

# Create and Restore a Cisco Security Manager Backup

## Contents

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[Introduction](#)

[Prerequisites](#)

[Create a Backup on CSM Server on GUI](#)

[Create a Backup on CSM Server on CLI](#)

[Restore a Backup on CSM Server](#)

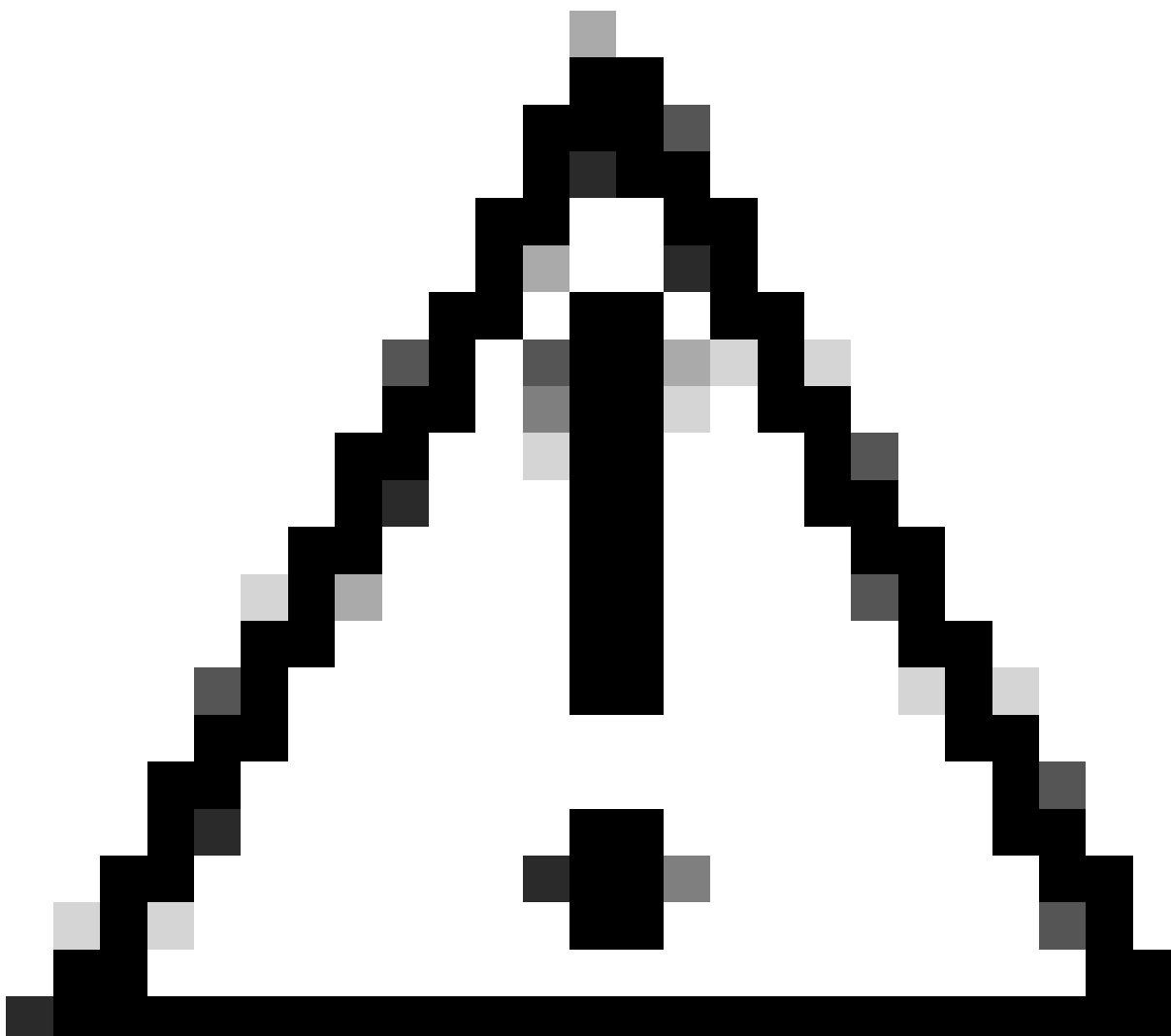
[Related Information](#)

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## Introduction

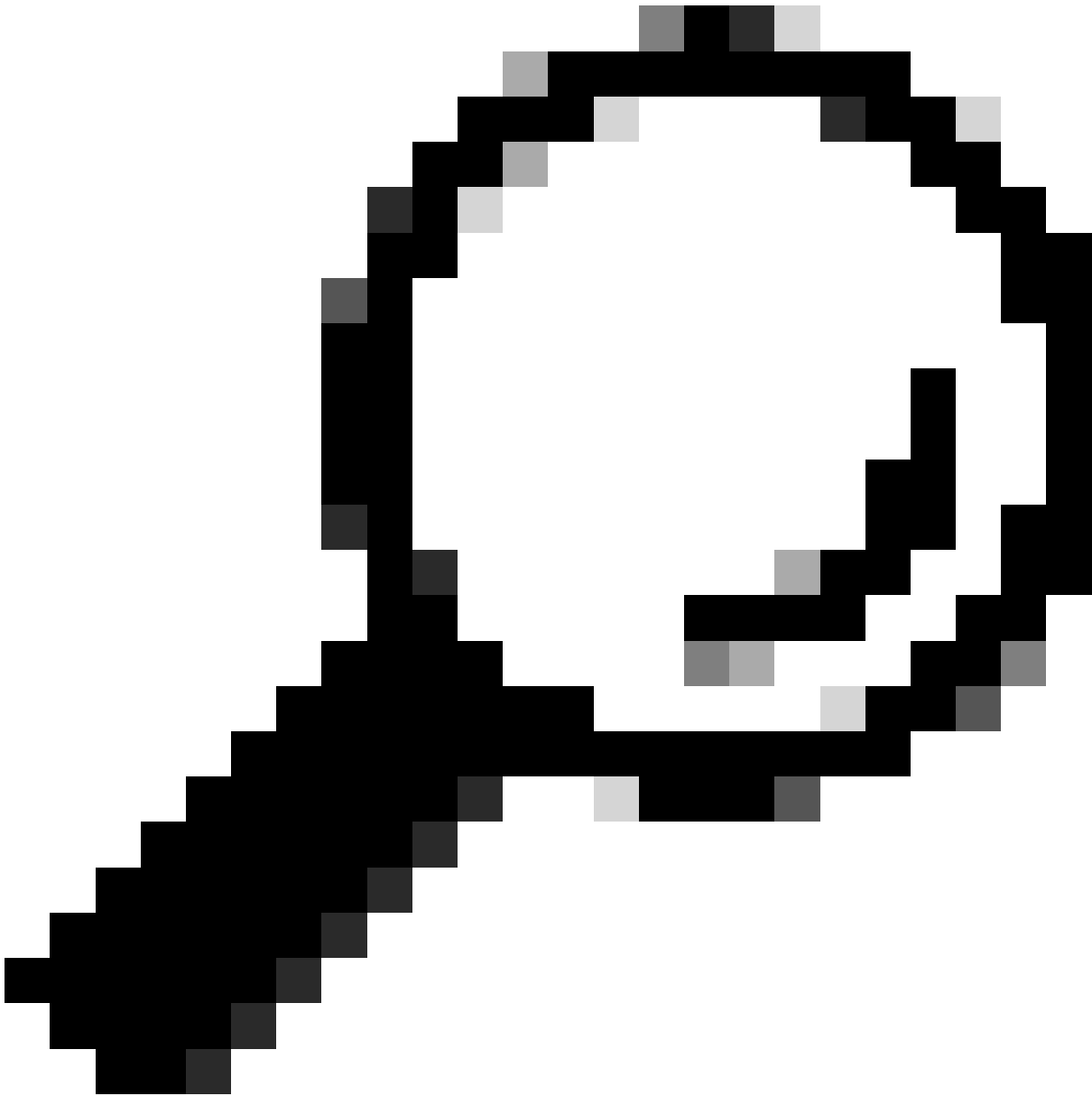
This document describes the procedure to create a Cisco Security Manager (CSM) backup file and how to restore it on a CSM Server.

## Prerequisites



**Caution:** Event data used by Event Manager service is not included when performing a CSM database backup.

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**Tip:** If reporting database needs to be excluded from complete backup file, the backup.properties file must be changed under property called SKIP\_RPT\_DB\_BACKUP to YES.

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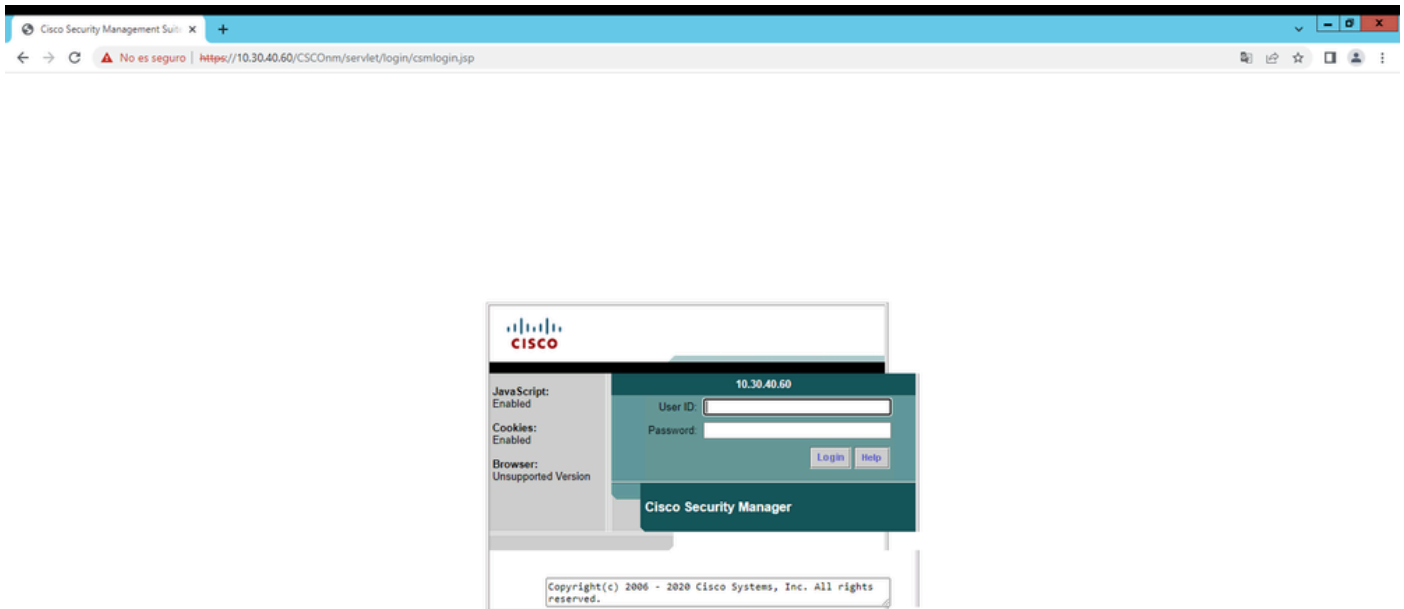
When performing either backup or restore activities, both Common Services and Security Manager processes are turned off and restarted.

## **Create a Backup on CSM Server on GUI**

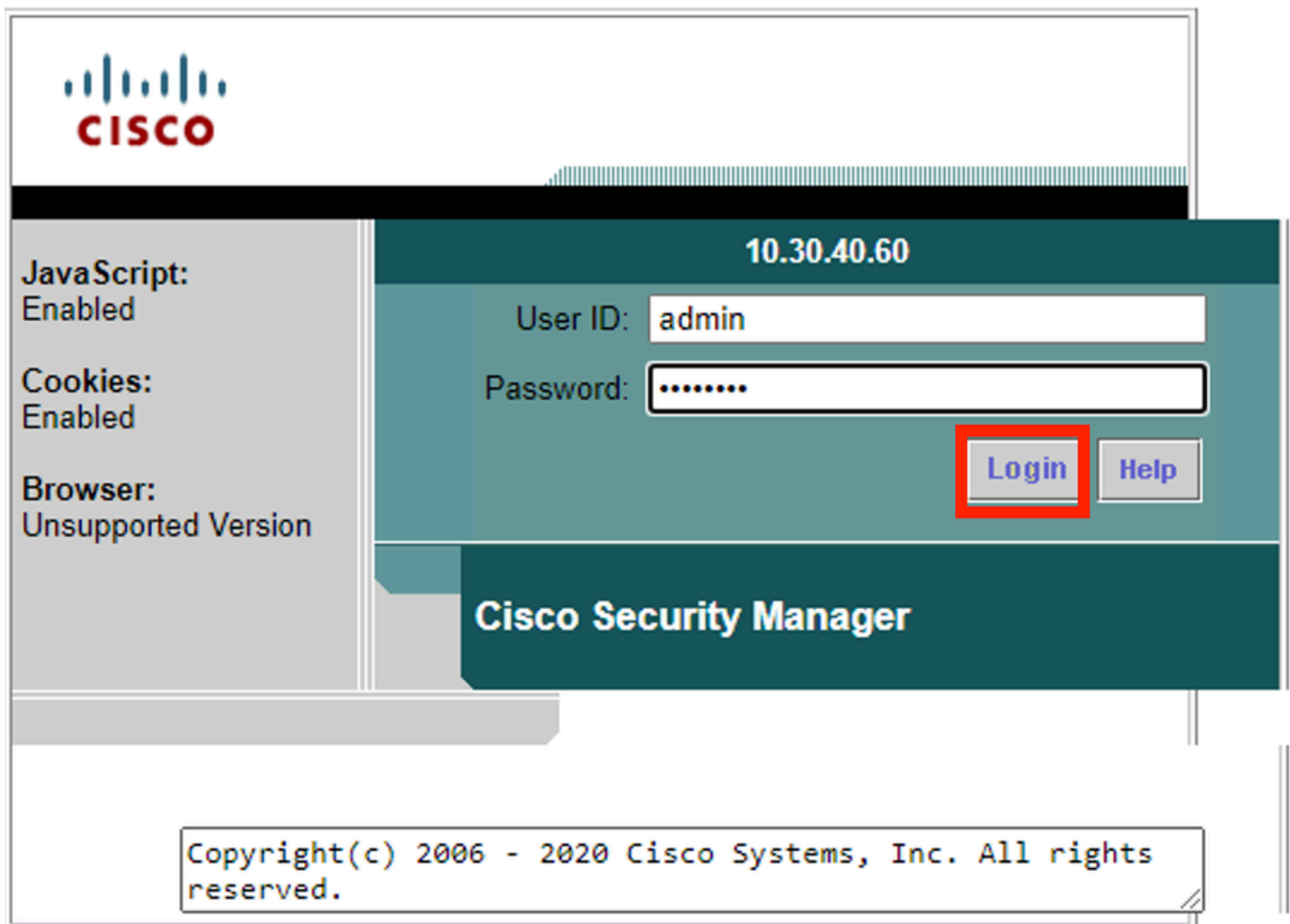
These steps describe how to create a Backup for a CSM Server through Graphical User Interface:

Step 1. Open a Web browser and enter the IP address of the CSM server:

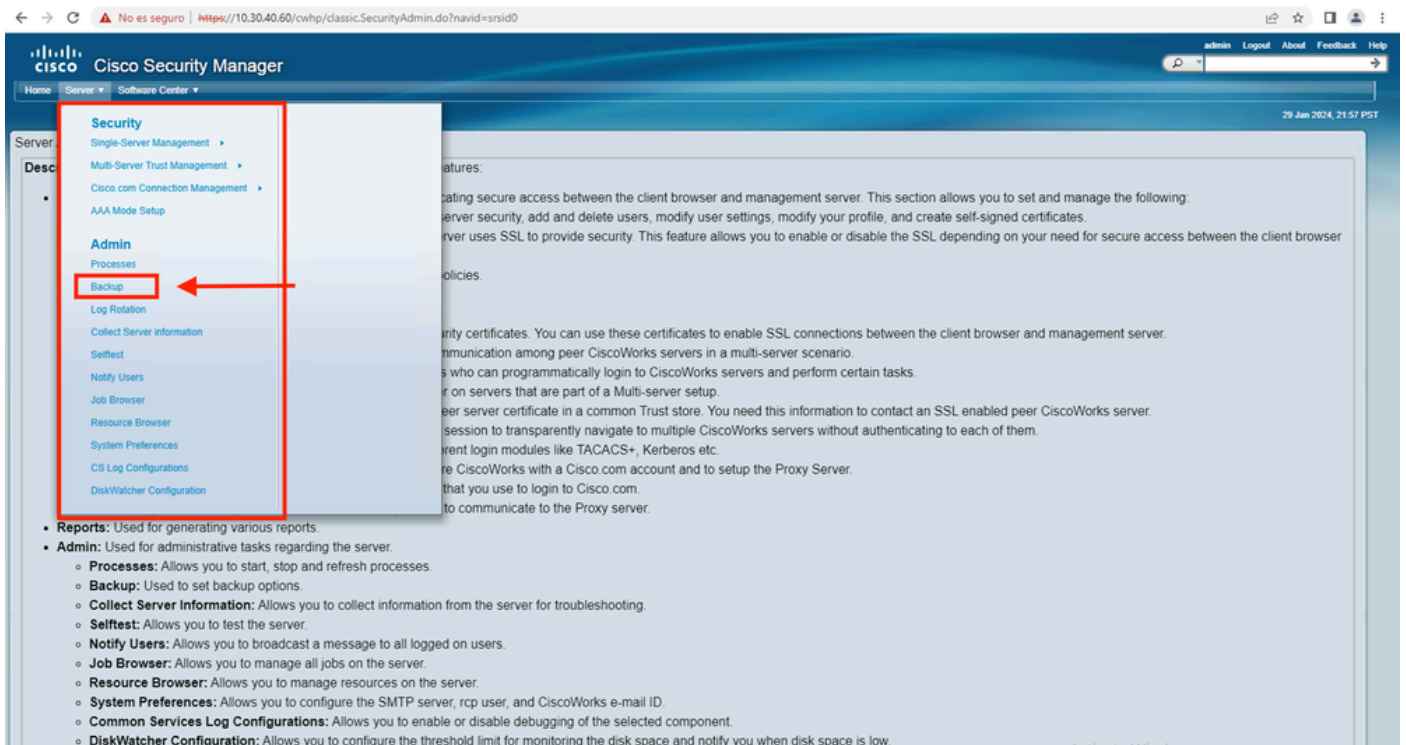
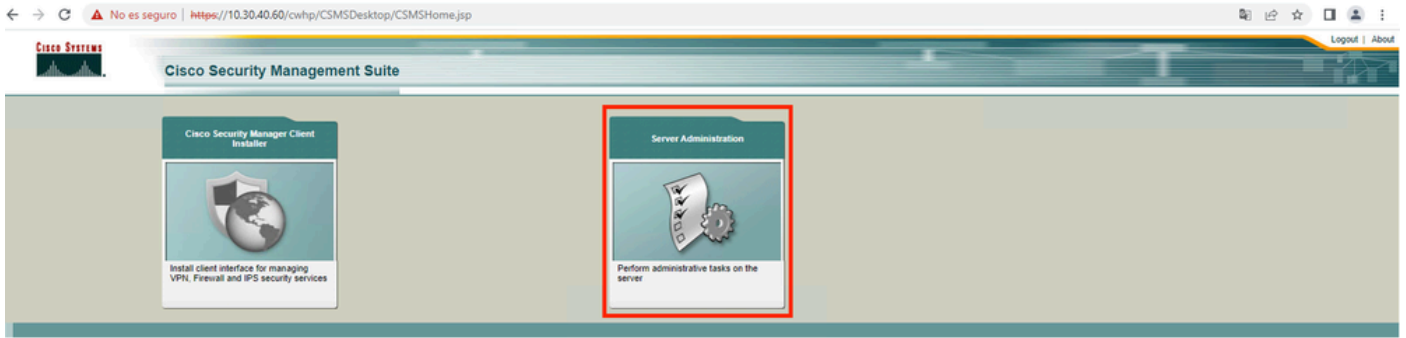
[https://IP\\_Address\\_of\\_CSM\\_Server\\_Here](https://IP_Address_of_CSM_Server_Here)



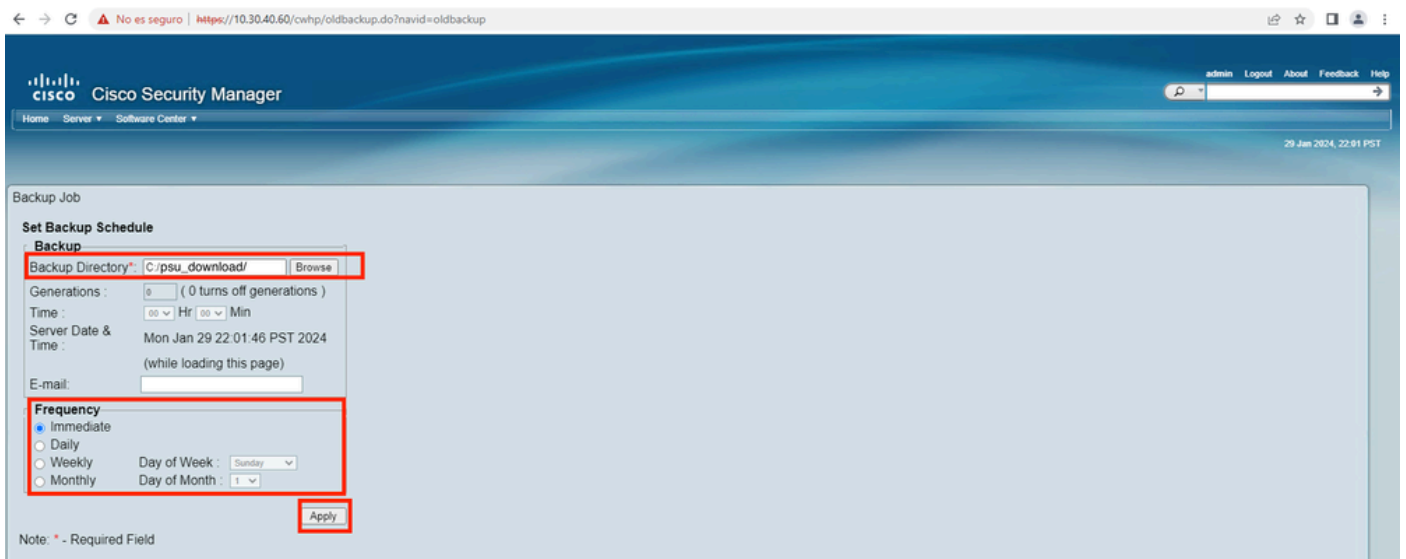
Step 2. Enter the credentials to access CSM Administration and then click the **login** button.



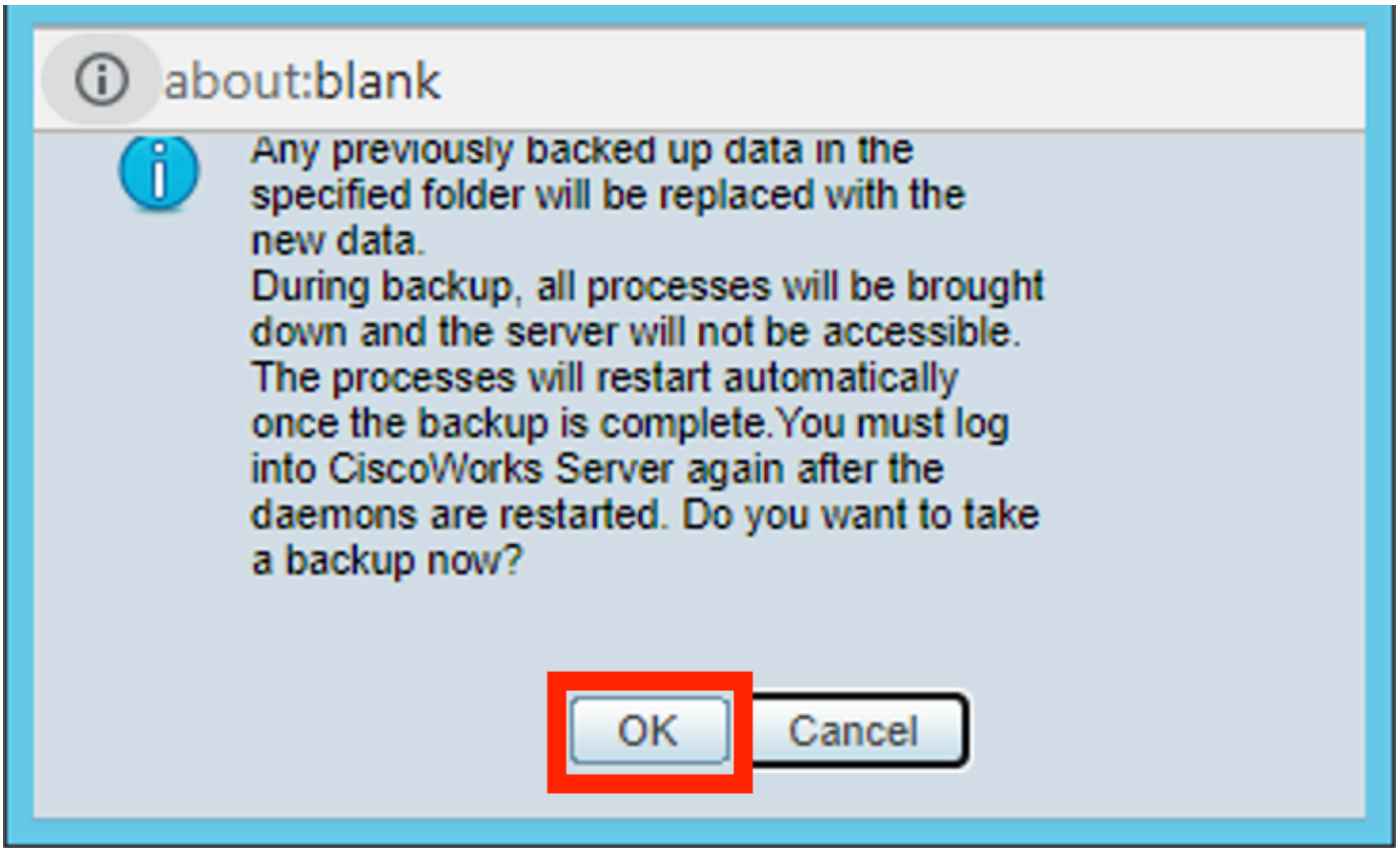
Step 3. Navigate to **Server Administration > Server > Backup**.



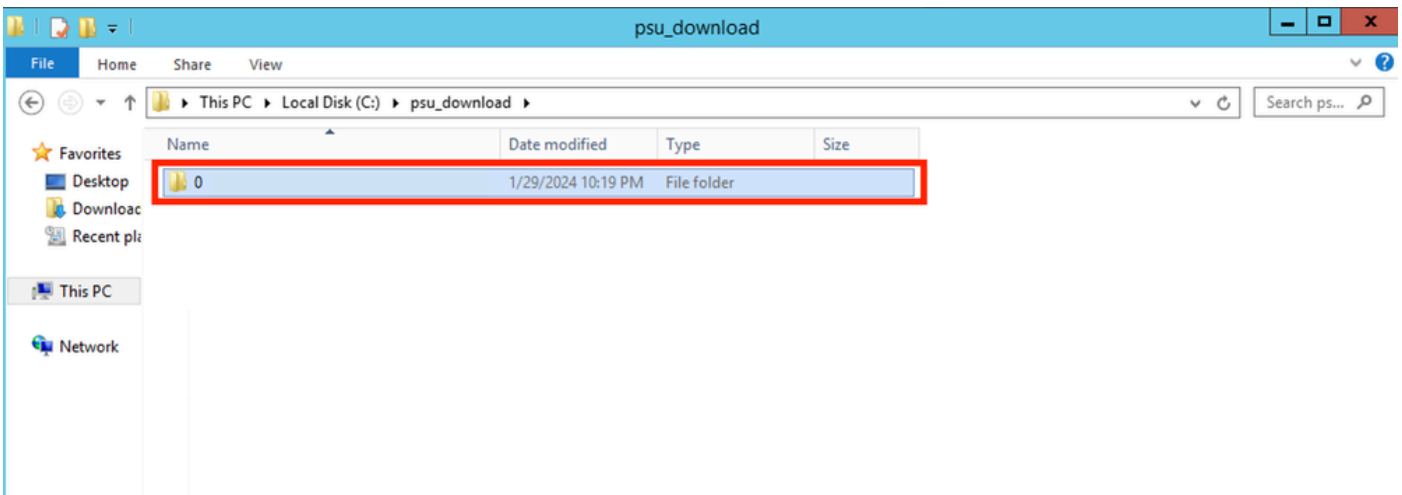
Step 4. Choose the desired directory for backup to be saved, then select the frequency of the backup, and finally click **Apply**.



Step 5. A popup Window appears asking if you want to proceed with backup now. Click **OK**.



Step 6. Once the backup is complete, go to the folder that you defined on step 4 and verify the Backup file is in there. The default name of the backup folder created is 0.





**Note:** Inside folder 0, there are three subfolders:

-CMF

-RPT

-VMS (This folder contains the CSM database information)

The total size of backup depends on the configuration and the number of devices managed by the CSM.

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## **Create a Backup on CSM Server on CLI**

These steps describe how to do a backup of a CSM server through Command Line Interface (CLI):

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**Note:** The next steps assume that the default installation folder is:

C:\Program Files (x86)\CSCOpX\

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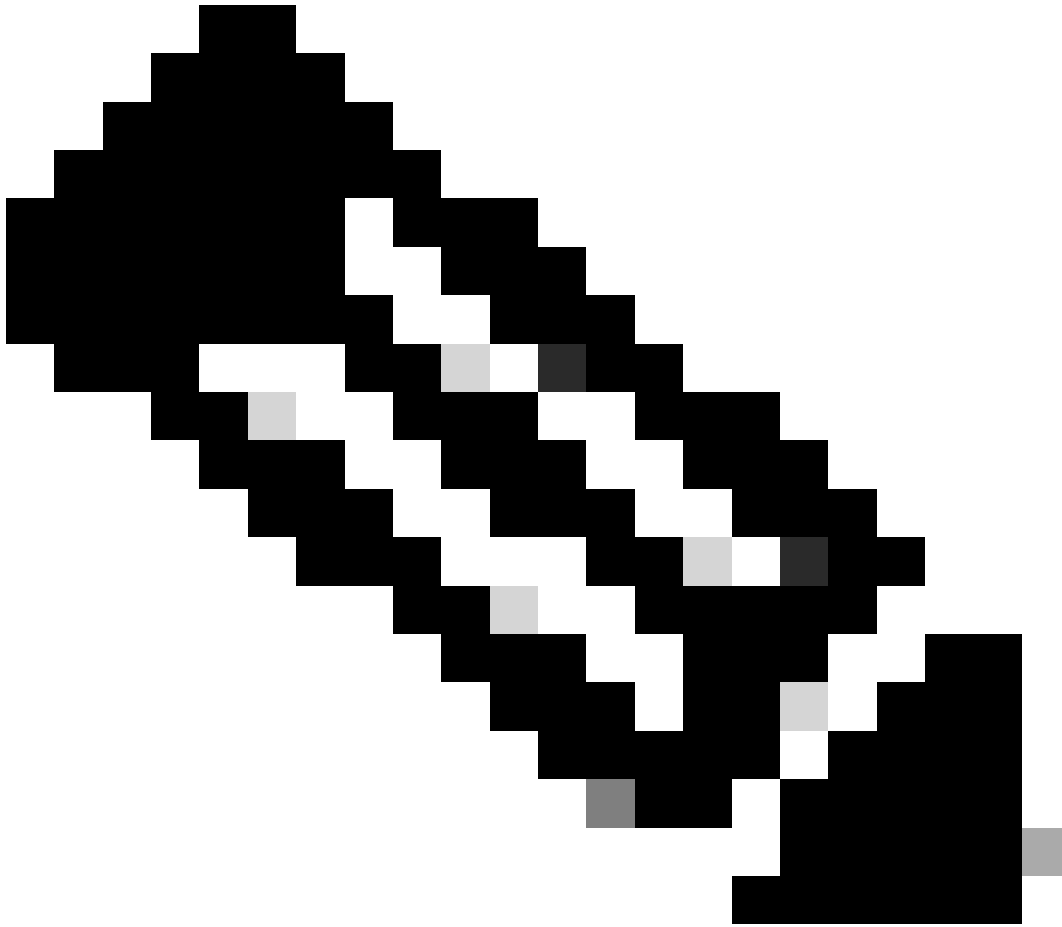
Step 1. Open a command line on Windows and enter this command to start backup CSM task:

<#root>

```
C:\PROGRA~2\CSCOpX\bin\perl C:\PROGRA~2\CSCOpX\bin\backup.pl C:\psu_download 0 compress
```

```
PS C:\Program Files (x86)\CSCOpX\bin> C:\PROGRA~2\CSCOpX\bin\perl C:\PROGRA~2\CSCOpX\bin\backup.pl C:\psu_download 0 compress
*****Executing log clean process*****
PURGE_DBBACKUP_LOG days-----20
The file or directory you are searching does exist : true
Purge Db Backup log Success
```





**Note:**

The compress parameter on that command is optional and helps to compress the backup file.

Additionally, there are two other optional parameters:

email =email\_address.- Specify the email address if you want to receive notifications. But remember you must configure SMTP settings in CiscoWorks Common Services to receive these notifications.

log\_filename.- This is important if you want to verify the logs messages generated during backup for troubleshooting purposes.

The order of these parameters on backup command is:

```
[path ]perl [path ]backup.pl backup_directory [log_filename [email=email_address [number_of_gener
```

---



**Warning:**

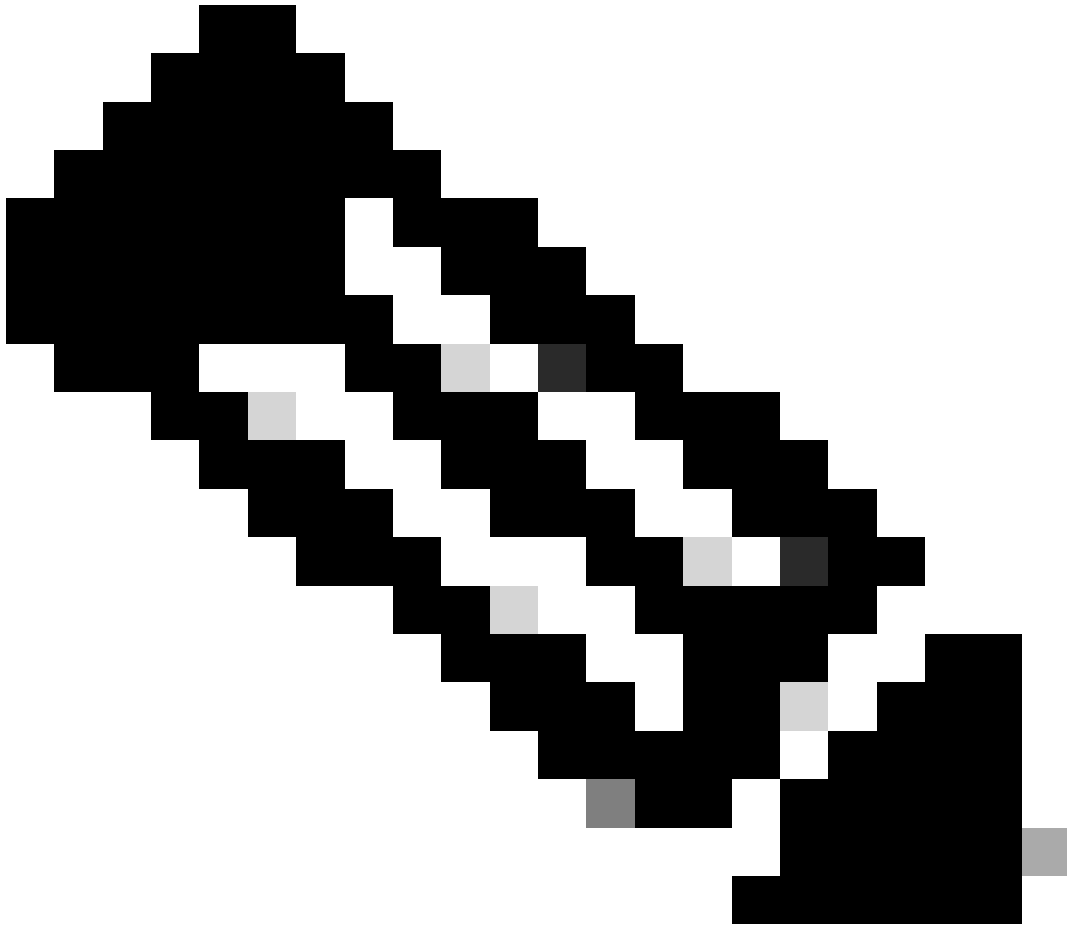
You cannot restore a backup from an earlier version of Security Manager if that backup contains any pending data, which is data that has not been committed to the database. Before upgrading to a new version of Cisco Security Manager, it is recommended that you commit or discard all uncommitted changes and then create a backup of your database.

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Step 2. Verify that the file is generated in the destination folder previously configured.

## **Restore a Backup on CSM Server**

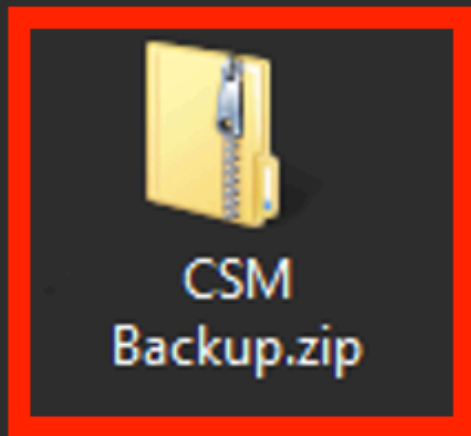
These steps describe how to restore a CSM Backup through CLI:



**Note:** There is a script that helps to restore your CSM database backup from CLI. These steps show how to use it.

---

Step 1. Make sure the proper backup file is already on the CSM server before starting the restore.



Step 2. Open a command line on Windows Server and enter this command to stop CSM processes:

<#root>

```
net stop crmdmgt
```

A screenshot of a Windows PowerShell terminal window titled 'Administrator: Windows PowerShell'. The window has a blue header bar. The terminal text is as follows:

```
Windows PowerShell
Copyright (C) 2014 Microsoft Corporation. All rights reserved.

PS C:\Windows\system32> net stop crmdmgt
The Cisco Security Manager Daemon Manager service is stopping..._
```

Step 3. Restore the previous backup file with this command on CLI:

<#root>

```
C:\PROGRA~2\CSCOpX\bin\perl C:\PROGRA~2\CSCOpX\bin\restorebackup.pl -d C:\8
```



**Note:** This command contains the path of the perl.exe and the restorebackup.pl files, and also the directory where you desire to save the backup on the example is C:\8.

---

```
PS C:\Program Files (x86)\CSC0px\bin> C:\PROGRA~2\CSC0px\bin\perl C:\PROGRA~2\CSC0px\bin\restorebackup.pl -d C:\8
Email :
```

```
Restore started at : 2024/01/09 17:13:17
Please see 'C:\PROGRA~2\CSC0px\log\restorebackup.log' for status.
```

```
USER ID is ..... : tac
OS of the backup archive is..... : Windows
Generation to be restored is ..... : .
Backup taken from..... : C:\8
Common Services version in the backup data is.. : 4.2.2

Common Services is installed in..... : C:\PROGRA~2\CSC0px
The temp folder for this restore program..... : C:\PROGRA~2\CSC0px\tempBackupData
Applications installed on this machine ..... : [Common Services][rpt][vms]
Applications in the backup archive ..... : [Common Services][aus][rpt][vms]
```

```
WARNING: The list of applications installed on this CiscoWorks server does not match the list of
applications in the backup archive. If you restore data from this backup archive, it may
cause problems in the CiscoWorks applications.
Do you want to continue the restore operation? (y-continue or n-quit, y/n)?y
```

```
Applications to be restored are..... : [Common Services] [rpt] [vms]
Size of filebackup.tar.gz ..... : 2615435872
Size of filebackup.tar ..... : 15222323712
Size of filebackup.tar.gz ..... : 2615435872
Size of filebackup.tar ..... : 15222323712

Available disk space in NMSROOT..... : 474138132 Kb
Required disk space in NMSROOT..... : 49215059 Kb
(The temp and NMSROOT are on same device, therefore this required disk space includes temp space)
```

```
Copying the backup files to the temporary location [C:\PROGRA~2\CSC0px\tempBackupData]
Un-compressing filebackup.tar.gz of vms
Un-compression successful!!
INFO: The tailored version of vms.info in Backup Dir is 4220.
INFO: The tailored version of vms.info in current system is 4220.
```

```
preRestore of [Common Services] has started.
preRestore of [Common Services] has completed.
```

```
preRestore of [rpt] has started.
preRestore of [rpt] has completed.
```

```
preRestore of [vms] has started.
```

```
VMS license check started.
```

```
VMS license check completed.
```

```
preRestore of [vms] has completed.
```

```
doRestore of [Common Services] has started.
```

```
License check started.
License check completed.
```

```
Restoring certificate.
```

```
WARNING: Cannot evaluate the hostname, hence the certificate
may be from this host or another host.
```

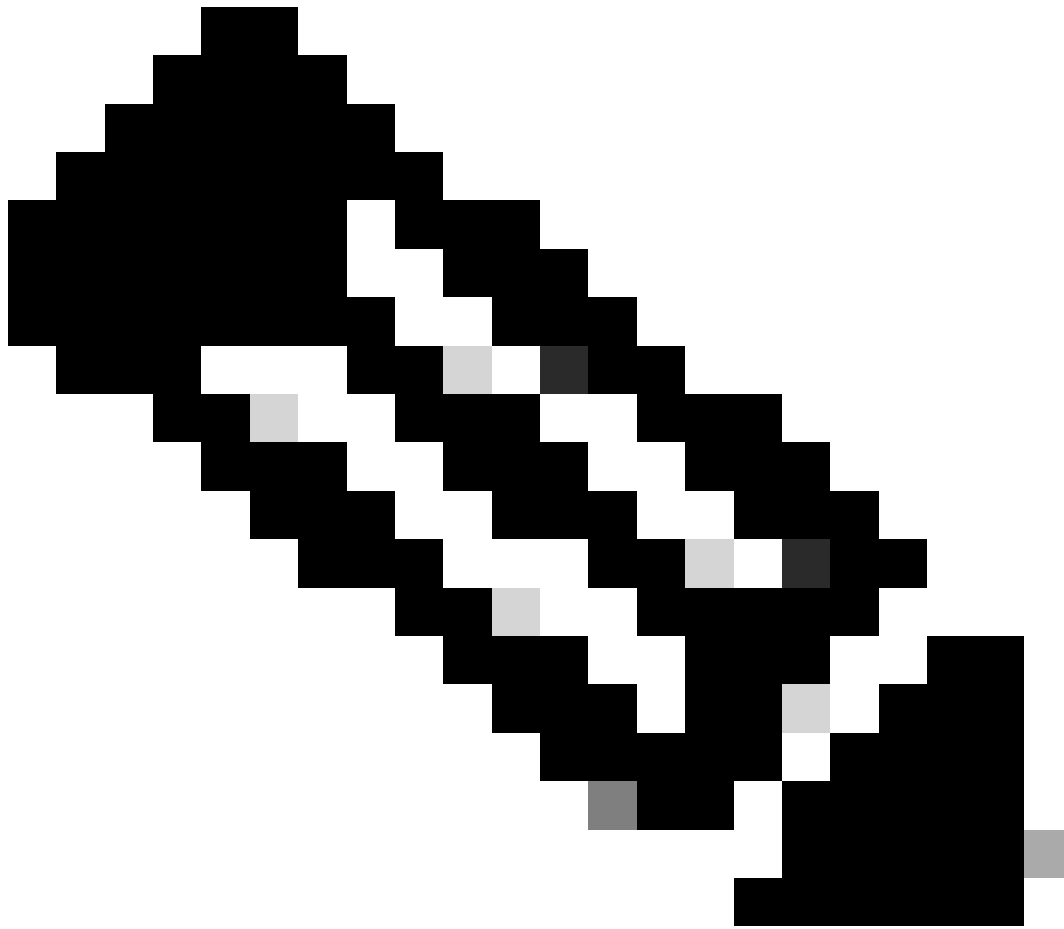
```
[ Certificate not overwritten ]
```

```
Restored Certificate.
```

```
Restoring Common Services database.
Restored Common Services database.
```

```
Restoring CMIC data.
Restored CMIC data.
```

```
Restoring CMC data.
Restored CMC data.
```



**Note:** If everything is ok you receive a **Restored Successfully** message when the script finishes executing.

---

Restoring Security Settings.  
Restored Security Settings.

Restoring DCR data.  
Restored DCR data.

Restoring Certificate key store.  
Restored Certificate key store.

Restoring DCM CrossLaunch data.  
Restored DCM CrossLaunch function.

Restoring JAAS configuration.  
Restored JAAS configuration.

JRM Job Migration started.  
JRM Job Migration done.

doRestore of [Common Services] has completed.

doRestore of [rpt] has started.  
doRestore of [rpt] has completed.

doRestore of [vms] has started.  
doRestore of [vms] has completed.

postRestore of [Common Services] has started.  
postRestore of [Common Services] has completed.

postRestore of [rpt] has started.  
postRestore of [rpt] has completed.

postRestore of [vms] has started.  
postRestore of [vms] has completed.

Changing the registry value If Process Monitor is Enabled

```
C:\PROGRA~2\CSC0px>reg Delete "HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Cisco\Resource Manager\CurrentVersion\Daemons\ProcessMonitor" /v Auto /f
The operation completed successfully.
```

```
C:\PROGRA~2\CSC0px>reg Add "HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Cisco\Resource Manager\CurrentVersion\Daemons\ProcessMonitor" /v Auto /t REG_DWORD /d "1"
The operation completed successfully.
```

```
0
[SC] ChangeServiceConfig SUCCESS
[SC] ChangeServiceConfig SUCCESS
[SC] ChangeServiceConfig SUCCESS
```

Restored successfully.

```
PS C:\Program Files (x86)\CSC0px\bin>
```



---

**Note:** Other optional parameters you can use on the restore command path are:

<#root>

```
CSM_path\bin\perl CSM_path\bin\restorebackup.pl [-t temporary_directory ] [-gen generationNumber
```

-t temporary\_directory   Restore program stores its temporary files. By default this directory is \$NMSROOT\tempBackupData.

-gen generationNumber   The backup generation number you want to recover. By default, it is the latest generation. If generations 1 through 5 exist, then 5 is the latest.

-d backup\_directory      The backup path that contains the backup to restore.

-h                        Provides help for this restore command.

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Step 4.Restart the CSM processes again with this command:

<#root>

```
net start crmdmgtd
```

```
PS C:\Program Files (x86)\CSC0px\bin> net start crmdmgtd
The Cisco Security Manager Daemon Manager service is starting.
The Cisco Security Manager Daemon Manager service was started successfully.
```

## Related Information

- [CSM Installation and Upgrade Guides](#)