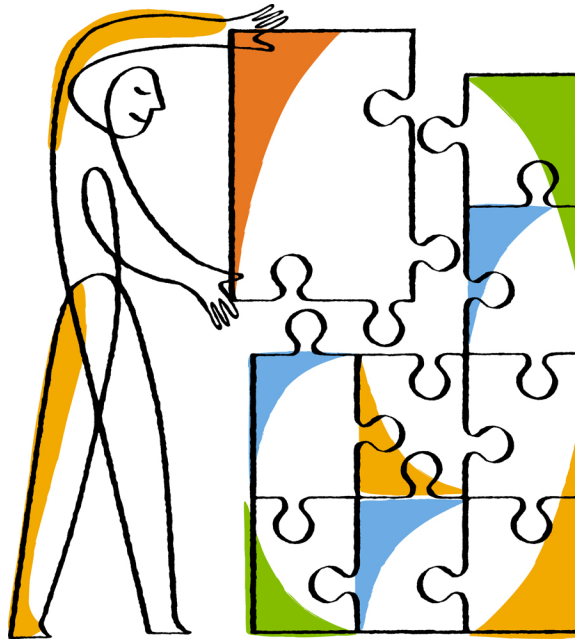




7-Mode Transition Tool 2.2

Installation and Setup Guide



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Contents

Transition to clustered Data ONTAP by using the 7-Mode Transition Tool	4
Comparison of copy-free transition and copy-based transition	5
Interfaces and transition capabilities available on Windows and Linux	6
Installing, upgrading, or uninstalling the 7-Mode Transition Tool on Windows	7
System requirements for the 7-Mode Transition Tool on Windows	7
Installing the 7-Mode Transition Tool on Windows	9
Upgrading the 7-Mode Transition Tool on Windows	10
Enabling login for users not part of the Administrator group	11
Logging in to the 7-Mode Transition Tool	12
Uninstalling the 7-Mode Transition Tool on Windows	13
Installing or uninstalling the 7-Mode Transition Tool on Linux (Copy-based transition only)	14
System requirements for the 7-Mode Transition Tool on Linux	14
Installing 7-Mode Transition Tool on Linux	14
Uninstalling 7-Mode Transition Tool on Linux	15
Modifying the configuration options of the 7-Mode Transition Tool	17
Troubleshooting issues	19
Tool installation fails with an incompatible OS error	19
Installation or uninstallation of the 7-Mode Transition Tool is blocked	19
Reinstalling or upgrading the 7-Mode Transition Tool fails on Windows system	20
Windows Program Compatibility Assistant notification displayed while installing the tool	20
Incorrect Data ONTAP version displayed if the 7-Mode system is upgraded after project creation	20
Copyright information	21
Trademark information	22
How to send comments about documentation and receive update notifications	23
Index	24

Transition to clustered Data ONTAP by using the 7-Mode Transition Tool

The 7-Mode Transition Tool enables you to migrate your data and configurations from 7-Mode to clustered Data ONTAP by using either *copy-based transition* or *copy-free transition*. Understanding each migration method helps you decide which transition method to use.

Copy-free transition

Copy-free transition significantly reduces the migration cost by enabling the reuse of 7-Mode disk shelves. The overall duration for performing the transition is faster because no data copy is required.

In copy-free transition, you disconnect all disk shelves from a 7-Mode HA pair and connect them to an HA pair in the target cluster. The metadata of the 7-Mode aggregates and volumes is converted to the clustered Data ONTAP format by the 7-Mode Transition Tool. The time taken for this conversion is *not* dependent on the size of the aggregates and volumes.

The unit of a copy-free transition is an HA pair. You must move all the disk shelves from the 7-Mode HA pair to the target cluster nodes.

Collecting inventory and running prechecks

You can use the Inventory Collect Tool for collecting 7-Mode inventory. The tool enables you to collect information about 7-Mode systems, hosts, and host applications and to generate an inventory report.

[Inventory Collect Tool 2.2 Host and Storage Information Collection Guide](#)

To assess your 7-Mode systems for copy-free transition, you can create a project by adding a 7-Mode HA pair and the target cluster to the 7-Mode Transition Tool and run prechecks. Prechecks verify that the 7-Mode source systems and configurations can be transitioned to the target cluster.

Importing 7-Mode disk shelves

Copy-free transition involves the following tasks:

- Plan your transition to map 7-Mode controllers or vFiler units to target SVMs and design the namespace.
- Run prechecks to verify the compatibility of the 7-Mode systems and target cluster nodes for transition.
- Import 7-Mode disk shelves from a 7-Mode HA pair to an HA pair in a cluster. The target HA pair must not be serving any data and must include only the root aggregates. Other nodes in the cluster can be serving data.
- Transition 7-Mode configurations to SVMs.
Copy-free transition supports the transition of NAS and SAN configurations.
- Roll back storage and configurations to 7-Mode if transition to clustered Data ONTAP fails.

[7-Mode Transition Tool 2.2 Copy-Free Transition Guide](#)

Copy-based transition

Copy-based transition enables you to collect inventory and assess 7-Mode controllers, hosts, switches, and applications for transition, and then copy your data and configurations from 7-Mode to clustered Data ONTAP.

Copy-based transition uses SnapMirror technology to copy 7-Mode volumes and configurations from Data ONTAP 7G and 7-Mode to clustered Data ONTAP.

Collecting inventory and assessing for transition

You can perform the following collect and assess tasks by using the 7-Mode Transition Tool:

- Collect inventory information from Data ONTAP systems (7-Mode controllers and nodes in a cluster), hosts, switches, and host applications.
- Assess the features and functionalities of the 7-Mode systems, and identify how these features and functionalities work in the clustered Data ONTAP version selected for transition.

Note: The collect and assess functionality is supported only with copy-based transition in 7-Mode Transition Tool 2.2.

Migrating 7-Mode volumes and configurations

You can perform the following copy-based migration tasks by using the 7-Mode Transition Tool:

- Migrate a group of 7-Mode stand-alone volumes or a group of 7-Mode volumes in volume SnapMirror relationships.
- Run prechecks on volumes included in a transition project to verify their compatibility for transition and view possible corrective actions.
- Apply 7-Mode configurations to clustered Data ONTAP before disconnecting client access, thereby reducing the downtime.

Copy-based transition supports the transition of NAS and SAN configurations.

[7-Mode Transition Tool 2.2 Copy-Based Transition Guide](#)

Comparison of copy-free transition and copy-based transition

You can use the 7-Mode Transition Tool to migrate your data and configurations from 7-Mode to clustered Data ONTAP either by using copy-based transition or copy-free transition. It is important to understand the differences between the two methods before transition.

Parameter	Copy-free transition	Copy-based transition
Unit of transition	HA pair	Group of volumes
Hardware requirement	Disk shelves are reused	New disks shelves and disks to host the transitioned volumes
Platform requirement	Supported only on mid-level and high-level platforms <i>NetApp Interoperability Matrix Tool</i>	Supported on all platforms
Transition duration	Overall, shorter transition duration (no data copy required)	Longer duration (initial baseline and update transfer time varies based on workload, network bandwidth, and data capacity being migrated.)

Parameter	Copy-free transition	Copy-based transition
Disruption to data access	<p>In the range of hours</p> <p>Note: The storage cutover time can be 4-8 hours or less that includes time taken for the export and halt, and import operations as well as manually cabling the disk shelves to the new controllers.</p> <p>The export and import operations take about 2 hours or less. Cabling can take 2-6 hours or less.</p>	In the range of minutes

Interfaces and transition capabilities available on Windows and Linux

You must be aware of the features and the user interfaces that are supported before installing the 7-Mode Transition Tool for copy-based transition or copy-free transition.

Migration method	Feature	Supported on Windows	Supported on Linux
Copy-free transition	GUI	Yes	No
	CLI	No You cannot use CLI for creating and managing projects; however, you have to run certain commands, such as commands for ignoring blocking errors, during the transition from the Windows CLI.	No
	Collect and assess	No	No
Copy-based transition	Graphical user interface (GUI)	Yes	No
	Command-line interface (CLI)	Yes	Yes
	Collect and assess	Yes	No

Installing, upgrading, or uninstalling the 7-Mode Transition Tool on Windows

You can download and install the 7-Mode Transition Tool on a Windows system by using the standard wizard-based installer. You can also upgrade to 7-Mode Transition Tool 2.2 from version 2.1. When required, you can uninstall the 7-Mode Transition Tool.

While installing the tool, you must select either copy-based transition or copy-free transition as the migration method.

When upgrading to 7-Mode Transition Tool 2.2 from version 2.1, you can select only copy-based transition as the migration method. You must install a new instance of the 7-Mode Transition Tool to use copy-free transition.

System requirements for the 7-Mode Transition Tool on Windows

You must ensure that the Windows host has the required configuration to install and run the 7-Mode Transition Tool.

Hardware requirements

- Dual-core x64 processor, 1.0 GHz or more
- 8-GB RAM
- 40-GB free disk space

Windows system: software requirements

- Your 64-bit Windows system must be running one of the following:
 - Windows 7 Enterprise
 - Windows 7 Enterprise SP1
 - Windows Server 2008 Standard
 - Windows Server 2008 R2 Standard
 - Windows Server 2008 R2 Enterprise with SP1
 - Windows Server 2012 Standard
 - Windows Server 2012 R2 Standard
 - Windows 8.1 Enterprise
- 64-bit Oracle Java Runtime Environment (JRE) 1.8 update 45

Note: If the Windows host does not have JRE or has 32-bit JRE installed, the 7-Mode Transition Tool installer automatically installs 64-bit JRE 1.8 update 45. If an earlier version of 64-bit JRE is installed, the installer automatically updates it to JRE 1.8 update 45.

When JRE is updated automatically, the other applications that require earlier versions of JRE might be affected.

Server configuration requirements

To access the web interface, you must ensure that the Windows system on which the tool is installed is configured as follows:

- Port 8443 must be available.
If port 8443 is not available, or if you want to use a different port, you must change the port specified by the `tool.https.port` parameter in the `transition-tool.conf` file.
The best practice is to use HTTPS for accessing the web interface. However, if you want to use HTTP for accessing the web interface, port 8088 must be available. For an alternative to port 8088, you must change the port specified by the `tool.http.port` parameter in the `transition-tool.conf` file.
Note: You must restart the 7-Mode Transition Tool service after changing the port in the configuration file.
- The firewall should be either turned off or configured to allow traffic on the port that is used to access the tool.

To transition netgroups and CIFS local users and groups, the following requirements must be met:

- Port 8088 must be available.
For an alternative to port 8088, you must change the port specified by the `tool.http.port` parameter in the `transition-tool.conf` file and then restart the 7-Mode Transition Tool service.
- The firewall should be either turned off or configured to allow traffic on 8088 port or the port specified by the `tool.http.port` parameter in the `transition-tool.conf` file.
- The IP address of the system where the 7-Mode Transition Tool is installed must be pingable from the SVM data LIF.

Client (web interface) requirements

The system that accesses the web interface must have the following:

- One of the following web browsers:
 - Microsoft Internet Explorer 9, 10, or 11
 - Google Chrome 27 or later
 - Mozilla Firefox 20 or later

All browsers must be TLS enabled.

Note: If you are using Microsoft Internet Explorer as your web browser, you must disable SSLv2.

- A screen resolution of 1280 × 1024 or higher

For more information, see the Interoperability Matrix.

Note: Every time you install a new version of the tool, you must clear the browser cache by pressing Ctrl+F5 on the system.

Related tasks

[Verifying support for your configuration in the IMT](#) on page 18

Installing the 7-Mode Transition Tool on Windows

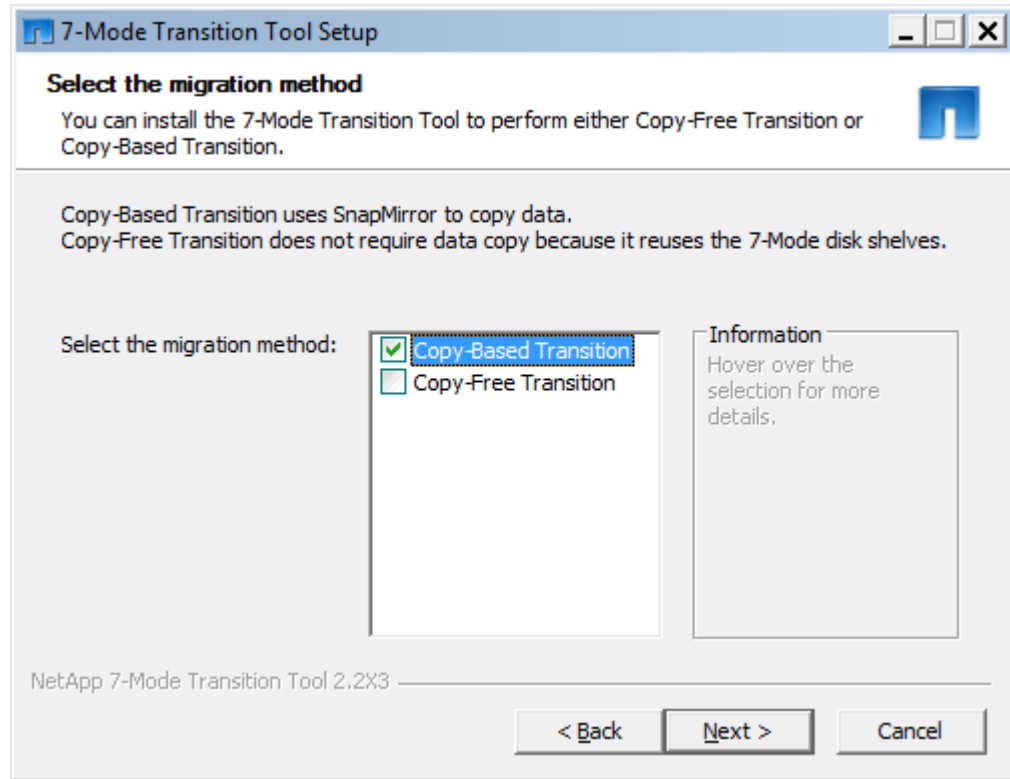
You can install the 7-Mode Transition Tool on your Windows system by using the wizard-based installer. During installation, you must select one of the migration methods: copy-based transition or copy-free transition.

Before you begin

- You must have reviewed the [System requirements for the 7-Mode Transition Tool on Windows](#).
- You must have the necessary administrator privileges to install and launch the application.
- You must have cleared the browser cache by pressing Ctrl+F5.
You must clear the cache every time you install a new version of the tool.

Steps

1. Download the software from the NetApp Support Site.
[NetApp Downloads: Software](#)
2. Run the NetApp_7ModeTransitionTool_Setup.exe file.
3. In the **7-Mode Transition Tool Setup** welcome screen, click **Next**.
4. Select one of the migration methods:
 - Copy-based transition
Enables you to copy 7-Mode volumes and configurations to clustered Data ONTAP by using the SnapMirror technology.
 - Copy-free transition
Enables you to connect 7-Mode disk shelves to target cluster nodes and transition configurations from 7-Mode systems to clustered Data ONTAP.



5. Click **Next** and follow the on-screen prompts to continue with the installation.
6. Optional: Select **Launch the tool** to open the 7-Mode Transition Tool immediately after the installation.
7. Click **Finish** to complete the installation.

Upgrading the 7-Mode Transition Tool on Windows

You can upgrade to 7-Mode Transition Tool version 2.2 from version 2.1 for copy-based transition on your Windows system. Upgrading enables you to view the transition history of completed and aborted projects that were performed from the previous version of the tool.

Before you begin

- You must have reviewed the [System requirements for the 7-Mode Transition Tool on Windows](#).
- You must have the necessary administrator privileges to install and launch the application.
- All projects must be in completed or aborted state.

Note: After the upgrade, all pre-existing projects can only be viewed. If you aborted a project, you cannot resume the transition operations.

- All instances of the tool must be closed.

About this task

When upgrading to 7-Mode Transition Tool 2.2 from version 2.1, you can select only copy-based transition as the migration method. You must install a new instance of the 7-Mode Transition Tool to use copy-free transition.

Steps

1. Download the software from the NetApp Support Site.
[NetApp Downloads: Software](#)
2. Run the `NetApp_7ModeTransitionTool_Setup.exe` file.
3. In the **7-Mode Transition Tool Setup** welcome screen, click **Next**.
4. Select copy-based transition as the migration method.
Because 7-Mode Transition Tool 2.2 is the first release that supports copy-free transition, you can only upgrade the tool for copy-based transition.
5. Click **Next** and follow the on-screen prompts to continue with the upgrade.
The required action is automatically selected as **Upgrade**.
6. Optional: Select **Launch the tool** to open the 7-Mode Transition Tool immediately after the upgrade.
7. Click **Finish**.

Related information*[NetApp Support](#)*

Enabling login for users not part of the Administrator group

By default, users must be members of the Administrator group on the Windows system on which the 7-Mode Transition Tool is installed. At any time, you can enable login for users who are not members of the Administrators group and who cannot install the tool but are authenticated to use the Windows system on which the tool is installed.

Steps

1. Log in to the Windows host by using admin privileges.
2. Modify the configuration file of the tool to enable users who are not part of the Administrator group to log in to the tool:
 - a. Open the `\etc\conf\transition-tool.conf` file from the installation directory.
 - b. Set the value of the `tool.login.non.admin.enabled` parameter in the `transition-tool.conf` file to **true**.
 - c. Save the file.
3. Restart the transition service.
 - a. Click **Start > Control Panel > System and Services > Administrative Tools > Services**.
 - b. Right-click the **Transition Tool** service and click **Stop**.
 - c. Right-click the **Transition Tool** service again and click **Start**.

Logging in to the 7-Mode Transition Tool

You can log in to the 7-Mode Transition Tool (web interface) by using your credentials of the Windows system on which the tool is installed. The procedure to log in varies depending on the type of user credentials you have.

About this task

Guest users are not allowed to log in to the tool.

Steps

1. Navigate to the login page:

If you are a...	Then...
User who is a member of the Administrator group and if you are accessing the tool (web interface) from the server on which it was installed	Double-click the 7-Mode Transition Tool icon on your desktop.
User who is a member of the Administrator group and if you have not installed the tool	<p>Use a supported browser to navigate to one of the following URLs:</p> <ul style="list-style-type: none"> • <code>https://IP_address:port/transition</code> • <code>http://IP_address:port/transition</code> <p><i>IP_address</i> is the IP address of the server and <i>port</i> can be 8443 (default), the value specified for <i>tool.https.port</i>, or 8088, the value specified for the <i>tool.http.port</i> parameter in the <i>transition-tool.conf</i> file.</p>
User who is a member of the Administrator group and if you are accessing the tool (web interface) from another computer	<p>Use a supported browser to navigate to one of the following URLs:</p> <ul style="list-style-type: none"> • <code>https://IP_address:port/transition</code> • <code>http://IP_address:port/transition</code> <p><i>IP_address</i> is the IP address of the server and <i>port</i> can be 8443 (default), the value specified for <i>tool.https.port</i>, or 8088, the value specified for the <i>tool.http.port</i> parameter in the <i>transition-tool.conf</i> file.</p>
User who is not a member of the Administrator group and if you are accessing the tool (web interface) either from the server on which it was installed or from another computer	<p>Use a supported browser to navigate to one of the following URLs:</p> <ul style="list-style-type: none"> • <code>https://IP_address:port/transition</code> • <code>http://IP_address:port/transition</code> <p><i>IP_address</i> is the IP address of the server and <i>port</i> can be 8443 (default), the value specified for the <i>tool.https.port</i>, or 8088, the value specified for the <i>tool.http.port</i> parameter in the <i>transition-tool.conf</i> file.</p>

2. If the browser displays a message about the self-signed SSL certificate, accept the self-signed certificate to continue.
3. Log in to the web interface by using the credentials of the Windows system in which the tool is installed.

Uninstalling the 7-Mode Transition Tool on Windows

You can uninstall the 7-Mode Transition Tool by using the Windows Uninstall program utility.

Before you begin

- You must have completed all in-progress transitions.
Important: Installing a newer version or reinstalling the same version of the tool does not allow you to access the transition operations started by the uninstalled instance.
- If the 7-Mode Transition Tool is running, it must be closed.

About this task

JRE is not removed as part of the uninstallation.

Steps

1. Click **Start > Control Panel > Uninstall a program**.
2. Select the 7-Mode Transition Tool from the list of programs and click **Uninstall**.
3. Complete the wizard to uninstall the 7-Mode Transition Tool.
You can choose to save the subproject details and logs for troubleshooting purposes.

After you finish

You must create a backup of the log files if you chose to retain the log files during uninstallation. The 7-Mode Transition Tool installer installs the tool to the same folder and overwrites the log files the next time you run it.

Installing or uninstalling the 7-Mode Transition Tool on Linux (Copy-based transition only)

You can download and install the 7-Mode Transition Tool on a Linux system by using the command-line interface. When required, you can uninstall the 7-Mode Transition Tool.

You can perform only copy-based transition on a Linux system. Copy-free transition is not supported on Linux.

Important: The 7-Mode Transition Tool web interface is not supported on Linux. You must use the CLI to perform copy-based transition tasks on a Linux system.

System requirements for the 7-Mode Transition Tool on Linux

You must ensure that the Linux host has the required configuration to install and run the 7-Mode Transition Tool.

Hardware requirements

- Dual-core x64 processor, 1.0 GHz or more
- 8-GB RAM
- 40-GB free disk space

Linux system: software requirements

- Your Linux system must be running one of the following:
 - Red Hat Enterprise Linux 5.6
 - Red Hat Enterprise Linux 6.0
 - CentOS release 6.4
- 64-bit Oracle JRE 1.8 update 45
- 7-zip utility (rpmforge-release-0.3.6-1.el5.rf.x86_64.rpm)

Note: JRE 1.8 and the 7-zip utility must be installed on the Linux system before configuring the 7-Mode Transition Tool.

Related tasks

[Verifying support for your configuration in the IMT](#) on page 18

Installing 7-Mode Transition Tool on Linux

You can install the 7-Mode Transition Tool on your Linux system by using the command-line interface.

Before you begin

- You must have reviewed the [System requirements for the 7-Mode Transition Tool on Linux](#).

- You must have root user privileges to install and launch the application.

Steps

1. Download the `tar.gz` file from the NetApp Support Site.

[NetApp Downloads: Software](#)

2. Extract the `tar.gz` file to a directory in the Linux system:

```
tar -xzvf NetApp_7ModeTransitionTool_Setup.tar.gz -C directory_path
```

3. Change the directory to the installation directory:

```
cd directory_path/NetApp_7ModeTransitionTool
```

4. Configure the 7-Mode Transition Tool server:

```
./configure
```

This starts the 7-Mode Transition Tool service on the Linux system.

5. Verify that the 7-Mode Transition Tool service is running on the Linux system:

```
service transition-service status
```

Example

```
bash-4.2# tar -xzvf NetApp_7ModeTransitionTool_Setup.tar.gz -C /
root/Downloads/extracted_folder
bash-4.2# cd /root/Downloads/extracted_folder/
NetApp_7ModeTransitionTool
bash-4.2# ./configure
bash-4.2# service transition-service status
The transition-service (NetApp 7-Mode Transition Tool server) is
running. PID=38384.
```

Related information

[NetApp Support](#)

Uninstalling 7-Mode Transition Tool on Linux

You can uninstall the 7-Mode Transition Tool on Linux by using the command-line interface.

Before you begin

- You must have completed all in-progress transitions.
 - Important:** Installing a newer version or reinstalling the same version of the tool does not allow you to access the transition operations started by the uninstalled instance.
- If the 7-Mode Transition Tool is running, it must be stopped.

About this task

JRE is not removed as part of the uninstallation.

Steps

1. Uninstall 7-Mode Transition Tool by running the following command from the location where you extracted the 7-Mode Transition Tool:

`./unconfigure`

2. Remove the 7-Mode Transition Tool directory:

a. `cd ..`

b. `rm -rf NetApp_7ModeTransitionTool`

Example

```
bash-4.2# cd /root/Downloads/extracted_folder/  
NetApp_7ModeTransitionTool  
bash-4.2# ./unconfigure  
bash-4.2# cd ..  
bash-4.2# rm -rf NetApp_7ModeTransitionTool
```


Modifying the configuration options of the 7-Mode Transition Tool

You can edit the `$INSTALL_DIR\etc\...` file to modify any configuration option that is used by the tool. This file contains information about all the configurable options that are necessary for the tool to operate.

About this task

The file contains various options; for example, you can specify the port on which the tool service starts, and the port that the tool uses to communicate with the 7-Mode system or cluster.

Steps

1. From the system in which the 7-Mode Transition Tool is installed, open the `$INSTALL_DIR\etc\conf\transition-tool.conf` file from the installation directory and modify it.

Example

Port 8443 or 8088 must be available for the 7-Mode Transition Tool to communicate with the 7-Mode system and cluster. If port 8443 or 8088 is not available or if you want to use a different port, you must change the port specified by the `tool.https.port` option in the `transition-tool.conf` file. If port 8088 is not available or if you want to use a different port, you must change the port specified by the `tool.http.port` option in the `transition-tool.conf` file.

2. Restart the 7-Mode Transition Tool service for the new values to take effect:

If your system type is...	Do the following...
Windows	<ol style="list-style-type: none"> a. Click Start > Control Panel > System and Services > Administrative Tools > Services. b. Right-click the Transition Tool service and click Stop. c. Right-click the Transition Tool service again and click Start.
Linux	Run the following command: service transition-service restart

3. After the 7-Mode Transition Tool service is restarted, add the 7-Mode system and the cluster credentials again.

Verifying support for your configuration in the IMT

Before you install or upgrade to a new release of the 7-Mode Transition Tool, you can use the NetApp Interoperability Matrix to verify the system requirements and configurations, such as Data ONTAP versions, platforms, and host operating systems, that are supported for transition.

Steps

1. Access the IMT.
NetApp Interoperability Matrix Tool
2. If 7-Mode Transition Tool is not the selected Storage Solution, click **Change** and select it under the Data Mobility category.



3. In the **Component Explorer** pane, select each component you want to verify and click **Add** when prompted.
When you add an item, incompatible items are grayed out.
Tip: Select the parent of a set of components to select all of its children.
4. When you are satisfied with your choices, click **Show Results**.
The IMT lists each supported configuration.
5. Perform one of the following actions:
 - Scroll across a configuration to view the supported components and any notes or alerts for the configuration.
 - Click the configuration name to display complete information for supported components, including support history and NetApp policies and guidelines for the selected Storage Solution category.
6. If no results are returned for your configuration, use the feedback wizard to report the problem to NetApp:
 - a. Click **Feedback** in the upper-right corner of the IMT.
 - b. Select **I cannot find my configuration** and click **Next**.
 - c. Choose 7-Mode Transition Tool in the **Solution** drop-down list, and then type your comments and click **Submit**.

Troubleshooting issues

You need to be aware of some of the common issues with the 7-Mode Transition Tool and the steps to resolve them.

Tool installation fails with an incompatible OS error

Installation of the 7-Mode Transition Tool fails with the error message 7-Mode Transition Tool is not compatible with this version of Windows.

Workaround

1. Right-click the `NetApp_7ModeTransitionTool_Setup.exe` file, and select **Properties**.
2. In the Compatibility tab, click **Change settings for all users**.
3. Ensure that the **Run this program in compatibility mode for:** check box is not selected, and click **Apply**.

Installation or uninstallation of the 7-Mode Transition Tool is blocked

When you use the 7-Mode Transition Tool installer or the uninstaller to perform any operations (including install, repair, reinstall, upgrade, uninstall, the following error message is displayed: Another instance of NetApp 7-Mode Transition Tool Setup or Uninstall is running. Only one instance can run at a time.

Workaround

Before you begin, ensure that there are no open instances or dialog boxes of the 7-Mode Transition Tool. Otherwise, you might have to perform the steps again.

1. Open **Registry** by clicking **Start**.
2. In **Search programs and files**, enter **RegEdit**.
3. When Registry Editor is open, locate the `HKEY_LOCAL_MACHINE` registry hive.
4. Expand the `HKEY_LOCAL_MACHINE` hive by clicking the expand icon to the left of the folder icon.
5. Continue to expand the registry keys and subkeys until you locate `HKEY_LOCAL_MACHINE\SOFTWARE\NetApp\7-Mode Transition Tool`.
6. Click **7-Mode Transition Tool**.
7. Right-click `INSTALLATION_STATUS`, and select **Modify**.
8. Change the value from `INSTALLER_RUNNING` to `INSTALLED`, and click **OK**.

You should now be able to perform any operation using the 7-Mode Transition Tool installer or the uninstaller.

Reinstalling or upgrading the 7-Mode Transition Tool fails on Windows system

Message

Another instance of NetApp 7-Mode Transition Tool setup or uninstall is running. Only one instance can run at a time.

Cause

Some of the files in the 7-Mode Transition Tool installation folder are open.

Corrective action

1. Close all the 7-Mode Transition Tool installation files.
2. Open the registry entry for 7-Mode Transition Tool:
 - a. Verify the `INSTALLATION_STATUS` field.
 - b. If the value is `INSTALLER_IS_RUNNING`, change it to `INSTALLED`.
3. Retry reinstalling or upgrading the tool.

Windows Program Compatibility Assistant notification displayed while installing the tool

Sometimes while installing the tool, you receive the Windows Program Compatibility Assistant notification that the program might not have installed correctly. This notification does not necessarily indicate that the program did not install correctly.

You can ignore this notification by clicking **This program installed correctly**.

Incorrect Data ONTAP version displayed if the 7-Mode system is upgraded after project creation


Issue

The Data ONTAP version of the 7-Mode system that is shown in the Storage Systems tab is incorrect.

Cause

If the 7-Mode system is upgraded after the project was created, the new Data ONTAP version is not updated in the Storage Systems tab.

Corrective action

In the Storage Systems tab, click  and reenter the credentials of the 7-Mode storage system.

The correct Data ONTAP version is displayed for the 7-Mode storage system.

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Index

7-Mode Transition Tool

- installing and uninstalling on Linux [14](#)
- installing on Linux [14](#)
- installing on Windows [7](#), [9](#)
- logging in to web interface [12](#)
- logging in using the web interface [12](#)
- modifying the configuration file [17](#)
- overview [4](#)
- supported on Linux [6](#)
- supported on Windows [6](#)
- system requirements for Linux [14](#)
- system requirements for Windows [7](#)
- uninstalling [13](#)
- uninstalling on Linux [15](#)
- uninstalling on Windows [7](#)
- unsupported on Linux [6](#)
- unsupported on Windows [6](#)
- upgrading [10](#)
- upgrading on Windows [7](#)

7-Mode Transition Tool is not compatible with this
version of Windows
workaround [19](#)

A

access

- enabling login for users not in Administrator group [11](#)

B

browsers

- supported versions for the web interface [7](#)

C

comments

- how to send feedback about documentation [23](#)

configuration file

- modifying [17](#)

configurations

- verifying support for system [18](#)

copy-based transition

- comparison with copy-free transition [5](#)
- overview [4](#)

copy-free transition

- comparison with copy-based transition [5](#)
- overview [4](#)

D

deciding the transition method

- copy-free transition vs. copy-based transition [5](#)

documentation

- how to receive automatic notification of changes to [23](#)
- how to send feedback about [23](#)

E

error messages

- 7-Mode Transition Tool installer is blocked [19](#)

F

feedback

- how to send comments about documentation [23](#)

I

IMT

- using to verify support for system configurations [18](#)

incompatible OS error

- tool installation fails [19](#)

incorrect 7-Mode version displayed after project

- creation
- troubleshooting [20](#)

information

- how to send feedback about improving documentation [23](#)

installation

- workaround for error message during [19](#)

installation fails

- incompatible OS error [19](#)

installing

- 7-Mode Transition Tool, Linux [14](#)
- 7-Mode Transition Tool, Windows [9](#)

installing on Windows

- 7-Mode Transition Tool [7](#)

Interoperability Matrix

- See* IMT

L

Linux

- installing 7-Mode Transition Tool [14](#)
- supported features, 7-Mode Transition Tool [6](#)
- system requirements for the 7-Mode Transition Tool [14](#)
- uninstalling 7-Mode Transition Tool [15](#)
- unsupported features, 7-Mode Transition Tool [6](#)

logging in

- to the 7-Mode Transition Tool [12](#)

login access

- for users not in Administrator group [11](#)

R

reinstallation fails

- on Windows, corrective action [20](#)

requirements

- for the 7-Mode Transition Tool on Linux [14](#)
- for the 7-Mode Transition Tool on Windows [7](#)

S

- suggestions
 - how to send feedback about documentation [23](#)
- support
 - verifying system configuration [18](#)
- system configurations
 - verifying support for [18](#)
- system requirements
 - for the 7-Mode Transition Tool on Linux [14](#)
 - for the 7-Mode Transition Tool, Windows [7](#)

T

- transition
 - 7-Mode Transition Tool overview [4](#)
 - incorrect Data ONTAP version displayed, troubleshooting [20](#)
 - installing 7-Mode Transition Tool on Windows [9](#)
 - modifying the configuration file for [17](#)
- transition methods
 - copy-based transition compared with copy-free transition [5](#)
- transition-tool.conf file
 - modifying [17](#)
- troubleshooting
 - incorrect Data ONTAP version displayed if the 7-Mode system is upgraded [20](#)

- reinstallation or upgrade fails [20](#)

twitter

- how to receive automatic notification of documentation changes [23](#)

U

- uninstalling
 - 7-Mode Transition Tool [13](#)
 - 7-Mode Transition Tool, Linux [15](#)
- upgrade fails
 - on Windows, corrective action [20](#)
- upgrading
 - 7-Mode Transition Tool [10](#)
- users
 - enabling login for users not in Administrator group [11](#)

W

- web interface
 - troubleshooting [19](#)
- Windows
 - installing 7-Mode Transition Tool [9](#)
 - supported features, 7-Mode Transition Tool [6](#)
 - system requirements for the tool [7](#)
 - uninstalling 7-Mode Transition Tool [13](#)
 - unsupported features, 7-Mode Transition Tool [6](#)
 - upgrading 7-Mode Transition Tool [10](#)