



# **Upgrading from Snap Creator 4.0.x**

## **Snap Creator Framework**

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# Upgrading from Snap Creator 4.0.x

When you upgrade from Snap Creator 4.0.x, the database schema is upgraded.

## Upgrading Snap Creator Server 4.0.x on Windows

You can upgrade directly from Snap Creator Server 4.0.x on Windows.

- If you have any user names that contain special characters in Snap Creator, you must have renamed those users using only alphabetic characters (a through z and A through Z).
- You must have stopped Snap Creator services (`snapcreatorserverservice` and `snapcreatoragentservice`) before backing up the Snap Creator directories to ensure that the backed up data is complete.

For example, you can use the Services snap-in to stop the services:

- a. Select **Start > Run** and enter `services.msc`.
- b. Locate and select the Snap Creator service; then, stop the service. Alternatively, you can open a command prompt and enter the following commands:

```
sc stop snapcreatorserverservice
sc stop snapcreatoragentservice
```

- You must have backed up the following directories, and all associated subdirectories and files, must have been backed up within the Snap Creator 4.0.x Server engine subdirectory (`C:\Program Files\NetApp\Snap_Creator_Framework\scServer4.0.x\engine`):
  - Snap Creator database (`..\snapcreator`)
  - Snap Creator Server properties (`..\etc`)
  - Profiles and configuration (`..\configs`)
  - Logs (`..\logs`) **Note:** You must not have deleted the Snap Creator 4.0.x backup copies that you created.
- (Optional) If the Snap Creator Agent is installed on the same host as the Snap Creator Server, you should have already backed up the `agent.conf` file (`C:\Program Files\NetApp\Snap_Creator_Framework\scAgent4.0.x\config\agent.conf`).

The paths provided in the following steps refer to the default installation path for Windows. Path information might differ from your installation path if the defaults were not used.

After the upgrade process is complete, consider the following issues:

- If the Snap Creator database that is upgraded contains some tasks marked as “in progress”, the state remains the same even after the upgrade process is complete.
- The default administrator in the latest Snap Creator must be an administrator in Snap Creator 4.0.x. If the 4.0.x user is not an administrator, then the upgrade assigns an operator role to the 4.0.x user.
  1. Stop the Snap Creator services if you have not already done so.

For information about stopping the services, see the details provided earlier in this topic.

2. Uninstall Snap Creator (for Windows) by selecting **Start > Programs > Snap Creator > Uninstall NetApp Snap Creator Framework**.

For details, see the information about uninstalling Snap Creator on Windows.

3. Install the latest Snap Creator Server.

For details, see the information about installing the Snap Creator Server on Windows.

4. If you selected to start the Snap Creator Server as a service when you installed the latest Snap Creator Server, then stop the service.

For information about stopping the service, see the details provided earlier in this topic.

5. Delete the latest Snap Creator Server database folder (C:\Program Files\NetApp\Snap\_Creator\_Framework\scServer4.1.x\engine\snapcreator).
6. Copy the backed up Snap Creator 4.0.x database directory to the latest location (C:\Program Files\NetApp\Snap\_Creator\_Framework\scServer4.1.x\engine\snapcreator).
7. Copy the backed up Snap Creator 4.0.x profiles and configuration directory to the latest location (C:\Program Files\NetApp\Snap\_Creator\_Framework\scServer4.1.x\engine\configs).
8. Copy the backed up Snap Creator 4.0.x logs directory to the latest location (C:\Program Files\NetApp\Snap\_Creator\_Framework\scServer4.1.x\engine\logs).
9. Open a command prompt and change the directory to the engine subdirectory in the Snap Creator install path (C:\Program Files\NetApp\Snap\_Creator\_Framework\scServer4.1.x\engine).
10. Upgrade Snap Creator by entering the following command: `java -jar snapcreator.jar -upgrade`

After the upgrade process is complete, start the Snap Creator Server service by doing one of the following:

- Use the Services snap-in and start the service.
- From a command prompt, enter the following command: `sc start snapcreatorserverservice`

Also, you must validate the Snap Creator Framework GUI startup by navigating to the local host on the specified port ([https://IP\\_address:gui\\_port](https://IP_address:gui_port)).

You must connect using HTTPS; otherwise, the connection is not automatically redirected to an HTTPS connection and the GUI will not work.

## Related information

[Installing the Snap Creator Server](#)

[Uninstalling Snap Creator on Windows](#)

# Upgrading Snap Creator Server 4.0.x on UNIX-based systems

You can upgrade directly from Snap Creator Server 4.0.x on UNIX-based systems.

- If you have any user names that contain special characters in Snap Creator, you must have renamed those users using only alphabetic characters (a through z or A through Z).

- You have stopped the Snap Creator processes before backing up the Snap Creator directories to ensure that the backed up data is complete.

For example, enter the following commands:

```
/install_path/scServer4.0.x/bin/scServer stop  
/install_path/scAgent4.0.x/bin/scAgent stop
```

- You have backed up the following directories, and all associated subdirectories and files, within the Snap Creator 4.0.x Server engine subdirectory (/install\_path/scServer4.0.x/engine):
  - Snap Creator database (./snapcreator)
  - Snap Creator Server properties (./etc)
  - Profiles and configuration (./configs)
  - Logs (./logs) **Note:** You must not have deleted the Snap Creator 4.0.x backup copies that you created.

The paths provided in the following steps refer to the default installation path. The paths in the commands below might differ from your installation path.

After the upgrade process is complete, you should consider the following issues:

- If the Snap Creator database that is upgraded contains some tasks marked as "in progress," then the state remains the same even after the upgrade process is complete.
- The default administrator in the latest Snap Creator must be an administrator in Snap Creator 4.0.x. If the 4.0.x user is not an administrator, then the upgrade assigns an operator role to the 4.0.x user.
  1. Stop the Snap Creator processes if you have not already done so.

For information about stopping the processes, see the details provided earlier in this topic.

2. Install the latest Snap Creator, but do not start the Snap Creator Server service.

For details, see information about installing the Snap Creator Server on UNIX.

3. Copy the backed up Snap Creator 4.0.x database directory to the latest location (/install\_path/scServer4.1.x/engine/snapcreator).
4. Copy the backed up 4.0.x profiles and configuration directory to the latest location (/install\_path/scServer4.1.x/engine/configs).
5. Copy the backed up 4.0.x logs directory to the latest location (/install\_path/scServer4.1.x/engine/logs).
6. Change directories to the engine subdirectory in the Snap Creator install path (/install\_path/scServer4.1.x/engine).
7. Upgrade Snap Creator by entering the following command: `java -jar snapcreator.jar -upgrade`

After the upgrade process is complete, start the Snap Creator Server service by entering the following command:

```
/install_path/scServer4.1.x/bin/scServer start
```

Also, delete the Snap Creator 4.0 installation directory.



Do not delete your backup copies until you are certain that you do not need to revert to an older version.

You must also validate the Snap Creator Framework GUI startup by navigating to the local host on the specified port ([https://IP\\_address:gui\\_port](https://IP_address:gui_port)).

You must connect using HTTPS; otherwise, the connection is not automatically redirected to an HTTPS connection and the GUI will not work.

### Related information

[Installing the Snap Creator Server on UNIX-based systems](#)

## Upgrading Snap Creator Agent 4.0.x on Windows

You can upgrade directly from Snap Creator Agent 4.0.x on Windows.

- You have stopped Snap Creator Agent service (`snapcreatoragentservice`) before backing up the Snap Creator Agent directories to ensure that the backed up data is complete.

For example, you can use the Services snap-in to stop the service:

- a. Select **Start > Run** and enter `services.msc`.
- b. Locate and select the Snap Creator Agent service; then, stop the service. Alternatively, you can open a command prompt and enter the following command:

```
sc stop snapcreatoragentservice
```

- You have backed up the following directories, and all associated subdirectories and files, within the Snap Creator Agent directory (`C:\Program Files\NetApp\NetApp_Snap_Creator_Framework\scAgent4.0.x`):
  - `agent.conf` file (`..\config\agent.conf`)



If you have Snap Creator Server installed on the same system, you might have already backed up this file when you upgraded Snap Creator Server 4.0.x.

- Logs directory, if enabled (`..\logs`)
- Plug-ins directory (`..\plugins`)

Snap Creator Agent in versions prior to 4.1 used a file named `agent.conf` to list commands outside of Snap Creator that might be executed on Snap Creator Agent. In 4.1, the `allowed_commands.config` file is used.

Similarly, the `agent.conf` file listed hosts that Snap Creator Agent was allowed to communicate with. By default, Snap Creator Agent allowed communications with all Snap Creator Servers. However, if you chose to use this feature in previous versions of Snap Creator, the `AUTHORIZED_HOSTS` parameter in the `agent.properties` file now replaces that feature.



If you did not use these parameters, a simple installation of the new agent is all that is required.

The paths provided in the following steps refer to the default installation path for Windows. Path information might differ from your install path if the defaults were not used.

1. Stop the Snap Creator Agent service if you have not already done so.

For information about stopping the service, see the details provided earlier in this topic.

2. Uninstall Snap Creator (for Windows) by selecting **Start > Programs > Snap Creator > Uninstall NetApp Snap Creator Framework**.

For details, see information about uninstalling Snap Creator on Windows.

3. Install the latest Snap Creator Agent.

For details, see the information about installing the Snap Creator Agent on Windows.

4. Open the backed up copy of the agent.conf file in a text editor.

Following is an example of agent.conf:

```
host: scServer@Tampico
command: sdcli.exe
```

5. Open the new allowed\_commands.config file (C:\Program Files\NetApp\Snap\_Creator\_Framework\scAgent4.1.x\etc\allowed\_commands.config) in a text editor and copy the command line from agent.conf into the allowed\_commands.config file; however, due to the enhanced security in the latest Snap Creator, make sure that the command is fully qualified.

From the previous example, the allowed\_commands.config file should contain the following:

```
command: "C:\Program Files\NetApp\SnapDrive\sdcli.exe"
```



Because of the space between "Program Files", quotation marks must be included to encapsulate the command. If the command does not contain any spaces, then quotation marks are not needed.

You can add commands as needed, with each command on a separate line.

6. Save and close the file.
7. Open the agent.properties file (C:\Program Files\NetApp\Snap\_Creator\_Framework\scAgent4.1.x\etc\agent.properties) in a text editor and change the default entry of AUTHORIZED\_HOSTS=\* to reflect the host setting in the agent.conf file.

From the previous example, the AUTHORIZED\_HOSTS parameter should contain the following:

```
AUTHORIZED_HOSTS=Tampico
```

Hosts can be added as needed, using commas to separate host names. Both host names and IP addresses are supported:

```
AUTHORIZED_HOSTS=Tampico, 10.10.10.192, Fuji01
```

8. Save and close the file.
9. Start the Snap Creator Agent service by doing one of the following:
  - Use the Services snap-in and start the service.
  - From a command prompt, enter the following command: `sc start snapcreatoragentservice`  
**Note:** Any changes to the `allowed_commands.config` or `agent.properties` files require restarting Snap Creator Agent if it is running when the changes are made.

## Related information

[Installing Snap Creator Agent on Windows](#)

[Uninstalling Snap Creator on Windows](#)

# Upgrading the Snap Creator Agent 4.0.x on UNIX

You can upgrade directly from Snap Creator Agent 4.0.x on UNIX.

- You have stopped Snap Creator Agent before backing up the Snap Creator Agent directories to ensure that the backed up data is complete.

For example, enter the following command:

```
/install_path/scAgent4.0.x/bin/scAgent stop
```

- You have backed up the following directories, and all associated subdirectories and files, within the Snap Creator Agent directory (`/install_path/scAgent4.0.x`):
  - `agent.conf` file (`./config/agent.conf`)
  - Logs directory, if enabled (`./logs`)
  - Plug-ins directory (`./plugins`)

Snap Creator Agent in versions prior to 4.1 used a file named `agent.conf` to list commands outside of Snap Creator that might be executed on Snap Creator Agent. In 4.1, the `allowed_commands.config` file is used.

Similarly, the `agent.conf` file listed hosts that Snap Creator Agent was allowed to communicate with. By default, Snap Creator Agent allowed communications with all Snap Creator Servers. However, if you chose to use this feature in previous versions of Snap Creator, the `AUTHORIZED_HOSTS` parameter in the `agent.properties` file replaces that feature.



If you did not use these parameters, a simple installation of the new agent is all that is required.

The paths provided in the following steps refer to the default installation path. The paths in the commands below might differ from your installation path.

1. Stop Snap Creator Agent if you have not already done so.



For information, see the details provided earlier in this topic.

2. Install the latest Snap Creator Agent, but do not start the Snap Creator Agent.

For details, see the information about installing Snap Creator Agent on UNIX.

3. Open the backed up copy of the agent.conf file in a text editor.

The following is an example of the agent.conf file:

```
host: scServer@Lyon
command: rc_domino
```

4. Open the new allowed\_commands.config file (/install\_path/scAgent4.1.x/etc/allowed\_commands.config) in a text editor and copy the command line from agent.conf to the allowed\_commands.config file; however, due to the enhanced security in the latest Snap Creator, make sure that the command is fully qualified.

From the previous example, the allowed\_commands.config file should contain the following:

```
command: /etc/init.d/rc_domino
```



If the command contains any spaces, then you must encapsulate the command within quotation marks.

You can add commands as needed, with each command on a separate line.

Save and close the file after making changes.

5. Open the agent.properties file (/install\_path/scAgent4.1.x/etc/agent.properties) in a text editor and change the default entry of AUTHORIZED\_HOSTS=\* to reflect the host setting in the agent.conf file.

From the previous example, the AUTHORIZED\_HOSTS parameter should contain the following:

```
AUTHORIZED_HOSTS=Lyon
```

Hosts can be added as needed, using commas to separate host names. Both host names and IP addresses are supported:

```
AUTHORIZED_HOSTS=Lyon, 10.10.10.192, Fuji01
```

Save and close the file after making changes.

6. Start Snap Creator Agent by entering the following command:

```
/install_path/scAgent4.1.x/bin/scAgent start
```



Any changes to the `allowed_commands.config` or `agent.properties` files require restarting the Snap Creator Agent if it is running when the changes are made.

## Related information

[Installing the Snap Creator Agent on UNIX-based systems](#)

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