



Cisco Smart Software Manager On-Prem Migration Tool Quick Start Guide

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SSM On-Prem Migration tool Information

Introduction

At present, the SSM On-Prem virtual deployment is supported on ESXi7.x and ESXi8.x and the underlying Operating System is CentOS. **CentOS is going EOL(End-of-Life)**, so the latest version of SSM On-Prem application is built on AlmaLinux 9 operating system.

The Migration is two-step process:

1. **CentOS Server side:** Run the Migration script on the SSM On-Prem 8-202404 to obtain a backup file.
Note:
The user needs to have root level access to the SSM On-Prem console.
2. **AlmaLinux Server side:** Run the migration script with the backup file from **Step1** on new Virtual Machine deployed with SSM On-Prem 9-202406.

Note:

- a) For On-Prem in HA set up, ensure to tear down HA in the CentOS SSM-OnPrem 8-202404, keeping a note of the Active Node.
- b) Setup two machines running AlmaLinux SSM On-Prem 9-202406 with the same network configuration such as IP, Subnet, Gateway, and DNS as of the 8-202404 CentOS setup.
- c) Run the below migration steps in the Active Node after tearing down the HA. Apply the migration on the AlmaLinux SSM On-Prem 9-202406 machine and ensure this machine is the active node and setup HA between the two AlmaLinux SSM On-Prem 9-202406 machines.
- d) Ensure that the VIP, Private IPs, Network Configuration of the new setup is identical to that of 8-202404 CentOS setup.

Steps to Migrate SSM On-Prem from 8-202404 (CentOS) to 9-202406 (AlmaLinux)

It is recommended to perform the migration in maintenance window. The migration may take up to 1-5 hours of down time for SSM On-Prem production, based on the customer's deployment footprint.

Carry out the following steps in CentOS Server side (SSM On-Prem 8-202404):

Before you begin:

- a. It is very important to have DB backup.
- b. If your **ESXi/VM ware** supports snapshots, take the snapshot and keep it ready.

Procedure:

1. Copy the Migration Script to the patches: (`/var/files/patches`) folder on SSM On-Prem 8-202404.

```
copy <your username>@<your remote host.com>:/path/migrate_configs.sh
patches:
copy<your username>@<your remote
host.com>:/path/migrate_configs.sh.sha256 patches:
```

Note:

- a) Non-STIG Customers can alternatively use scp or winSCP to copy the scripts to `/var/files/patches`.

```
scp <your username>@<your remote host.com>:/path/migrate_configs.sh*
/var/files/patches
```

- b) The user needs to have root level access to SSM On-Prem console.

2. Run the following command in On-Prem console:

```
upgrade patches:migrate_configs.sh
```

3. A backup file is created in `/var/files/backups` folder.
4. A message “Migration is complete” is printed mentioning the backup file and path.
5. Copy the backup file to a safe external server (Power down the SSM On-Prem server after copying the migration backup file).

Note:

If you prefer to transfer the migration backup file from an external machine (using tools such as **WinSCP**), you should change the ownership of the migration backup file (**this note is not applicable for STIG Customers**) to `admin:admin` using following example command:

```
chown admin:admin onprem-migration-20240625214926.tar.gz
```

Carry out the following steps in AlmaLinux Server (SSM On-Prem 9-202406):**Before you begin:**

- a. Deploy a new virtual machine with SSM On-Prem version 9-202406.
- b. Make sure CentOS based SSM On-Prem server (8-202404) is powered down.

- c. Setup the Alma Linux 9-202406 machine in DISA-STIG mode if your 8-202404 (CentOS) machine was in DISA-STIG Mode during installation. This step is optional for Non-STIG On-Prem deployments.
- d. Make sure that the AlmaLinux based new Virtual Machine with SSM On-Prem Version 9-202406 is configured with the same Network configuration (IP, Subnet, Gateway, and DNS) as the CentOS based SSM On-Prem 8-202404.

Procedure:

1. Copy migration backup file obtained in [Step #3 \(SSM On-Prem server 8-202404\)](#) to AlmaLinux based SSM On-Prem server (9-202406) to the location `"/var/files/backups"`.

```
copy <your username>@<your remote host.com>:/path/migrate_configs.sh
patches:
```

```
copy <your username>@<your remote
host.com>:/path/migrate_configs.sh.sha256 patches:
```

```
copy <your username>@<your remote
host.com>:/path/migration_backup_filename backups:
```

2. Run the following command in On-Prem console:

```
upgrade patches:migrate_configs.sh
```

3. Enter the name of the migration backup file when prompted.
4. After the successful execution of the migration script, the SSM On- Prem server reboots.
5. After the server has restarted, verify that the On-Prem server is communicating with devices and CSSM server.
6. Verify Network configuration of all network interfaces to confirm they are correctly configured.