

安全经理4.3服务器备份建议

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简介

本文描述常见问题遇到与Cisco Security Manager (CSM)备份并且提供解决方案给那些问题。

背景信息

本文在CSM遇到的常见问题提供信息4.3。当本文着重CSM 4.3时，很可能，同样问题和解决方案适用于其他版本。

思科沃克斯普通的服务管理所有服务器应用的数据库。普通的服务备份/恢复工具用于为了备份与恢复数据库。有两种方式备份CSM数据库：

1. 共同性服务GUI
2. 在CSM服务器的CLI

共同性服务GUI

注意：一备份请求终止下来所有进程。在此时间服务器不可访问。一旦备份完成，进程自动地重新启动。

数据库备份在CSM服务器存储。如果目录名称没有指定，默认目录名称是"0"。在目录里面，有三个文件夹：

- CMF
- RPT
- VM

数据库备份的大小取决于配置和CSM管理的设备数量。在您获取数据库备份前，请保证那里是在CSM服务器的足够的空间。

1. 为了登陆到CSM服务器，请进入https://server_ip:1741到您的Web浏览器。
2. 打开共同性服务服务器管理窗口，并且导航对**Server>备份**。
3. 单击**应用**，确认备份警告，并且等待进程完成。

在CSM服务器的CLI

为了与CLI的备份数据在Windows和Solaris，输入此命令：

```
NMSROOT/bin/backup.pl BackupDirectory [LogFile] [Num_Generations]
```

- **BackupDirectory** -您希望是您的备份目录的目录。
- **日志文件**-日志文件名。
- **Num_Generations** -最大数量在备份目录将保留的备份生成。

注意：命令不能有在它的任何空间。例如：`C:\>"C:\PROGRA~1\CSCOpX\bin\perl" "C:\PROGRA~1\CSCOpX\bin\backup.pl" C:\Temp`

当CSM备份完成时，CLI回到prompt命令。当您在目录“C:\Temp”时查找有文件夹标志编号(很可能0)。在被标记的文件夹里面“0”有三个唯一文件夹。其中一个文件夹被标记“vms”并且包含CSM数据库信息。

恢复备份

为了恢复数据，请保证您有正确权限。打开prompt命令(cmd.exe)，并且遵从这些步骤：

1. 为了终止所有进程，请输入：

```
NMSROOT/bin/backup.pl BackupDirectory [LogFile] [Num_Generations]
```

2. 为了恢复数据库，请输入：

```
C:\Program Files\CSCOpX\bin>C:\PROGRA~1\CSCOpX\bin\perl
```

```
C:\PROGRA~1\CSCOpX\bin\restorebackup.pl -d
```

```
C:\Temp
```

```
*****
```

```
Restore started at : 2012/09/21 09:04:49
```

```
Please see 'C:\PROGRA~1\CSCOpX\log\restorebackup.log' for status.
```

```
USER ID is ..... : Administrator
```

```
OS of the backup archive is..... : Windows
```

```
Generation to be restored is ..... : 0
```

```
Backup taken from..... : C:\Temp
```

```
Common Services version in the backup data is... : 4.0
```

```
Common Services is installed in..... : C:\PROGRA~1\CSCOpX
```

```
The temp folder for this restore program..... : C:\PROGRA~1\CSCOpX\tempBackupData
```

```
Applications installed on this machine ..... : [Common Services][aus][vms]
```

```
Applications in the backup archive ..... : [Common Services][aus][vms]
```

```
Applications to be restored are..... : [Common Services] [aus][vms]
```

```
req_nms_space ..... : 2734563794
```

```
req_temp_space ..... : 4004774354
```

Available disk space in NMSROOT..... : 62161104 Kb
Required disk space in NMSROOT..... : 6581384 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~1\CSCOpX\tempBackupData]
preRestore of [Common Services] has started.
preRestore of [Common Services] has completed.

preRestore of [aus] has started.
preRestore of [aus] has completed.

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

doRestore of [Common Services] has started.

License check started.

WARNING: The license details in the server are different from the backup data.
After restoring, please check the license available in the server.

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.

Restoring Security Settings.
Restored Security Settings.

Restoring DCR data.
Restored DCR data.

Restoring Certificate key store.
Restored Certificate key store.

Restoring JAAS configuration.
Restored JAAS configuration.

JRM Job Migration started.
JRM job Migration done.
doRestore of [Common Services] has completed.

doRestore of [aus] has started.
doRestore of [aus] 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 [aus] has started.
postRestore of [aus] has completed.

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

Restored successfully.

3. 在此位置检查日志文件为了验证数据库恢复。输入：

```
C:\Program Files\CSCOpX\bin>C:\PROGRA~1\CSCOpX\bin\perl
```

```
C:\PROGRA~1\CSCOpX\bin\restorebackup.pl -d
```

```
C:\Temp
```

```
*****
```

```
Restore started at : 2012/09/21 09:04:49
```

```
Please see 'C:\PROGRA~1\CSCOpX\log\restorebackup.log' for status.
```

```
USER ID is ..... : Administrator
```

```
OS of the backup archive is..... : Windows
```

```
Generation to be restored is ..... : 0
```

```
Backup taken from..... : C:\Temp
```

```
Common Services version in the backup data is... : 4.0
```

```
Common Services is installed in..... : C:\PROGRA~1\CSCOpX
```

```
The temp folder for this restore program..... : C:\PROGRA~1\CSCOpX\tempBackupData
```

```
Applications installed on this machine ..... : [Common Services][aus][vms]
```

```
Applications in the backup archive ..... : [Common Services][aus][vms]
```

```
Applications to be restored are..... : [Common Services] [aus][vms]
```

```
req_nms_space ..... : 2734563794
```

```
req_temp_space ..... : 4004774354
```

```
Available disk space in NMSROOT..... : 62161104 Kb
```

```
Required disk space in NMSROOT..... : 6581384 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~1\CSCOpX\tempBackupData]
```

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

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

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

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

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

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

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

```
License check started.
```

```
WARNING: The license details in the server are different from the backup data.  
After restoring, please check the license available in the server.
```

```
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.

Restoring Security Settings.
Restored Security Settings.

Restoring DCR data.
Restored DCR data.

Restoring Certificate key store.
Restored Certificate key store.

Restoring JAAS configuration.
Restored JAAS configuration.

JRM Job Migration started.
JRM job Migration done.
doRestore of [Common Services] has completed.

doRestore of [aus] has started.
doRestore of [aus] 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 [aus] has started.
postRestore of [aus] has completed.

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

Restored successfully.

4. 为了重新启动系统，回车：

```
C:\Program Files\CSCOpX\bin>C:\PROGRA~1\CSCOpX\bin\perl
C:\PROGRA~1\CSCOpX\bin\restorebackup.pl -d
C:\Temp
*****
Restore started at : 2012/09/21 09:04:49
Please see 'C:\PROGRA~1\CSCOpX\log\restorebackup.log' for status.

USER ID is ..... : Administrator
OS of the backup archive is..... : Windows
Generation to be restored is ..... : 0
Backup taken from..... : C:\Temp
Common Services version in the backup data is... : 4.0

Common Services is installed in..... : C:\PROGRA~1\CSCOpX
The temp folder for this restore program..... : C:\PROGRA~1\CSCOpX\tempBackupData
Applications installed on this machine ..... : [Common Services][aus][vms]
Applications in the backup archive ..... : [Common Services][aus][vms]
Applications to be restored are..... : [Common Services] [aus][vms]
```

req_nms_space : 2734563794
req_temp_space : 4004774354

Available disk space in NMSROOT..... : 62161104 Kb
Required disk space in NMSROOT..... : 6581384 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~1\CSCOpX\tempBackupData]
preRestore of [Common Services] has started.
preRestore of [Common Services] has completed.

preRestore of [aus] has started.
preRestore of [aus] has completed.

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

doRestore of [Common Services] has started.

License check started.

WARNING: The license details in the server are different from the backup data.
After restoring, please check the license available in the server.

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.

Restoring Security Settings.
Restored Security Settings.

Restoring DCR data.
Restored DCR data.

Restoring Certificate key store.
Restored Certificate key store.

Restoring JAAS configuration.
Restored JAAS configuration.

JRM Job Migration started.
JRM job Migration done.
doRestore of [Common Services] has completed.

doRestore of [aus] has started.
doRestore of [aus] 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 [aus] has started.  
postRestore of [aus] has completed.  
  
postRestore of [vms] has started.  
postRestore of [vms] has completed.  
  
Restored successfully.
```

问题：备份洛克文件存在

当CSM备份被执行时，失效与错误类似于此：

```
Backup failed.ERROR(383): C:\PROGRA~2\CSCOpX\backup.LOCK file exists
```

解决方案

CSM创建一个新的锁定文件(backup.LOCK)在备份目录，在开始备份前。如果中断备份或发生故障，文件没获得整理。您必须删除从CSM服务器的当前backup.LOCK文件，再然后执行备份过程。

问题：备份工具或没使用的Backup.pl脚本

CSM服务器未备份与使用在服务器GUI的备份工具，或者与使用在服务器的Backup.pl脚本。使用外部应用备份的文件为了恢复CSM是否是可能的？

解决方案

CSM备份过程从数据库单个获取数据。简单文件备份不适当地获取此数据，并且文件不是可再用的恢复CSM。然而，如果完全关闭虚拟机，和请采取整个VM的快照，可以用于恢复CSM (只要所有目录、文件和驱动由快照捕获)。

问题：备份空间需求

当备份恢复执行时，空间需求遇到。多少空间为CSM备份恢复要求？

解决方案

为了恢复数据库备份，CSM服务器需要三倍CSM数据库备份的大小的可用空间。在获取后，CSM数据库备份通常压缩。当转接对CSM服务器，必须未压缩它。在它未压缩后，必须恢复。在安装在CSM服务器上，CSM恢复进程复制数据库到一个临时位置。

相关信息

- [Cisco Security Manager 4.3安装和升级指南](#)
- [技术支持和文档 - Cisco Systems](#)