/Project Serve. Once you upgrade your Project Store server computer to Tiger Spaces, you will lose all configuration settings and will have to configure them anew. Following the upgrade procedure described below, you will be able to keep all Project Store/Project Serve users (but without passwords) and all projects (called workspaces in Tiger Spaces) with their type, permissions, description, keywords, preferred mount point on Windows (except if the project uses preferred mount point in a folder), settings for locked project and project template.

To upgrade Project Store to Tiger Spaces:

Note: *If Project Store is installed on a Tiger appliance or you are using Project Serve, contact Tiger Technology support for assistance on upgrading to Tiger Spaces.*

1. Uninstall Project Store without disabling Project Store support on the volumes.
2. (for domain environment only) Rename the two groups on your Active Directory domain controller from “projectStore Users” and “projectStore Admins” to “Tiger Spaces Users” and “Tiger Spaces Admins” respectively.
3. Install Tiger Spaces on the computer (see “Install Tiger Spaces” on page 13).
4. Run the Configuration Wizard and select to use a new database, then configure the access to the computer designated as database server (see “Initial Setup of Tiger Spaces” on page 17).
5. Use the Configuration Wizard to complete the initial setup, activating Tiger Spaces, specifying Active Directory domain and the high-availability cluster IP address, if needed.
6. In the Tiger Spaces web interface, configure the workspaces depot, enabling Tiger Spaces support on the same Tiger Store-managed volumes you have used with Project Store and optionally on the desired network shares (see “Configure the Workspaces Depot” on page 40).
7. In the Tiger Spaces web interface, configure any other settings that might differ from the default ones (enabled/disabled permissions, quotas, hidden volumes settings, etc.).

8. (if Tiger Spaces is deployed in workgroup environment) One by one assign new password to each user (see “Manage Tiger Spaces User Accounts and Groups” on page 44).
9. (for high availability deployment) Install Tiger Spaces on the other computer designated as a high-availability cluster node and run the Configuration Wizard, specifying identical settings except for the database, where you should choose to use an existing database server and specify the access to it.
10. Download and install the Tiger Spaces client driver on each computer accessing the workspaces depot (see “Install Tiger Spaces” on page 13).

Access Workspaces on Samba 3.x Linux Shares from macOS Clients

To provide macOS clients with access to workspaces stored on Samba 3.x Linux shares, you should set them to access these shares using SMB protocol version 2 or above. For more information, refer to the documentation of your operating system.

Transfer Tiger Spaces Data to Another File System

As long as Tiger Spaces support is enabled on a volume/network share, the depot containing all workspaces data is hidden and even if you attempt to copy the contents of the whole volume/network share it may not be copied. That is why, to transfer the contents of the Tiger Spaces depot to another file system, you must first disable Tiger Spaces support on the specific volume/network share in order to unhide the depot. Once you do so, a folder named “tws” containing all data from workspaces stored on this volume/network share will become visible in the root of the file system. You can then normally copy data from the “tws” folder or set a system to back it up.

Important: *If a folder named “tws” already exist in the root of the volume/network share, you cannot disable Tiger Spaces support until you rename that folder.*

Install Tiger Spaces after Tiger Store

In case you want to install Tiger Spaces on a Tiger Store storage server, to ensure the normal functionality of both products, you must first install Tiger Store software and only after that Tiger Spaces.

Specify Domain Name and Access Credentials

In Tiger Spaces, you may need to provide domain information in the following cases:

- when you are adding a NAS appliance, which is accessible in Active Directory domain environment.

Best Practices

- when Tiger Spaces is deployed in Active Directory domain environment.

In both cases it is advisable to provide the name of the domain user account without its domain i.e. “user” instead of “user@domain.com” or “domain.com\user”.

Also, when specifying the domain name, you must use its netBIOS name and not the full DNS name of the domain. For example, if your domain is named “department.example.com”, the netBIOS domain name you must enter would probably be just “example”.

Grant psadmin Account Read and Write Permissions to Volumes

If you want to enable Tiger Spaces on SAN volumes and the storage server operates in Active Directory domain environment, the default administrative account psadmin, which is automatically added to the local administrators group on the storage server, must have Read & Write permissions to the volumes even if you have restricted the permissions of the group itself.

Set Preferred Mount Point of Workspaces on Windows Clients

The setting for preferred mount point of a workspace is part of the global settings of a Windows computer, thus making it valid for all users that log in to the computer. By design, local settings such as mapped network shares always take precedence over global settings. This way, if you specify a preferred mount point of a workspace that uses a drive letter already mapped by a network share, when you attempt to mount the workspace, instead of the workspace drive you will mount the network share.

To avoid such situations, it is advisable to check if the preferred drive letter of a workspace is not already in use.

Avoid Long File Names

As the workspace in the depot are actually stored on either an NTFS volume or a network share, each file operation is subject to the limitations of the underlying file system. On all supported file systems it is advisable to avoid long file names in order to ensure that file operations in the workspaces depot are normally processed.

Generally, on all supported file systems you should try to limit path length (filename included) to below 255 characters.

Avoid Using Hard Links on Network Shares

By default, network file systems don't provide support for hard links. As the Tiger Spaces depot may also comprise network shares, when using hard links in your workspaces you may encounter problems with applications making use of hard links for some of their files, like recording Final Cut Pro X voiceover file in a project, for example.

Export / Move Workspaces Containing FCPX Library with Linked Media

Even without Tiger Spaces, when your Final Cut Pro X project's library contains linked media, should you move the project on the same or another volume, the media in the library will become offline. The same can be observed with Final Cut Pro X project exported outside the Tiger Spaces depot. Even if the linked media is also exported/moved as part of the workspace, it will appear as offline until you re-link it.

Disable File IDs in the Samba Configuration File on macOS

To ensure that macOS clients can normally work on SMB share(s) exported by a Linux computer, it is advisable to disable file IDs setting in the samba configuration file of each macOS client computer following these steps:

1. In Terminal, access the Samba configuration file on the computer:
`/etc/nsmb.conf`
2. Make sure that the file IDs line in the configuration file looks like this:
`file_ids_off=yes`
3. Save the changes to the Samba configuration file and restart the computer.
4. Repeat the above steps on each macOS client computer.



Known Issues

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Supported Storage Known Issues

No Support for Tiger Spaces on a Volume Pool

Currently, you cannot enable support for Tiger Spaces on a volume pool.

Web Interface Known Issues

Accessing the Web Interface Using Private Mode of Safari Web Browser

You cannot access the web interface of Tiger Spaces using private mode in Safari web browser. The problem is related to the inability of Safari to handle local storage when private browsing. The problem is not observed when using private mode (like Incognito mode in Google Chrome, for example) in other supported web browsers.

Accessing the Web Interface with Safari 11.x and Below

It is advisable to access the web interface of Tiger Spaces through Safari browser using version 12.x and above. Using previous versions of Safari browser may result in inconsistent behaviour.

Known Issues in Active Directory Domain Environment

Restarting Tiger Spaces to Apply Domain Info Changes

In some cases, changes you have introduced in the Save Domain Info dialog in the web interface may not be applied until you restart Tiger Spaces. Specifying Active Directory domain info through the Configuration Wizard does not require restart of your Tiger Spaces server.

High Availability Cluster Known Issues

Cluster IP Desynchronization on the Tiger Store Server Nodes

Tiger Spaces high availability is closely dependent on high availability in Tiger Store. When you specify the Tiger Spaces cluster IP address, it is automatically assigned as an additional IP address of the respective network interface of the currently active Tiger Store node. In case of failover, Tiger Store takes care to transfer it to the standby node. Still, if you introduce changes to any of the IP addresses of this network

interface in cluster view, Tiger Store will synchronize the changes on the standby node and as a result will automatically assign a consecutive IP address to the Tiger Spaces cluster.

A workaround to the problem is to manually delete the consecutive cluster IP address on the standby Tiger Store node in node view.

Workspace Quotas Related Known Issues

Mounting and Unmounting Workspaces Which Have Reached Their Quota Limit

When a workspace has reached its quota limit, attempting to mount it on a client computer may fail in the Tiger Spaces' web interface, although the workspace is actually mounted on the computer. This can prevent you from unmounting the workspace in the web interface. Currently, the only workaround to this problem is to free some space in the workspace by deleting some files so that it does not take up all its quota and then close it.

New Quota Setting Lost if Workspace is Moved at the Same Time

It is possible Tiger Spaces to fail to apply the quota setting changes you have introduced, if you also move the workspace to another volume in the Workspace Settings dialog before saving the changes. To ensure that you have applied the changes to the workspace quota, it is advisable to click Submit before moving the workspace and only then re-open the dialog and move the workspace.

Viewing Workspace Drive Size When Quotas are Enabled

When a workspace with a quota is mounted on a client computer, Windows Explorer displays the size of the quota as the size of the workspace drive, while on macOS and Linux, the operating system displays the size of the volume, on which the workspace is stored, as the size of the drive.

Known Issues on Client Computers

Delayed Notifications about File Operations on macOS Clients

In contrast to Windows clients, on macOS clients the notifications about changes in the workspace contents made on another computer (a new file is created or an existing file is renamed/deleted) may not be instantaneous. Depending on when the change is been introduced, macOS clients may have to wait up to 30 seconds to get a notification about it.

Workspace Remains Mounted After Disconnecting from the Storage Server

It is possible a workspace to remain in In Use state in the web interface, when a client computer disconnects from the storage server before dismounting the workspace. You should simply close the workspace in the web interface to change its state to Available.

Workspaces Mounted in the Finder after Disconnecting macOS Client from the Storage Server

It is possible a workspace mounted on a macOS client to remain mounted in the Finder, although the client computer has been disconnected from the metadata controller. In case the client has been physically disconnected, although the workspace is mounted in the Finder, users cannot mount it and work with it. When the client computer has been disconnected through the web interface, the workspace is mounted in the Finder and the client can introduce and save metadata changes to it (delete or rename files and folders), but cannot write data to it.

Mounting Pinned Workspaces After Restarting the Client Computer

It is possible a workspace pinned for your account to not be automatically mounted on your computer after you have restarted your computer. A workaround to the problem is to log out the Tiger Spaces web interface and then log in again.

Missing Proxies

It is possible to lose the proxy media generated for a workspace in the following cases:

- if you move a workspace from one volume/share to another.
- if you disable and then enable again support for Tiger Spaces on a volume/network share.

To regenerate the proxies for the workspace:

1. Clear the proxies of this workspace.
2. Force the generation of proxies for this workspace, by rescanning it.

Running Executable Files Stored in a Workspace on a Network Share

Currently, it is possible that you fail to run executable files that are stored in a workspace located on a network share. If you run into that problem, a workaround would be to copy the executable file locally and run it from there.

No Support for Other Than Microsoft ODBC Driver 13 for SQL Server

Regardless of the version of Microsoft SQL Server version your Tiger Spaces server runs, currently only version 13 of the ODBC driver is supported. If your Tiger Spaces server uses another version of the ODBC driver, you must uninstall it and download and download version 13 from the Microsoft's web site in order to guarantee the proper functionality of the database server.

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