

Cisco Unified Communication Manager (CUCM) 备份配置与故障排除

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简介

本文档介绍将备份设备添加至 Cisco Unified Communications Manager (CUCM) 的过程。

先决条件

要求

Cisco 建议您了解以下主题：

- Cisco Unified Communications Manager (CUCM)
- 安全文件传输协议 (SFTP) 服务器管理

使用的组件

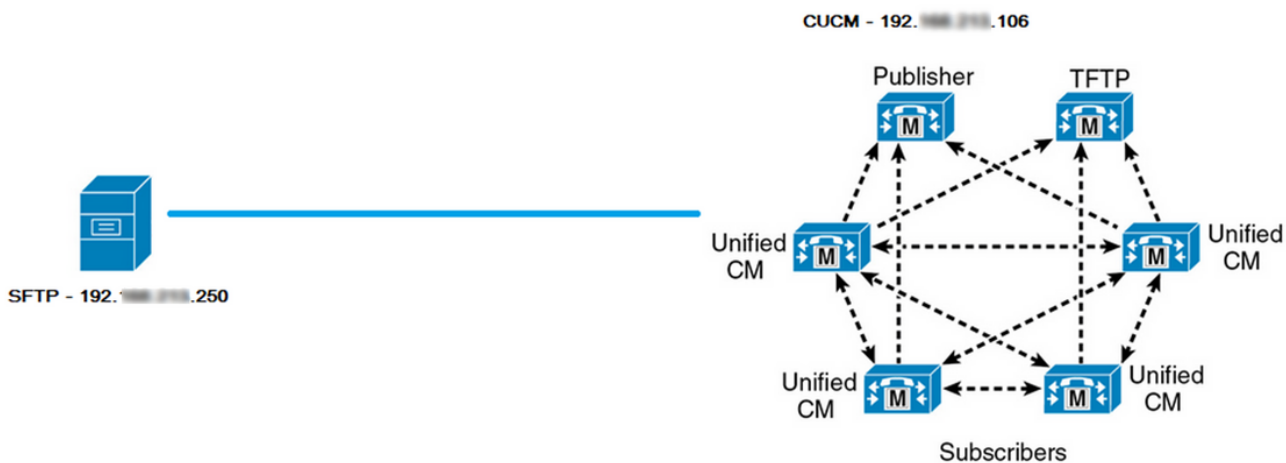
- Cisco Unified Communications Manager 11.5
- Linux SFTP 服务器

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

背景信息

在您所处的环境中使用任何软件进行备份的目的是能够在发生灾难的情况下进行恢复。备份非常重要，可防止在软件损坏、硬件发生故障或发生自然灾害时丢失数据。

CUCM 和 SFTP 拓扑如图所示：

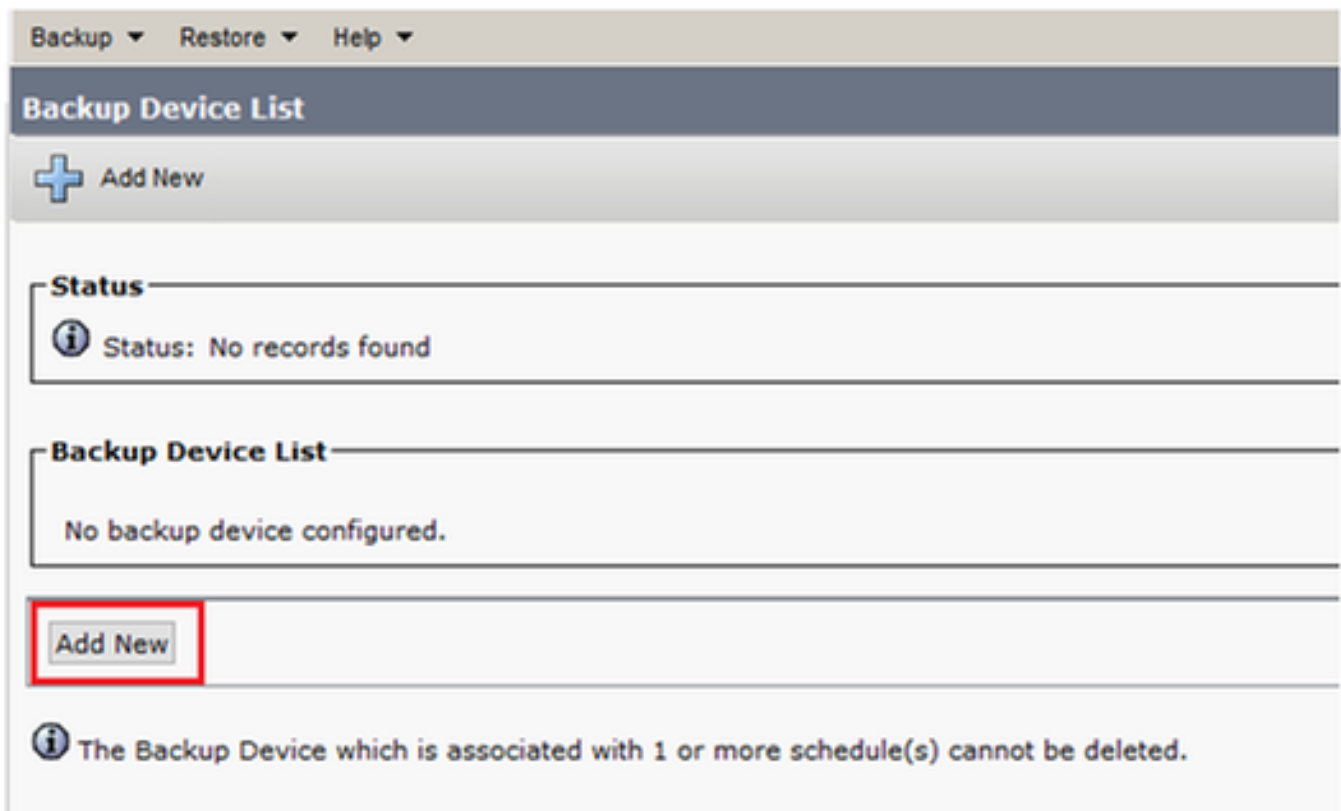
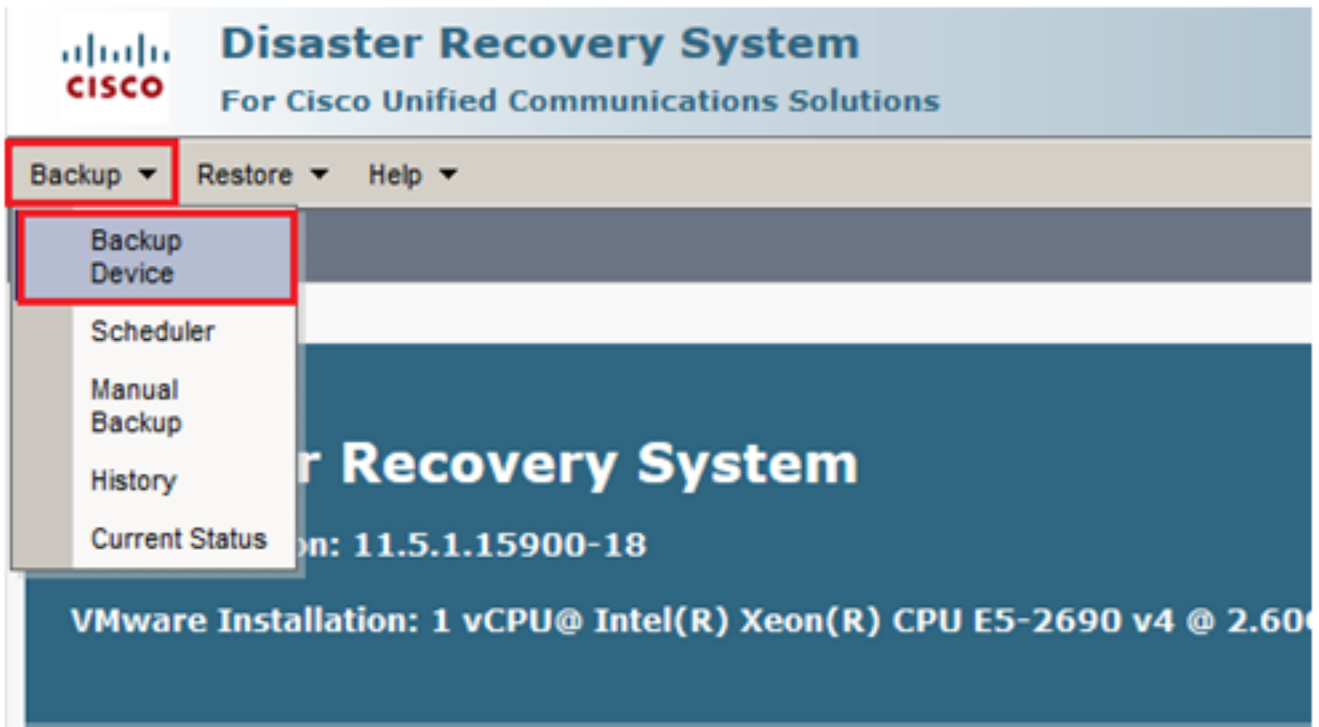


配置

通过 GUI 程序添加备份设备

第 1 步：导航至 CUCM > Disaster Recovery System (灾难恢复系统) > Backup (备份) > Backup Device (备份设备)，然后点击 **Add New (新增)**，如图所示：





第 2 步：添加备份设备名称、IP 地址、路径名称、用户名和密码，如图所示：

- IP 地址必须是存储备份的目标 SFTP 服务器。
- 路径名称是存储备份的 SFTP 服务器内的目录。
- SFTP 服务器中必须有用户名和密码，以进行身份验证。
- 要存储在网络目录中的备份数量必须设置为需要在 SFTP 目录中保留的备份数量。

完成后，单击 Save（保存）。

Backup Device



Save



Back

Status



Status: Ready

Backup device name

Backup device name*

TAC-Backup

Select Destination*

Network Directory

Host name/IP address

192 . . . 250

Path name

/UCM/Backups/

User name

cisco

Password

Number of backups to store on Network Directory


1 ▾

Save


Back

确认更新成功，如图所示：

Backup Device

Save  Back

Status

 Update successful


Backup device name

Backup device name*

Select Destination*

Network Directory

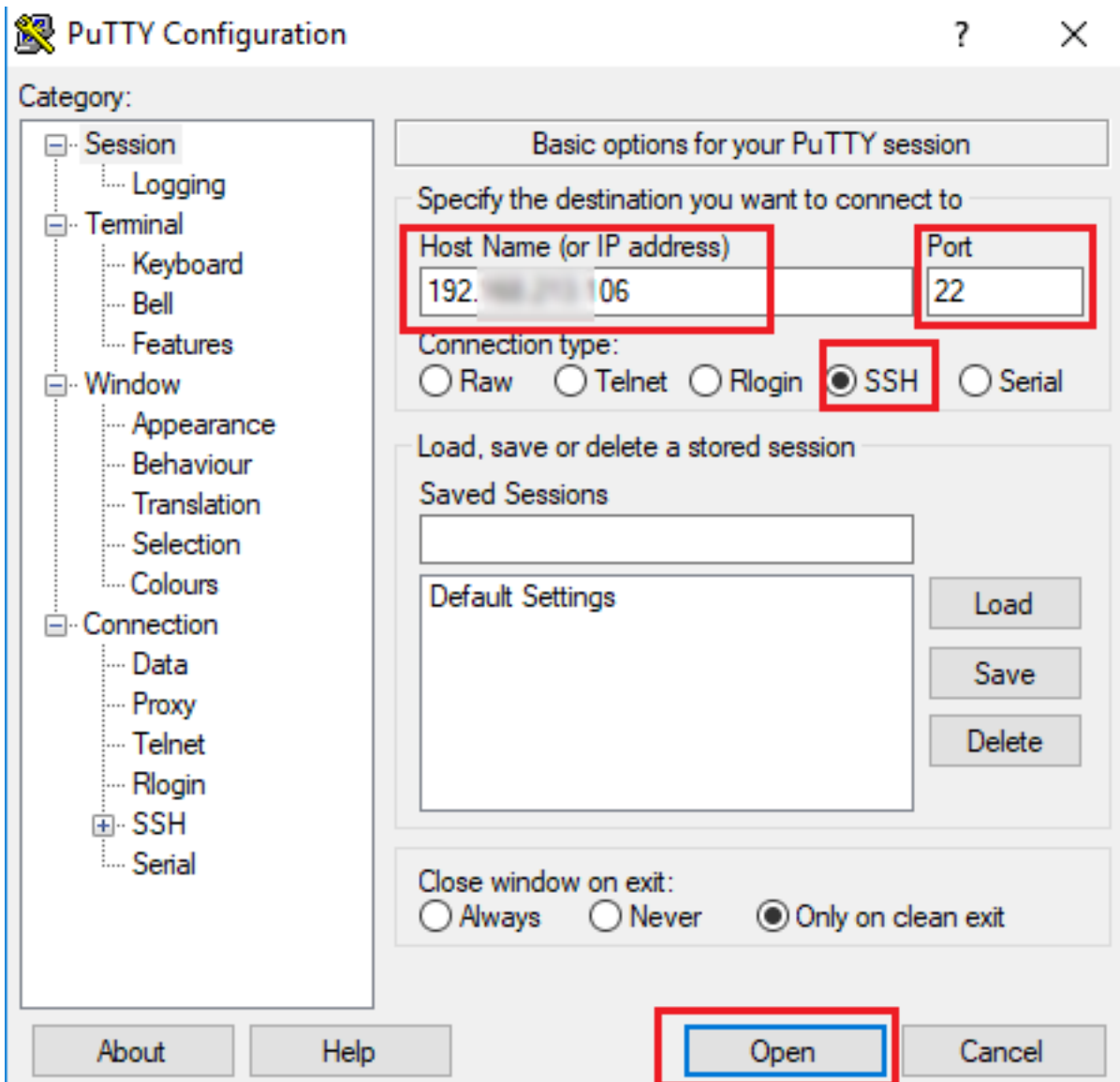
Host name/IP address	<input type="text" value="192.168.1.250"/>
Path name	<input type="text" value="/UCM/Backups/"/>
User name	<input type="text" value="cisco"/>
Password	<input type="password" value="*****"/>

Number of backups to store on Network Directory 

Save

通过 CLI 程序添加备份设备

第 1 步：将安全外壳 (SSH) 纳入 CUCM 发布方的 IP 地址中，并使用操作系统 (OS) 用户名和密码进行身份验证，如图所示：



192.168.1.106 - PuTTY

```
login as: admin
admin@192.168.1.106's password:
Command Line Interface is starting up, please wait ...

Welcome to the Platform Command Line Interface

VMware Installation:
 1 vCPU: Intel(R) Xeon(R) CPU E5-2690 v4 @ 2.60GHz
Disk 1: 80GB, Partitions aligned
6144 Mbytes RAM
```

第 2 步：使用以下语法添加备份设备：utils disaster_recovery device add network<backup device name> <path> <ip-address of remote server> <username> [备份数量]，如图所示：

192.168.1.106 - PuTTY

```
admin:utils disaster_recovery device add network TAC-Backup /UCM/Backups/ 192.168.1.250 cisco 1
Please enter password to connect to network server 192.168.1.250:*****
drfCliMsg: Backup Device has been saved successfully.
admin:
```

在执行此添加备份设备程序时，将在 CUCM 中完成以下步骤：

1. 联系 SFTP 服务器并进行身份验证
2. 将测试文件传输到目录
3. 断开与 SFTP 服务器的连接
4. 联系 SFTP 服务器并进行身份验证
5. 删除目录中的测试文件
6. 断开与 SFTP 服务器的连接

注意：如果这些步骤中的任何一个失败，CUCM 将无法添加备份设备。

添加备份设备的日志分析

```
+++++  
发送 UpdateDestination 请求以添加新备份目标  
+++++
```

```
2018-12-24 11:39:22,494 DEBUG [NetMessageDispatch] - drfMessageValidator.validateMessage():  
Starting introspection for Message ID = 3200 Message Body =  
===== BEGIN msgSubUpdateDestination_REQ =====  
devicepath      : /UCM/Backups/  
devicetype      : NETWORK  
hostname       : 192.X.X.250  
m_iBackupSetCount : 1  
password       : 8f5fcb108a798014abff9ab4fc006f2a83027d6c858f0ac9b2720a32ba1b8d3c  
storagelocationname : TAC-Backup  
username       : cisco  
version        : 1.0.0  
schedules      : []  
===== END msgSubUpdateDestination_REQ =====
```

```
+++++  
CUCM 尝试连接到 SFTP 服务器  
+++++
```

```
2018-12-24 11:39:23,168 DEBUG [NetMessageDispatch] - drfUtils:establishSftpConnection: Trying to  
connect to the SFTP server.
```

```
2018-12-24 11:39:23,171 DEBUG [NetMessageDispatch] - drfUtils:establishSftpConnection:  
Connecting SFTP server...
```

```
+++++  
身份验证已成功完成  
+++++
```

```
2018-12-24 11:39:23,373 DEBUG [NetMessageDispatch] - drfUtils:establishSftpConnection:  
Authentication Completed Successfully, connected to remote server. Now opening a SFTP channel.
```

```
2018-12-24 11:39:23,580 DEBUG [NetMessageDispatch] - drfUtils:sftpPutFile: SSH Authentication  
success for user cisco on 192.X.X.250
```

```
+++++  
CUCM 传输文件的路径：从 /common/drf/d3-sb-11pub_dUmml_Drf 到下列服务器：192.X.X.250  
/UCM/Backups/d3-sb-11pub_dUmml_Drf  
这样做是为了确认 CUCM 是否具有读/写权限。  
+++++
```

2018-12-24 11:39:23,581 DEBUG [NetMessageDispatch] - drfUtils:sftpPutFile: Transferring files from: /common/drf/d3-sb-11pub_dUmmI_Drf to the server: 192.X.X.250 /UCM/Backups/d3-sb-11pub_dUmmI_Drf

2018-12-24 11:39:23,581 DEBUG [NetMessageDispatch] - drfSftpProgressMonitor:: STARTING: 0 /common/drf/d3-sb-11pub_dUmmI_Drf -> /UCM/Backups/d3-sb-11pub_dUmmI_Drf total: 0

++++
文件传输已完成
++++

2018-12-24 11:39:23,585 DEBUG [NetMessageDispatch] - drfSftpProgressMonitor:: ...File Transfer Completed

++++
CUCM 将关闭 ChannelSftp...
++++

2018-12-24 11:39:23,586 DEBUG [NetMessageDispatch] - drfUtils:closeSFTPConnections: Closing ChannelSftp...
2018-12-24 11:39:23,586 DEBUG [NetMessageDispatch] - drfUtils:closeSFTPConnections: Disconnecting Channel...
2018-12-24 11:39:23,586 DEBUG [NetMessageDispatch] - drfUtils:closeSFTPConnections: Closing Session...

++++
CUCM 尝试连接到 SFTP 服务器
++++

2018-12-24 11:39:23,586 DEBUG [NetMessageDispatch] - drfUtils:establishSftpConnection: Trying to connect to the SFTP server.

2018-12-24 11:39:23,587 DEBUG [NetMessageDispatch] - drfUtils:establishSftpConnection: Connecting SFTP server...

++++
身份验证已成功完成
++++

2018-12-24 11:39:23,733 DEBUG [NetMessageDispatch] - drfUtils:establishSftpConnection: Authentication Completed Successfully, connected to remote server. Now opening a SFTP channel.

++++
CUCM 从下列服务器中删除文件 /UCM/Backups/d3-sb-11pub_dUmmI_Drf : 192.X.X.250
这样做是为了确认 CUCM 是否具有读/写权限。
++++

2018-12-24 11:39:24,277 DEBUG [NetMessageDispatch] - drfUtils:sftpDeleteFile: Deleting files /UCM/Backups/d3-sb-11pub_dUmmI_Drf from the server: 192.X.X.250

++++
已成功删除
++++

2018-12-24 11:39:24,277 INFO [NetMessageDispatch] - drfutils.sftpDeleteFiles: Successfully deleted /UCM/Backups/d3-sb-11pub_dUmmI_Drf on the Server 192.X.X.250

++++

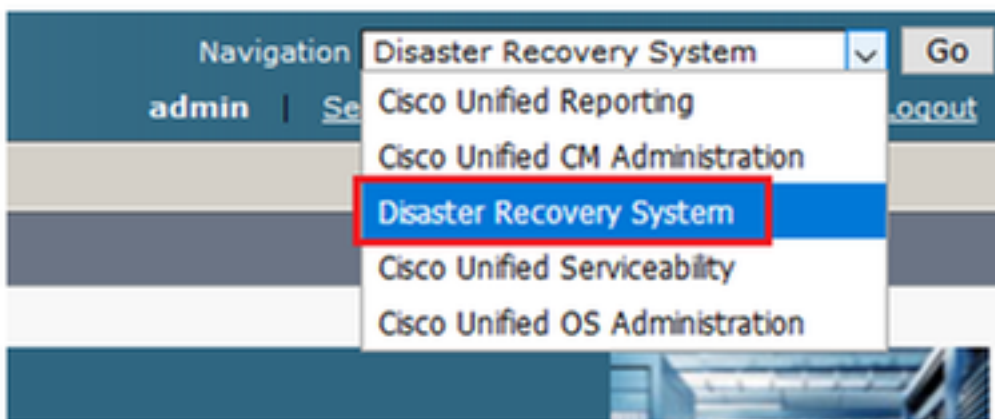
CUCM 将关闭 ChannelSftp...

+++++

```
2018-12-24 11:39:24,278 DEBUG [NetMessageDispatch] - drfUtils:closeSFTPConnections: Closing ChannelSftp...
2018-12-24 11:39:24,278 DEBUG [NetMessageDispatch] - drfUtils:closeSFTPConnections: Disconnecting Channel...
2018-12-24 11:39:24,278 DEBUG [NetMessageDispatch] - drfUtils:closeSFTPConnections: Closing Session...
2018-12-24 11:39:24,278 DEBUG [NetMessageDispatch] - drfUtils:isSftpLocationAccessible: Closing SFTP Client...
```

通过 GUI 程序启动手动备份

第 1 步：导航至 CUCM > Disaster Recovery System (灾难恢复系统) > Backup (备份) > Manual Backup (手动备份)，如图所示：



第 2 步：选择备份设备、要备份的功能，然后点击“Start”（开始）。在本例中，仅备份 UCM 功能，如图所示：

Backup ▾ Restore ▾ Help ▾

Manual Backup

Start Backup
 Estimate Size
 Select All
 Clear All

Status
 Status: Ready

Select Backup Device
 Device Name*: TAC-Backup ▾

Select Features *

UCM
 CDR_CAR
 PLM

The following components are registered with Disaster Recovery System:

Feature	Server	Component
UCM	D3-SB-11PUB	CDPAGT
UCM	D3-SB-11PUB	SYSLOGAGT
UCM	D3-SB-11PUB	PLATFORM
UCM	D3-SB-11PUB	CLM
UCM	D3-SB-11PUB	CCMDB
UCM	D3-SB-11PUB	TCT
UCM	D3-SB-11PUB	CCMPREFS
UCM	D3-SB-11PUB	TFTP
UCM	D3-SB-11PUB	MOH
UCM	D3-SB-11PUB	ANN
UCM	D3-SB-11PUB	BAT
UCM	D3-SB-11PUB	CEF
UCM	D3-SB-11PUB	REPORTER
UCM	D3-SB-11PUB	DNALIASLOOKUP
UCM	D3-SB-11PUB	DNALIASSYNC
CDR_CAR	D3-SB-11PUB	CAR
PLM	D3-SB-11PUB	ELM-AGENT
PLM	D3-SB-11PUB	ELM-SERVER

- 在备份过程中，您会看到状态指示，如图所示：

Backup ▾ Restore ▾ Help ▾

Backup Status

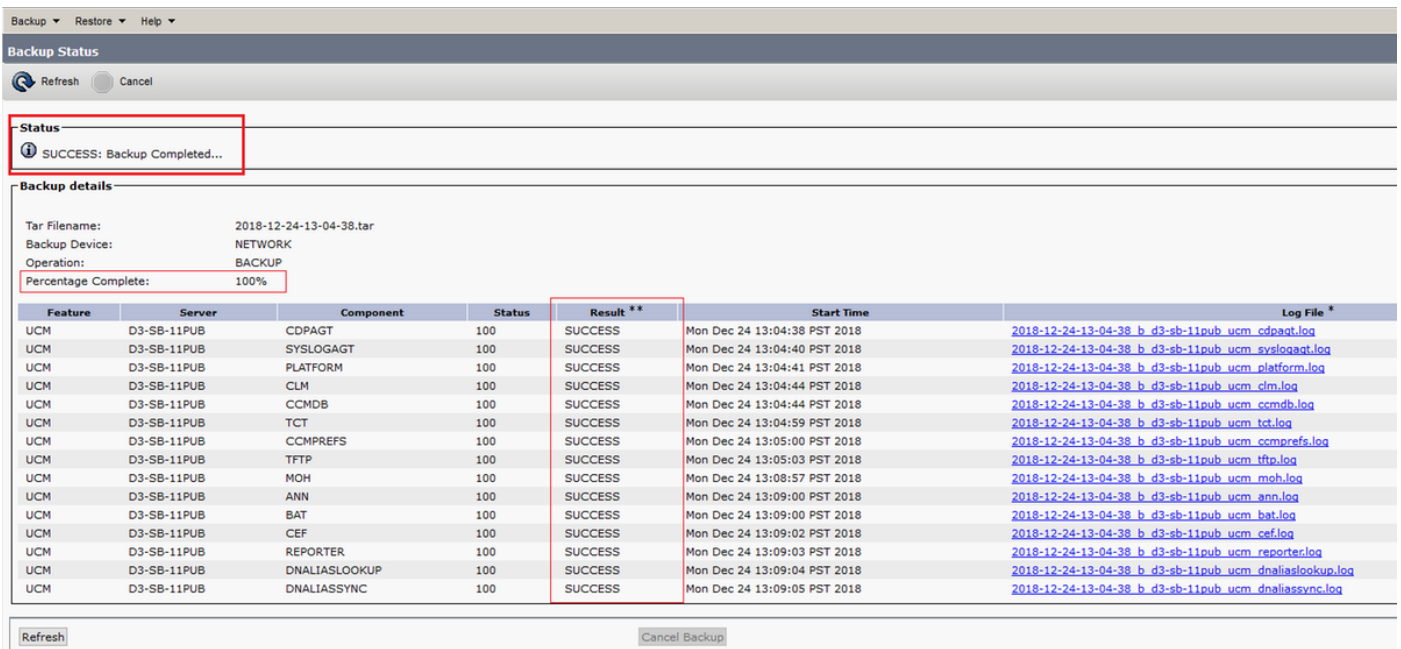
Status
 Backup operation in progress for server [D3-SB-11PUB], please wait...

Backup details

Tar Filename: 2018-12-24-13-04-38.tar
 Backup Device: NETWORK
 Operation: BACKUP
 Percentage Complete: 26%

Feature	Server	Component	Status	Result **	Start Time	Log File *
UCM	D3-SB-11PUB	CDPAGT	100	SUCCESS	Mon Dec 24 13:04:38 PST 2018	2018-12-24-13-04-38_b_d3-sb-11pub_ucm_cdpagt.log
UCM	D3-SB-11PUB	SYSLOGAGT	100	SUCCESS	Mon Dec 24 13:04:40 PST 2018	2018-12-24-13-04-38_b_d3-sb-11pub_ucm_syslogagt.log
UCM	D3-SB-11PUB	PLATFORM	100	SUCCESS	Mon Dec 24 13:04:41 PST 2018	2018-12-24-13-04-38_b_d3-sb-11pub_ucm_platform.log
UCM	D3-SB-11PUB	CLM	100	SUCCESS	Mon Dec 24 13:04:44 PST 2018	2018-12-24-13-04-38_b_d3-sb-11pub_ucm_clm.log
UCM	D3-SB-11PUB	CCMDB	0	Active	Mon Dec 24 13:04:44 PST 2018	
UCM	D3-SB-11PUB	TCT	0	---	---	
UCM	D3-SB-11PUB	CCMPREFS	0	---	---	
UCM	D3-SB-11PUB	TFTP	0	---	---	
UCM	D3-SB-11PUB	MOH	0	---	---	
UCM	D3-SB-11PUB	ANN	0	---	---	
UCM	D3-SB-11PUB	BAT	0	---	---	
UCM	D3-SB-11PUB	CEF	0	---	---	
UCM	D3-SB-11PUB	REPORTER	0	---	---	
UCM	D3-SB-11PUB	DNALIASLOOKUP	0	---	---	
UCM	D3-SB-11PUB	DNALIASSYNC	0	---	---	

- 备份完成后，您会看到一条成功消息，指示已在 CUCM 中完成备份，如图所示：



- 备份完成后，您将在 SFTP 目录中看到 .TAR 文件，如图所示。如果需要恢复，则稍后可使用这些文件：

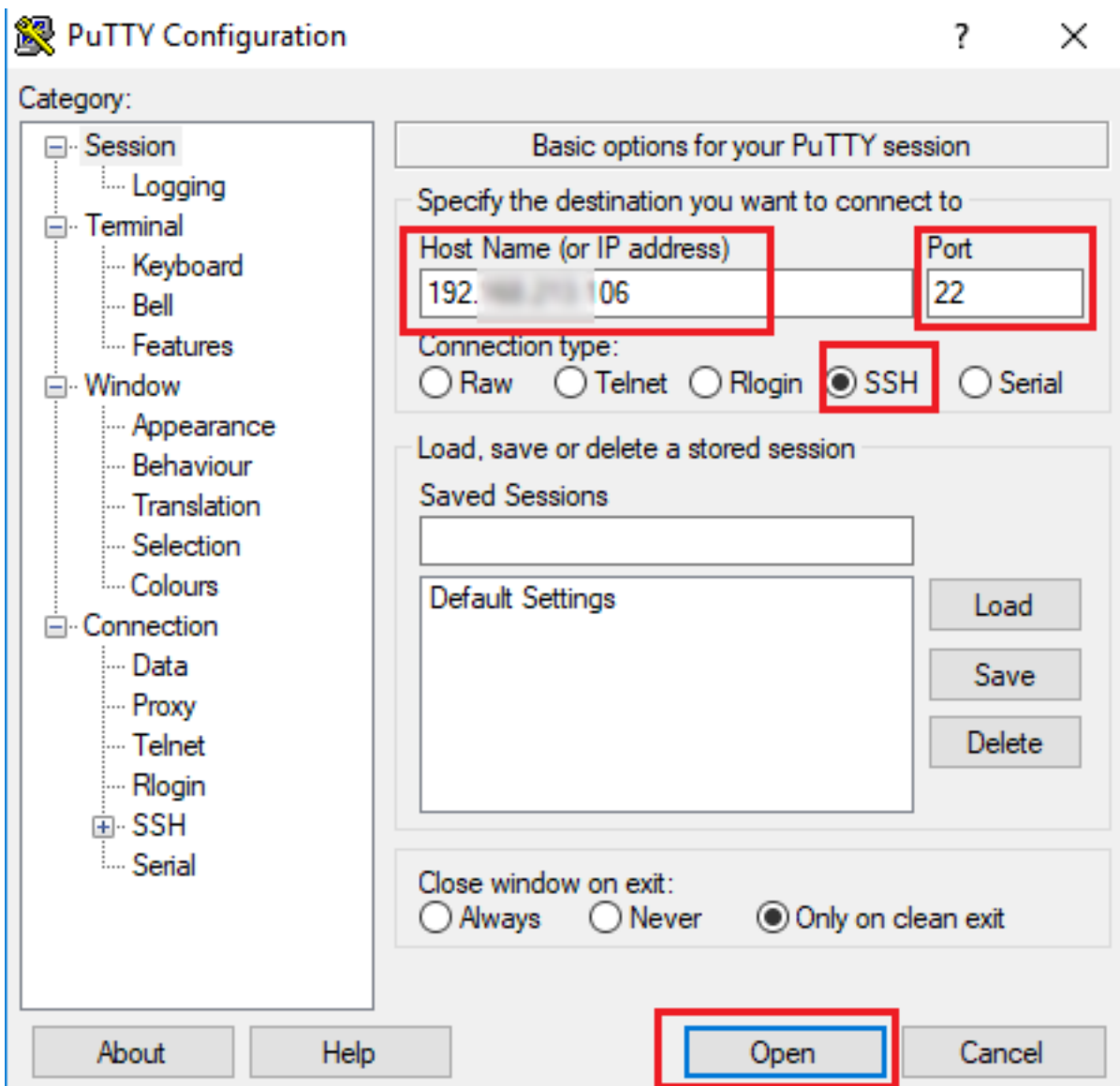
```

root@CM-SFTP:/home/cisco/UCM/Backups# ll
total 2232628
drwxr-xr-x  2 cisco cisco    20480 Dec 24 13:31 ./
drwxr-xr-x  71 cisco cisco   12288 Dec 21 13:33 ../
-rw-rw-r--  1 cisco cisco    23792 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_drfComponent.xml
-rw-rw-r--  1 cisco cisco   10272 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_UCM_ANN.tar
-rw-rw-r--  1 cisco cisco  3123405 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_UCM_BAT.tar
-rw-rw-r--  1 cisco cisco 37990432 Dec 24 13:27 2018-12-24-13-04-38_D3-SB-11PUB_UCM_CCMDB.tar
-rw-rw-r--  1 cisco cisco 13015072 Dec 24 13:27 2018-12-24-13-04-38_D3-SB-11PUB_UCM_CCMPPREFS.tar
-rw-rw-r--  1 cisco cisco   20538 Dec 24 13:27 2018-12-24-13-04-38_D3-SB-11PUB_UCM_CDPAGT.tar
-rw-rw-r--  1 cisco cisco   10360 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_UCM_CEF.tar
-rw-rw-r--  1 cisco cisco   10335 Dec 24 13:27 2018-12-24-13-04-38_D3-SB-11PUB_UCM_CLM.tar
-rw-rw-r--  1 cisco cisco   20512 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_UCM_DNALIASLOOKUP.tar
-rw-rw-r--  1 cisco cisco   10272 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_UCM_DNALIASSYNC.tar
-rw-rw-r--  1 cisco cisco 27904032 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_UCM_MOH.tar
-rw-rw-r--  1 cisco cisco  1597472 Dec 24 13:27 2018-12-24-13-04-38_D3-SB-11PUB_UCM_PLATFORM.tar
-rw-rw-r--  1 cisco cisco   20577 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_UCM_REPORTER.tar
-rw-rw-r--  1 cisco cisco   10298 Dec 24 13:27 2018-12-24-13-04-38_D3-SB-11PUB_UCM_SYSLOGAGT.tar
-rw-rw-r--  1 cisco cisco   10360 Dec 24 13:27 2018-12-24-13-04-38_D3-SB-11PUB_UCM_TCT.tar
-rw-rw-r--  1 cisco cisco 2202353616 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_UCM_TFTP.tar
root@CM-SFTP:/home/cisco/UCM/Backups#

```

通过 CLI 程序启动手动备份

第 1 步：将安全外壳 (SSH) 纳入 CUCM 发布方的 IP 地址中，并使用操作系统用户名和密码进行身份验证，如图所示：



步骤2.使用命令语法：**utils disaster_recovery backup network <featurelist> <backup device name>**启动手动备份，如图所示：

```
192.168.1.106 - PuTTY
admin:utils disaster_recovery backup network UCM TAC-Backup
drfCliMsg: Backup initiated successfully. Please run 'utils disaster_recovery status backup' command to see the status
```

- 在备份过程中，您会看到命令语法的状态指示：**utils disaster_recovery status backup**，如图所示：

```
192.168.1.106 - PuTTY
admin:utils disaster_recovery status backup
Status: Backup operation in progress for server [D3-SB-11PUB], please wait...
Tar Filename: 2018-12-24-13-21-17.tar
Storage Location: NETWORK
Operation: backup
Percentage Complete: 46
UCM D3-SB-11PUB CDPAGT SUCCESS Mon Dec 24 13:21:17 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_cdpagt.log
UCM D3-SB-11PUB SYSLOGAGT SUCCESS Mon Dec 24 13:21:18 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_syslogagt.log
UCM D3-SB-11PUB PLATFORM SUCCESS Mon Dec 24 13:21:19 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_platform.log
UCM D3-SB-11PUB CLM SUCCESS Mon Dec 24 13:21:22 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_clm.log
UCM D3-SB-11PUB CCMDB SUCCESS Mon Dec 24 13:21:23 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_ccmdb.log
UCM D3-SB-11PUB TCT SUCCESS Mon Dec 24 13:21:36 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_tct.log
UCM D3-SB-11PUB CCMPREFS SUCCESS Mon Dec 24 13:21:36 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_ccmprefs.log
UCM D3-SB-11PUB TFTP Active Mon Dec 24 13:21:39 PST 2018
UCM D3-SB-11PUB MOH --- ---
UCM D3-SB-11PUB ANN --- ---
UCM D3-SB-11PUB BAT --- ---
UCM D3-SB-11PUB CEF --- ---
UCM D3-SB-11PUB REPORTER --- ---
UCM D3-SB-11PUB DNALIASLOOKUP --- ---
UCM D3-SB-11PUB DNALIASYNC --- ---
```

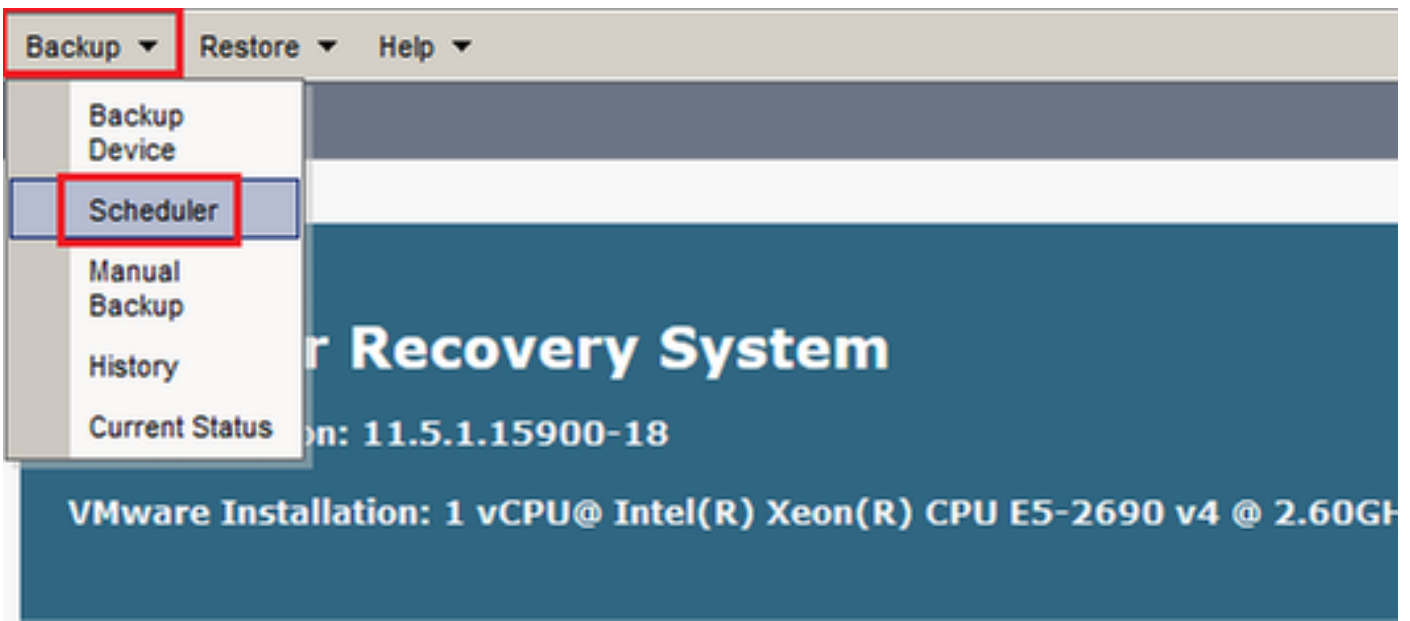
- 备份完成后，您会看到一条包含以下命令语法的成功消息：**utils disaster_recovery status**

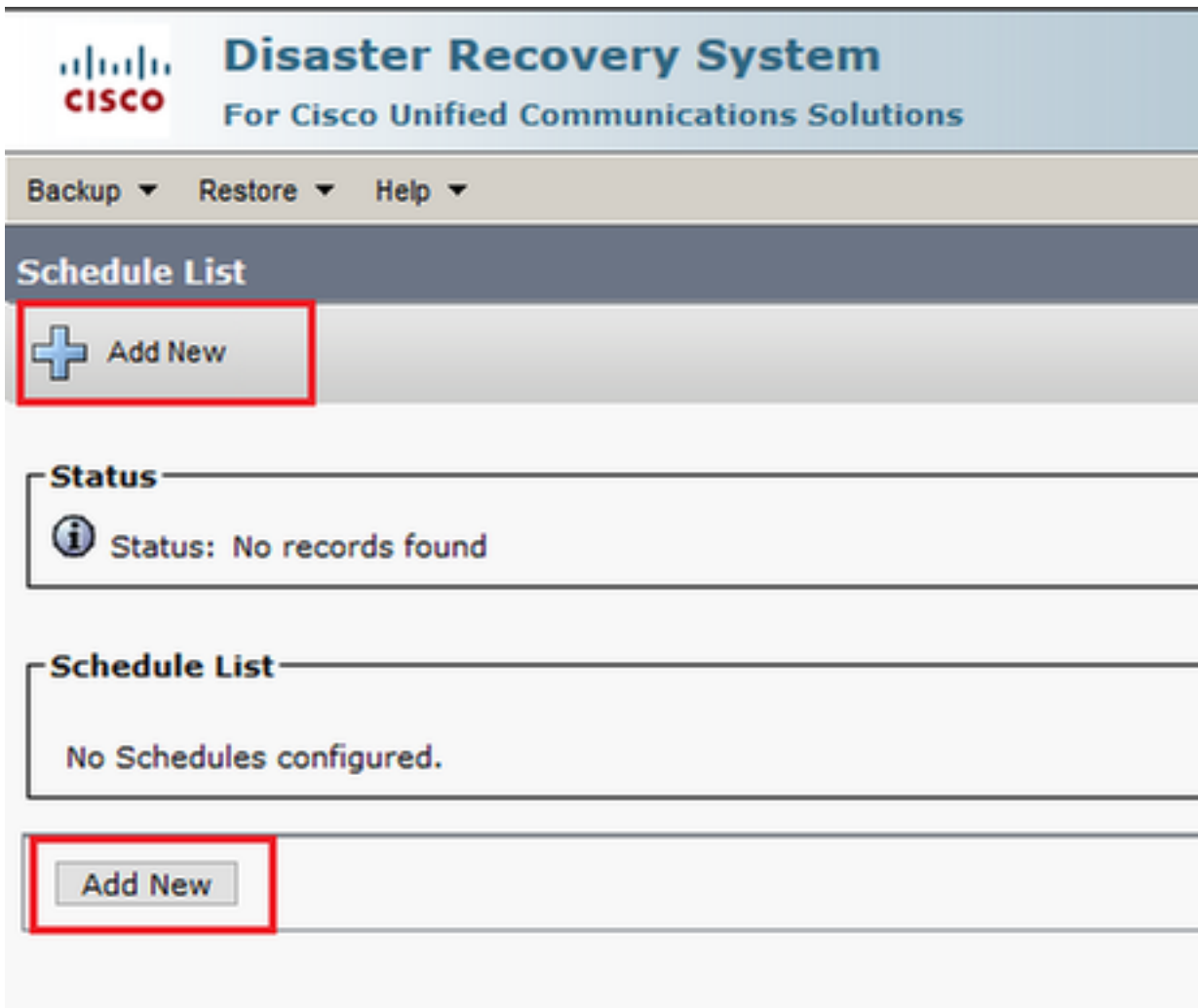
backup , 如图所示 :

```
192.168.1.106 - PuTTY
admin:utils disaster_recovery status backup
Status: SUCCESS :Backup Completed...
Tar Filename: 2018-12-24-13-21-17.tar
Storage Location: NETWORK
Operation: backup
Percentage Complete: 100
UCM D3-SB-11PUB CDPAGT SUCCESS Mon Dec 24 13:21:17 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_cdpagt.log
UCM D3-SB-11PUB SYSLOGAGT SUCCESS Mon Dec 24 13:21:18 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_syslogagt.log
UCM D3-SB-11PUB PLATFORM SUCCESS Mon Dec 24 13:21:19 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_platform.log
UCM D3-SB-11PUB CLM SUCCESS Mon Dec 24 13:21:22 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_clm.log
UCM D3-SB-11PUB CCMDB SUCCESS Mon Dec 24 13:21:23 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_ccmdb.log
UCM D3-SB-11PUB TGT SUCCESS Mon Dec 24 13:21:36 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_tgt.log
UCM D3-SB-11PUB CCMPPREFS SUCCESS Mon Dec 24 13:21:36 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_ccmprefs.log
UCM D3-SB-11PUB TFTP SUCCESS Mon Dec 24 13:21:39 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_tftp.log
UCM D3-SB-11PUB MOH SUCCESS Mon Dec 24 13:25:25 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_moh.log
UCM D3-SB-11PUB ANN SUCCESS Mon Dec 24 13:25:27 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_ann.log
UCM D3-SB-11PUB BAT SUCCESS Mon Dec 24 13:25:28 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_bat.log
UCM D3-SB-11PUB CEF SUCCESS Mon Dec 24 13:25:29 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_cef.log
UCM D3-SB-11PUB REPORTER SUCCESS Mon Dec 24 13:25:30 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_reporter.log
UCM D3-SB-11PUB DNALIASLOOKUP SUCCESS Mon Dec 24 13:25:31 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_dnaliaslookup.log
UCM D3-SB-11PUB DNALIASSYNC SUCCESS Mon Dec 24 13:25:32 PST 2018 activelog/platform/drf/log/2018-12-24-13-21-17_b_d3-sb-11pub_ucm_dnaliasync.log
admin:
```

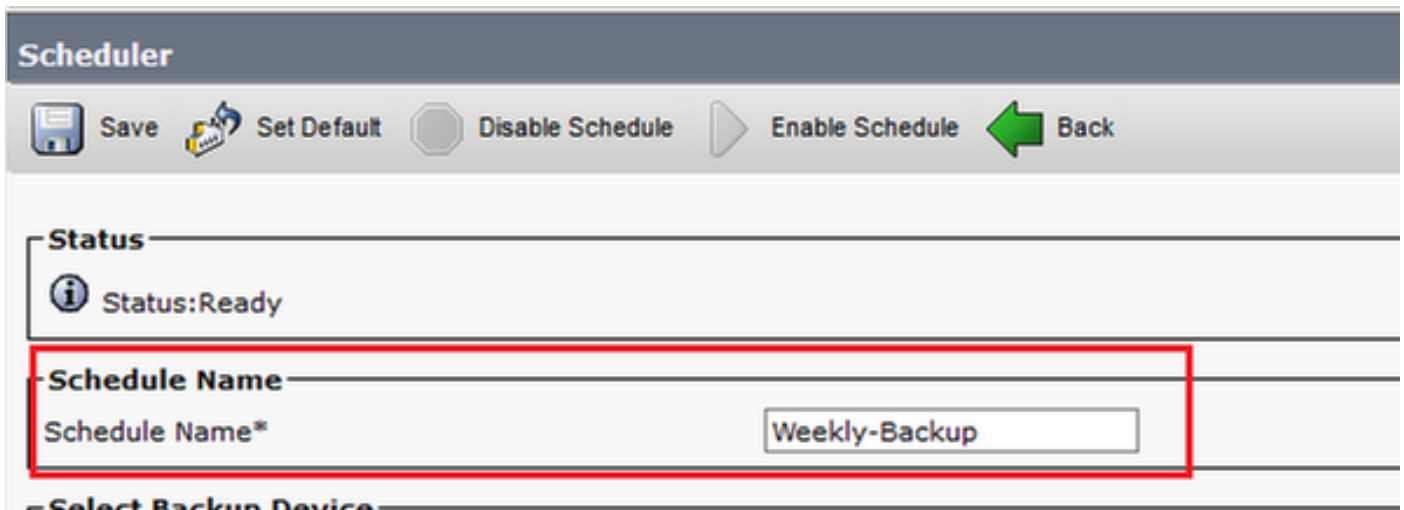
通过 GUI 程序启用计划备份

第 1 步 : 导航至 CUCM > Disaster Recovery System (灾难恢复系统) > Backup (备份) > Scheduler (计划程序) >> Add New (新增) , 如图所示 :





第 2 步：为自动备份任务添加名称，如图所示：



步骤 3。选择备份设备

Scheduler

Save Set Default Disable Schedule Enable Schedule Back

Status
 Status: Ready

Schedule Name
 Schedule Name* Weekly-Backup

Select Backup Device
 Device Name* TAC-Backup

第 4 步：选择要备份的功能

Select Backup Device
 Device Name* TAC-Backup

Select Features *

UCM CDR_CAR PLM

The following components are registered with Disaster Recovery System:

第 5 步：选择开始日期，然后选择频率：

Start Backup at *

Date 2018 Dec 30 Time 00 Hour 00 Minute

Frequency *

Once
 Daily
 Weekly

Monday Tuesday Wednesday Thursday
 Friday Saturday Sunday

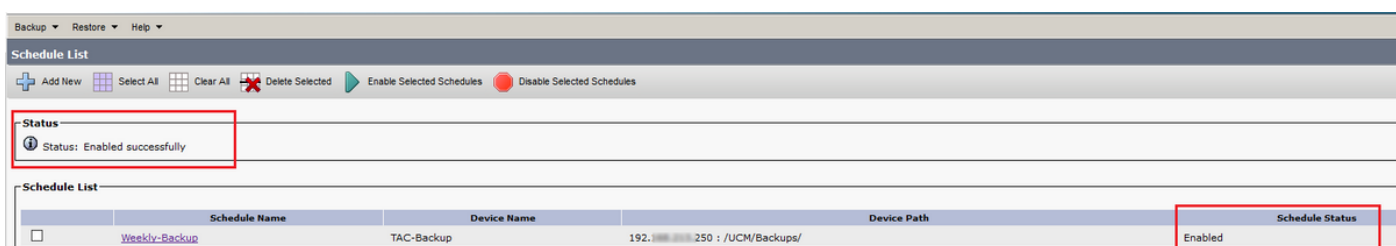
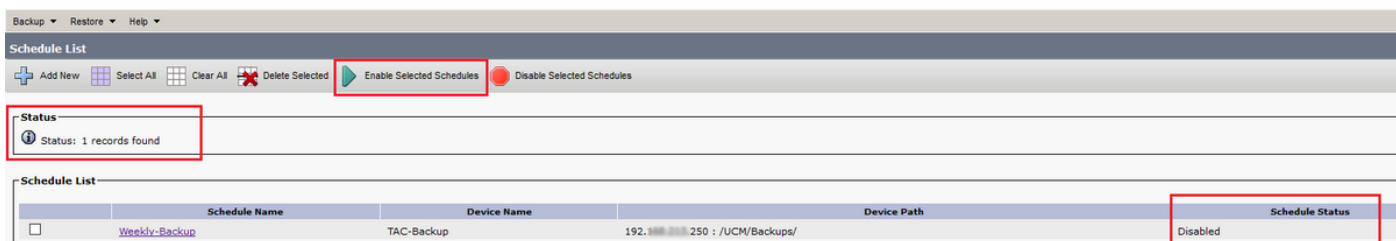
Monthly

第 6 步：保存

Monthly

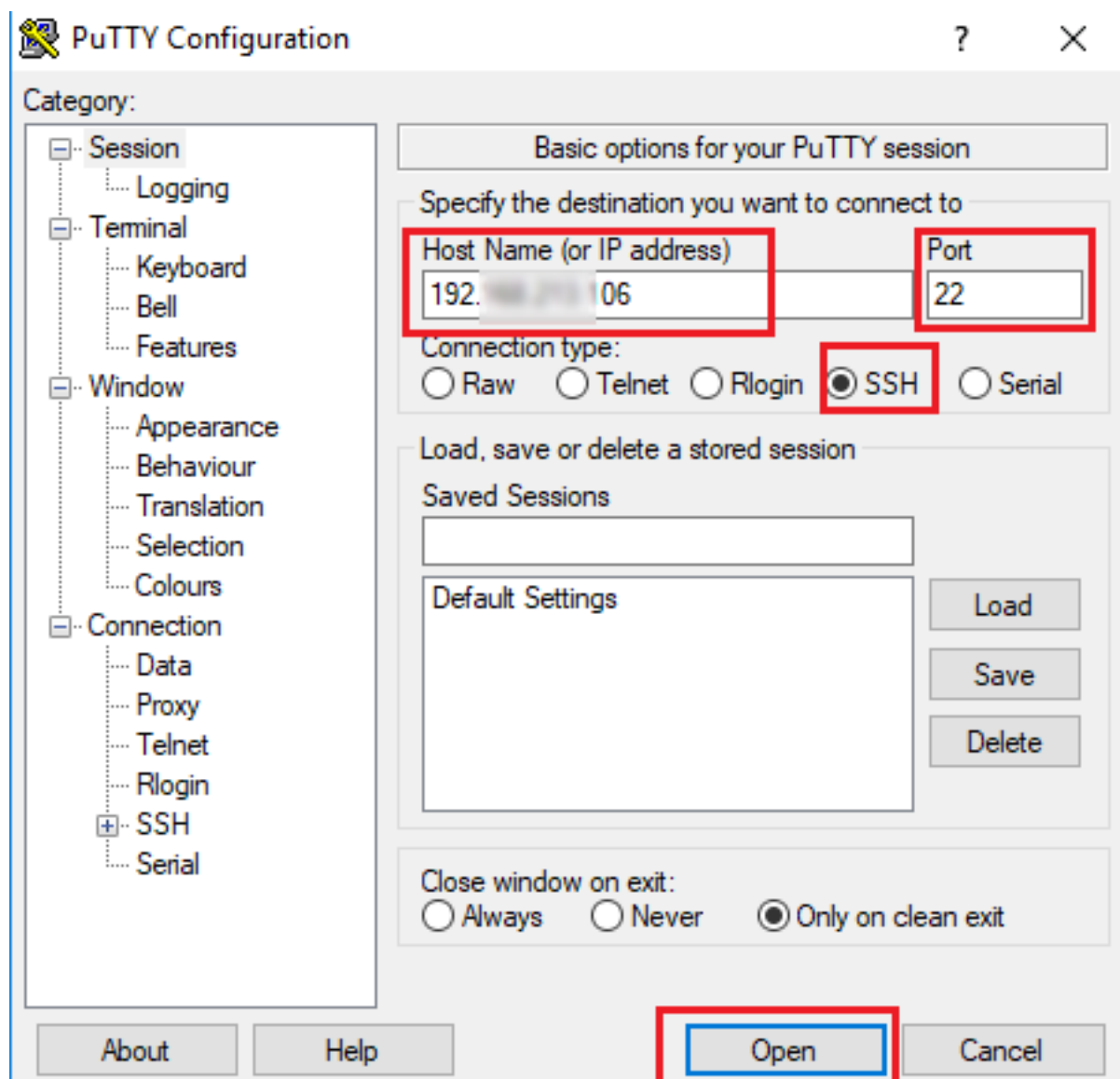
Save Set Defa

第 7 步：启用计划备份：



通过 CLI 程序启用计划备份

第 1 步：将安全外壳 (SSH) 纳入 CUCM 发布方的 IP 地址中，并使用操作系统用户名和密码进行身份验证，如图所示：



第 2 步：使用以下命令语法添加计划备份：`utils disaster_recovery schedule add <schedulename> <devicename> <featurelist> <datetime> <frequency>`，如图所示：


```
192. .106 - PuTTY
login as: admin
admin@192. .106's password:
Command Line Interface is starting up, please wait ...

Welcome to the Platform Command Line Interface

VMware Installation:
  1 vCPU: Intel(R) Xeon(R) CPU E5-2690 v4 @ 2.60GHz
  Disk 1: 80GB, Partitions aligned
  6144 Mbytes RAM

admin:utils disaster_recovery schedule add Weekly-Backup TAC-Backup UCM 2018/12/30-00:00 weekly
```

第 3 步：使用以下命令语法启用计划备份：utils disaster_recovery schedule enable<schedulename>，如图所示：


```
192. .106 - PuTTY

admin:utils disaster_recovery schedule enable Weekly-Backup
Schedule Enabled Successfully
admin:
```

CUCM 删除旧备份示例

备份数量设置为 1 的备份设备配置，如图所示：

Backup Device

Save  Back

Status
i Status:Ready

Backup device name
 Backup device name* TAC-Backup

Select Destination*

Network Directory	Host name/IP address	192. .250
	Path name	/UCM/Backups/
	User name	cisco
	Password
Number of backups to store on Network Directory		1 v

仅有 1 个备份可用（16 个文件）的备份目录，如图所示：

```

root@CM-SFTP:/home/cisco/UCM/Backups# ll
total 2232628
drwxr-xr-x 2 cisco cisco      20480 Dec 24 13:31 ./
drwxr-xr-x 71 cisco cisco     12288 Dec 21 13:33 ../
-rw-rw-r-- 1 cisco cisco     23792 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_drfComponent.xml
-rw-rw-r-- 1 cisco cisco     10272 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_UCM_ANN.tar
-rw-rw-r-- 1 cisco cisco    3123405 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_UCM_BAT.tar
-rw-rw-r-- 1 cisco cisco   37990432 Dec 24 13:27 2018-12-24-13-04-38_D3-SB-11PUB_UCM_CCMDB.tar
-rw-rw-r-- 1 cisco cisco   13015072 Dec 24 13:27 2018-12-24-13-04-38_D3-SB-11PUB_UCM_CMPREFS.tar
-rw-rw-r-- 1 cisco cisco     20538 Dec 24 13:27 2018-12-24-13-04-38_D3-SB-11PUB_UCM_CDPAGT.tar
-rw-rw-r-- 1 cisco cisco     10360 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_UCM_CEF.tar
-rw-rw-r-- 1 cisco cisco     10335 Dec 24 13:27 2018-12-24-13-04-38_D3-SB-11PUB_UCM_CLM.tar
-rw-rw-r-- 1 cisco cisco     20512 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_UCM_DNALIASSLOOKUP.tar
-rw-rw-r-- 1 cisco cisco     10272 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_UCM_DNALIASSYNC.tar
-rw-rw-r-- 1 cisco cisco   27904032 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_UCM_MOH.tar
-rw-rw-r-- 1 cisco cisco   1597472 Dec 24 13:27 2018-12-24-13-04-38_D3-SB-11PUB_UCM_PLATFORM.tar
-rw-rw-r-- 1 cisco cisco     20577 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_UCM_REPORTER.tar
-rw-rw-r-- 1 cisco cisco     10298 Dec 24 13:27 2018-12-24-13-04-38_D3-SB-11PUB_UCM_SYSLOGAGT.tar
-rw-rw-r-- 1 cisco cisco     10360 Dec 24 13:27 2018-12-24-13-04-38_D3-SB-11PUB_UCM_TCT.tar
-rw-rw-r-- 1 cisco cisco  2202353616 Dec 24 13:31 2018-12-24-13-04-38_D3-SB-11PUB_UCM_TFTP.tar
root@CM-SFTP:/home/cisco/UCM/Backups#

```

CUCM 先开始传输备份文件，然后再删除旧备份（达到 32 个文件）：

The screenshot shows the backup status window on the left and a terminal window on the right. The terminal window shows the execution of the backup command and the resulting file list. The backup status window shows the progress of the backup operation, with a status message indicating that the backup is in progress for server D3-SB-11PUB.

Backup Status Window:

- Status:** Backup operation in progress for server [D3-SB-11PUB], please wait...
- Backup details:**
 - Tar Filename: 2018-12-25-11-12-03.tar
 - Backup Device: NETWORK
 - Operation: BACKUP
 - Percentage Complete: 46%
- Table:**

Feature	Server	Component	Status	Result **
UCM	D3-SB-11PUB	CDPAGT	100	SUCCESS
UCM	D3-SB-11PUB	SYSLAGAGT	100	SUCCESS
UCM	D3-SB-11PUB	PLATFORM	100	SUCCESS
UCM	D3-SB-11PUB	CLM	100	SUCCESS
UCM	D3-SB-11PUB	CCMDB	100	SUCCESS
UCM	D3-SB-11PUB	TCT	100	SUCCESS
UCM	D3-SB-11PUB	CCMPREFS	100	SUCCESS
UCM	D3-SB-11PUB	TFTP	0	Active
UCM	D3-SB-11PUB	MOH	0	---
UCM	D3-SB-11PUB	ANN	0	---
UCM	D3-SB-11PUB	BAT	0	---
UCM	D3-SB-11PUB	CEF	0	---
UCM	D3-SB-11PUB	REPORTER	0	---
UCM	D3-SB-11PUB	DNALIASSLOOKUP	0	---
UCM	D3-SB-11PUB	DNALIASSYNC	0	---

Terminal Window:

```

root@CM-SFTP:/home/cisco/UCM/Backups# ll
total 2430840
drwxr-xr-x 2 cisco cisco      20480 Dec 25 11:35 ./
drwxr-xr-x 71 cisco cisco     12288 Dec 21 13:33 ../
-rw-rw-r-- 1 cisco cisco     23796 Dec 24 13:48 2018-12-24-13-21-17_D3-SB-11PUB_drfComponent.xml
-rw-rw-r-- 1 cisco cisco     10272 Dec 24 13:48 2018-12-24-13-21-17_D3-SB-11PUB_UCM_ANN.tar
-rw-rw-r-- 1 cisco cisco    3123405 Dec 24 13:48 2018-12-24-13-21-17_D3-SB-11PUB_UCM_BAT.tar
-rw-rw-r-- 1 cisco cisco   38024152 Dec 24 13:44 2018-12-24-13-21-17_D3-SB-11PUB_UCM_CCMDB.tar
-rw-rw-r-- 1 cisco cisco   13015072 Dec 24 13:44 2018-12-24-13-21-17_D3-SB-11PUB_UCM_CMPREFS.tar
-rw-rw-r-- 1 cisco cisco     20538 Dec 24 13:44 2018-12-24-13-21-17_D3-SB-11PUB_UCM_CDPAGT.tar
-rw-rw-r-- 1 cisco cisco     10360 Dec 24 13:48 2018-12-24-13-21-17_D3-SB-11PUB_UCM_CEF.tar
-rw-rw-r-- 1 cisco cisco     10335 Dec 24 13:44 2018-12-24-13-21-17_D3-SB-11PUB_UCM_CLM.tar
-rw-rw-r-- 1 cisco cisco     20512 Dec 24 13:48 2018-12-24-13-21-17_D3-SB-11PUB_UCM_DNALIASSLOOKUP.ta
-rw-rw-r-- 1 cisco cisco     10272 Dec 24 13:48 2018-12-24-13-21-17_D3-SB-11PUB_UCM_DNALIASSYNC.tar
-rw-rw-r-- 1 cisco cisco   27904032 Dec 24 13:44 2018-12-24-13-21-17_D3-SB-11PUB_UCM_MOH.tar
-rw-rw-r-- 1 cisco cisco   1597472 Dec 24 13:44 2018-12-24-13-21-17_D3-SB-11PUB_UCM_PLATFORM.tar
-rw-rw-r-- 1 cisco cisco     20577 Dec 24 13:48 2018-12-24-13-21-17_D3-SB-11PUB_UCM_REPORTER.tar
-rw-rw-r-- 1 cisco cisco     10298 Dec 24 13:44 2018-12-24-13-21-17_D3-SB-11PUB_UCM_SYSLOGAGT.tar
-rw-rw-r-- 1 cisco cisco     10360 Dec 24 13:44 2018-12-24-13-21-17_D3-SB-11PUB_UCM_TCT.tar
-rw-rw-r-- 1 cisco cisco  2202353616 Dec 24 13:48 2018-12-24-13-21-17_D3-SB-11PUB_UCM_TFTP.tar
-rw-rw-r-- 1 cisco cisco   42424352 Dec 25 11:35 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CCMDB.tar
-rw-rw-r-- 1 cisco cisco   38024152 Dec 25 11:35 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CMPREFS.tar
-rw-rw-r-- 1 cisco cisco     20538 Dec 25 11:34 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CDPAGT.tar
-rw-rw-r-- 1 cisco cisco     10335 Dec 25 11:34 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CLM.tar
-rw-rw-r-- 1 cisco cisco   1597472 Dec 25 11:34 2018-12-25-11-12-03_D3-SB-11PUB_UCM_PLATFORM.tar
-rw-rw-r-- 1 cisco cisco     10298 Dec 25 11:34 2018-12-25-11-12-03_D3-SB-11PUB_UCM_SYSLOGAGT.tar
-rw-rw-r-- 1 cisco cisco     10360 Dec 25 11:35 2018-12-25-11-12-03_D3-SB-11PUB_UCM_TCT.tar
-rw-rw-r-- 1 cisco cisco  148833964 Dec 25 11:35 2018-12-25-11-12-03_D3-SB-11PUB_UCM_TFTP.tar
root@CM-SFTP:/home/cisco/UCM/Backups#

```

备份完成后，DRS 将删除旧备份，使其与要在网络目录中存储的备份数量（16 个文件）相符：

The screenshot shows the backup status window on the left and a terminal window on the right. The backup status window shows the completion of the backup operation, with a status message indicating that the backup is successful. The terminal window shows the execution of the backup command and the resulting file list, which now includes the new backup file.

Backup Status Window:

- Status:** SUCCESS: Backup Completed...
- Backup details:**
 - Tar Filename: 2018-12-25-11-12-03.tar
 - Backup Device: NETWORK
 - Operation: BACKUP
 - Percentage Complete: 100%
- Table:**

Feature	Server	Component	Status	Result **
UCM	D3-SB-11PUB	CDPAGT	100	SUCCESS
UCM	D3-SB-11PUB	SYSLAGAGT	100	SUCCESS
UCM	D3-SB-11PUB	PLATFORM	100	SUCCESS
UCM	D3-SB-11PUB	CLM	100	SUCCESS
UCM	D3-SB-11PUB	CCMDB	100	SUCCESS
UCM	D3-SB-11PUB	TCT	100	SUCCESS
UCM	D3-SB-11PUB	CCMPREFS	100	SUCCESS
UCM	D3-SB-11PUB	TFTP	100	SUCCESS
UCM	D3-SB-11PUB	MOH	100	SUCCESS
UCM	D3-SB-11PUB	ANN	100	SUCCESS
UCM	D3-SB-11PUB	BAT	100	SUCCESS
UCM	D3-SB-11PUB	CEF	100	SUCCESS
UCM	D3-SB-11PUB	REPORTER	100	SUCCESS
UCM	D3-SB-11PUB	DNALIASSLOOKUP	100	SUCCESS
UCM	D3-SB-11PUB	DNALIASSYNC	100	SUCCESS

Terminal Window:

```

root@CM-SFTP:/home/cisco/UCM/Backups# ll
total 2236956
drwxr-xr-x 2 cisco cisco      20480 Dec 25 11:39 ./
drwxr-xr-x 71 cisco cisco     12288 Dec 21 13:33 ../
-rw-rw-r-- 1 cisco cisco     23791 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_drfComponent.xml
-rw-rw-r-- 1 cisco cisco     10272 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_ANN.tar
-rw-rw-r-- 1 cisco cisco    3123405 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_BAT.tar
-rw-rw-r-- 1 cisco cisco   42424352 Dec 25 11:35 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CCMDB.tar
-rw-rw-r-- 1 cisco cisco   13015072 Dec 25 11:35 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CMPREFS.tar
-rw-rw-r-- 1 cisco cisco     20538 Dec 25 11:34 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CDPAGT.tar
-rw-rw-r-- 1 cisco cisco     10360 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CEF.tar
-rw-rw-r-- 1 cisco cisco     10335 Dec 25 11:34 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CLM.tar
-rw-rw-r-- 1 cisco cisco     20512 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_DNALIASSLOOKUP.ta
-rw-rw-r-- 1 cisco cisco     10272 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_DNALIASSYNC.ta
-rw-rw-r-- 1 cisco cisco   27904032 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_MOH.tar
-rw-rw-r-- 1 cisco cisco   1597472 Dec 25 11:34 2018-12-25-11-12-03_D3-SB-11PUB_UCM_PLATFORM.tar
-rw-rw-r-- 1 cisco cisco     20577 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_REPORTER.tar
-rw-rw-r-- 1 cisco cisco     10298 Dec 25 11:34 2018-12-25-11-12-03_D3-SB-11PUB_UCM_SYSLOGAGT.tar
-rw-rw-r-- 1 cisco cisco     10360 Dec 25 11:35 2018-12-25-11-12-03_D3-SB-11PUB_UCM_TCT.tar
-rw-rw-r-- 1 cisco cisco  2202353616 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_TFTP.tar
root@CM-SFTP:/home/cisco/UCM/Backups#

```

已成功创建的新备份和已删除的旧备份的日志分析

+++++

启动手动备份时看到的消息：BEGIN MANUAL (开始手动)

+++++

```
2018-12-25 11:11:59,486 DEBUG [NetMessageDispatch] - drfMessageValidator.validateMessage():
Starting introspection for Message ID = 1700 Message Body =
===== BEGIN msgSubBackup_REQ =====
m_bLeaveTempBackupDirectoryInPlace      : false
destinationId      : TAC-Backup
backupType : MANUAL
featuresTobeBackedup : [UCM]
===== END msgSubBackup_REQ =====
```

+++++

这是作为备份设备添加的设备：TAC-Backup

+++++

```
2018-12-25 11:11:59,486 DEBUG [NetMessageDispatch] - drfMessageHandler.HandleBackup: The backup
is being processed for the device: TAC-Backup
```

+++++

确保可以访问 SFTP

+++++

```
2018-12-25 11:11:59,487 DEBUG [NetMessageDispatch] - drfMessageHandler.HandleBackup: Executing
sftpLsFiles to make sure SFTP is accessible.
2018-12-25 11:11:59,487 INFO [NetMessageDispatch] - drfUtils:sftpLsFiles-: Executing JSCH SFTP
ls command for: User: ciscoHostName: 192.X.X.250 from source :/UCM/Backups/ with pattern -l
2018-12-25 11:11:59,487 DEBUG [NetMessageDispatch] - drfUtils:establishSftpConnection: Trying to
connect to the SFTP server.
```

+++++

CUCM 连接到远程 SFTP 服务器

+++++

```
2018-12-25 11:11:59,617 DEBUG [NetMessageDispatch] - drfUtils:establishSftpConnection:
Authentication Completed Successfully, connected to remote server. Now opening a SFTP channel.
```

+++++

所选功能的数量：

找到 1 项选定功能

功能名称：UCM

+++++

```
2018-12-25 11:11:59,834 DEBUG [NetMessageDispatch] - drfMessageHandler:setComponentBackupType:
Found 1 features selected for Restore
2018-12-25 11:11:59,834 DEBUG [NetMessageDispatch] - drfMessageHandler:setComponentBackupType:
Feature Name: UCM. Server Name: D3-SB-11PUB. Component Name: CDPAGTDDirectBackup set to : yes
2018-12-25 11:11:59,834 DEBUG [NetMessageDispatch] - drfMessageHandler:setComponentBackupType:
Feature Name: UCM. Server Name: D3-SB-11PUB. Component Name: SYSLOGAGTDDirectBackup set to : yes
2018-12-25 11:11:59,834 DEBUG [NetMessageDispatch] - drfMessageHandler:setComponentBackupType:
Feature Name: UCM. Server Name: D3-SB-11PUB. Component Name: PLATFORMDirectBackup set to : yes
2018-12-25 11:11:59,834 DEBUG [NetMessageDispatch] - drfMessageHandler:setComponentBackupType:
Feature Name: UCM. Server Name: D3-SB-11PUB. Component Name: CLMDirectBackup set to : yes
2018-12-25 11:11:59,834 DEBUG [NetMessageDispatch] - drfMessageHandler:setComponentBackupType:
Feature Name: UCM. Server Name: D3-SB-11PUB. Component Name: CCMDBDirectBackup set to : yes
```

2018-12-25 11:11:59,834 DEBUG [NetMessageDispatch] - drfMessageHandler:setComponentBackupType:
Feature Name: UCM. Server Name: D3-SB-11PUB. Component Name: TCTDirectBackup set to : yes
2018-12-25 11:11:59,835 DEBUG [NetMessageDispatch] - drfMessageHandler:setComponentBackupType:
Feature Name: UCM. Server Name: D3-SB-11PUB. Component Name: CCMPREFSDirectBackup set to : yes
2018-12-25 11:11:59,835 DEBUG [NetMessageDispatch] - drfMessageHandler:setComponentBackupType:
Feature Name: UCM. Server Name: D3-SB-11PUB. Component Name: TFTPDirectBackup set to : yes
2018-12-25 11:11:59,835 DEBUG [NetMessageDispatch] - drfMessageHandler:setComponentBackupType:
Feature Name: UCM. Server Name: D3-SB-11PUB. Component Name: MOHDirectBackup set to : yes
2018-12-25 11:11:59,835 DEBUG [NetMessageDispatch] - drfMessageHandler:setComponentBackupType:
Feature Name: UCM. Server Name: D3-SB-11PUB. Component Name: ANNDirectBackup set to : yes
2018-12-25 11:11:59,835 DEBUG [NetMessageDispatch] - drfMessageHandler:setComponentBackupType:
Feature Name: UCM. Server Name: D3-SB-11PUB. Component Name: BATDirectBackup set to : yes
2018-12-25 11:11:59,835 DEBUG [NetMessageDispatch] - drfMessageHandler:setComponentBackupType:
Feature Name: UCM. Server Name: D3-SB-11PUB. Component Name: CEFDirectBackup set to : yes
2018-12-25 11:11:59,835 DEBUG [NetMessageDispatch] - drfMessageHandler:setComponentBackupType:
Feature Name: UCM. Server Name: D3-SB-11PUB. Component Name: REPORTERDirectBackup set to : yes
2018-12-25 11:11:59,835 DEBUG [NetMessageDispatch] - drfMessageHandler:setComponentBackupType:
Feature Name: UCM. Server Name: D3-SB-11PUB. Component Name: DNALIASSLOOKUPDirectBackup set to :
yes
2018-12-25 11:11:59,835 DEBUG [NetMessageDispatch] - drfMessageHandler:setComponentBackupType:
Feature Name: UCM. Server Name: D3-SB-11PUB. Component Name: DNALIASSYNCDirectBackup set to :
yes

++++
在给定路径中找到 33 个文件
++++

2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 33 files found at the
given path
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-24-13-21-17_D3-
SB-11PUB_UCM_PLATFORM.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-24-13-21-17_D3-
SB-11PUB_drfComponent.xml
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_REPORTER.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_CLM.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-24-13-21-17_D3-
SB-11PUB_UCM_DNALIASSYNC.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-24-13-21-17_D3-
SB-11PUB_UCM_REPORTER.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_MOH.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_BAT.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-24-13-21-17_D3-
SB-11PUB_UCM_CCMDB.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-24-13-21-17_D3-
SB-11PUB_UCM_SYSLOGAGT.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_CEF.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_CCMPREFS.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-24-13-21-17_D3-
SB-11PUB_UCM_CCMPREFS.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_TCT.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-24-13-21-17_D3-
SB-11PUB_UCM_CEF.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_PLATFORM.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-

SB-11PUB_UCM_CDPAGT.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-SB-11PUB_UCM_ANN.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-SB-11PUB_UCM_SYSLOGAGT.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-24-13-21-17_D3-SB-11PUB_UCM_TFTP.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-SB-11PUB_UCM_TFTP.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CCMDB.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-24-13-21-17_D3-SB-11PUB_UCM_ANN.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-SB-11PUB_UCM_DNALIASSYNC.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-SB-11PUB_UCM_DNALIASSLOOKUP.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-24-13-21-17_D3-SB-11PUB_UCM_CDPAGT.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-24-13-21-17_D3-SB-11PUB_UCM_MOH.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-24-13-21-17_D3-SB-11PUB_UCM_CLM.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-24-13-21-17_D3-SB-11PUB_UCM_DNALIASSLOOKUP.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-24-13-21-17_D3-SB-11PUB_UCM_BAT.tar
2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-24-13-21-17_D3-SB-11PUB_UCM_TCT.tar

+++++

这用于跟踪备份数量：
DRS 获取先前备份 ID 的列表：
2018-12-24-13-21-17
2018-12-25-11-12-03

+++++

2018-12-25 11:16:23,887 INFO [TarWorkerThread] - drfSftpManager:drfGetListOfBackups: Adding the backup id after the _pubhostname filtering:2018-12-24-13-21-17
2018-12-25 11:16:23,887 INFO [TarWorkerThread] - drfSftpManager:drfGetListOfBackups: Adding the backup id after the _pubhostname filtering:2018-12-25-11-12-03

+++++

列表大小：1

+++++

2018-12-25 11:16:24,852 INFO [TarWorkerThread] - drfSftpManager.RemoveOldBackupSet: list size :
1

+++++

CUCM 将删除：/UCM/Backups/2018-12-24-13-21-17_D3-SB-11PUB*

+++++

2018-12-25 11:16:24,852 INFO [TarWorkerThread] - drfSftpManager.RemoveOldBackupSet: Removing:
/UCM/Backups/2018-12-24-13-21-17_D3-SB-11PUB*

+++++

现在，列表中只有 1 个备份

+++++

```
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 18 files found at the
given path
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_REPORTER.tar
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_CLM.tar
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_MOH.tar
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_BAT.tar
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_CEF.tar
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_CCMPPREFS.tar
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_TCT.tar
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_PLATFORM.tar
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_CDPAGT.tar
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_ANN.tar
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_SYSLOGAGT.tar
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_TFTP.tar
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_CCMDB.tar
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_DNALIASSYNC.tar
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_UCM_DNALIASSLOOKUP.tar
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-25-11-12-03_D3-
SB-11PUB_drfComponent.xml
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: Found 16 matching the
search criteria.
```

```
+++++
CUCM 将关闭 ChannelSftp...
+++++
```

```
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfUtils:closeSFTPConnections: Closing
ChannelSftp...
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfUtils:closeSFTPConnections: Disconnecting
Channel...
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfUtils:closeSFTPConnections: Closing
Session...
```

```
+++++
备份操作已完成
+++++
```

```
2018-12-25 11:16:26,572 INFO [TarWorkerThread] - {STATE_IDLE} drfBackup:CompleteBackup(Device=-
): === BACKUP operation COMPLETED ===
```

验证

为了验证备份是否成功，您需要查看状态消息成功：备份已完成，如图所示：

Backup Status

Refresh Cancel

Status

SUCCESS: Backup Completed...

Backup details

Tar Filename: 2018-12-25-11-12-03.tar
 Backup Device: NETWORK
 Operation: BACKUP
 Percentage Complete: 100%

Feature	Server	Component	Status	Result **
UCM	D3-SB-11PUB	CDPAGT	100	SUCCESS
UCM	D3-SB-11PUB	SYSLAGT	100	SUCCESS
UCM	D3-SB-11PUB	PLATFORM	100	SUCCESS
UCM	D3-SB-11PUB	CLM	100	SUCCESS
UCM	D3-SB-11PUB	CCMDB	100	SUCCESS
UCM	D3-SB-11PUB	TCT	100	SUCCESS
UCM	D3-SB-11PUB	CCMPREFS	100	SUCCESS
UCM	D3-SB-11PUB	TFTP	100	SUCCESS
UCM	D3-SB-11PUB	MOH	100	SUCCESS
UCM	D3-SB-11PUB	ANN	100	SUCCESS
UCM	D3-SB-11PUB	BAT	100	SUCCESS
UCM	D3-SB-11PUB	CEF	100	SUCCESS
UCM	D3-SB-11PUB	REPORTER	100	SUCCESS
UCM	D3-SB-11PUB	DNALIASLOOKUP	100	SUCCESS
UCM	D3-SB-11PUB	DNALIASSYNC	100	SUCCESS

Refresh Cancel Backup

* Click on the filename to view the log file

```

root@CM-SFTP:/home/cisco/UCM/Backups# ll
total 2236956
drwxr-xr-x 2 cisco cisco 20480 Dec 25 11:39 ./
drwxr-xr-x 71 cisco cisco 12288 Dec 21 13:33 ../
-rw-rw-r-- 1 cisco cisco 23791 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_drfComponent.xml
-rw-rw-r-- 1 cisco cisco 10272 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_ANN.tar
-rw-rw-r-- 1 cisco cisco 3123405 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_BAT.tar
-rw-rw-r-- 1 cisco cisco 42424352 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CCMDB.tar
-rw-rw-r-- 1 cisco cisco 13015072 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CCMPPREFS.tar
-rw-rw-r-- 1 cisco cisco 20538 Dec 25 11:34 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CDPAGT.tar
-rw-rw-r-- 1 cisco cisco 10360 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CEF.tar
-rw-rw-r-- 1 cisco cisco 10335 Dec 25 11:34 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CLM.tar
-rw-rw-r-- 1 cisco cisco 20512 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_DNALIASLOOKUP.tar
-rw-rw-r-- 1 cisco cisco 10272 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_DNALIASSYNC.tar
-rw-rw-r-- 1 cisco cisco 27904032 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_MOH.tar
-rw-rw-r-- 1 cisco cisco 1597472 Dec 25 11:34 2018-12-25-11-12-03_D3-SB-11PUB_UCM_PLATFORM.tar
-rw-rw-r-- 1 cisco cisco 20577 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_REPORTER.tar
-rw-rw-r-- 1 cisco cisco 10298 Dec 25 11:34 2018-12-25-11-12-03_D3-SB-11PUB_UCM_SYSLAGT.tar
-rw-rw-r-- 1 cisco cisco 10360 Dec 25 11:35 2018-12-25-11-12-03_D3-SB-11PUB_UCM_TCT.tar
-rw-rw-r-- 1 cisco cisco 2202353616 Dec 25 11:39 2018-12-25-11-12-03_D3-SB-11PUB_UCM_TFTP.tar
root@CM-SFTP:/home/cisco/UCM/Backups#

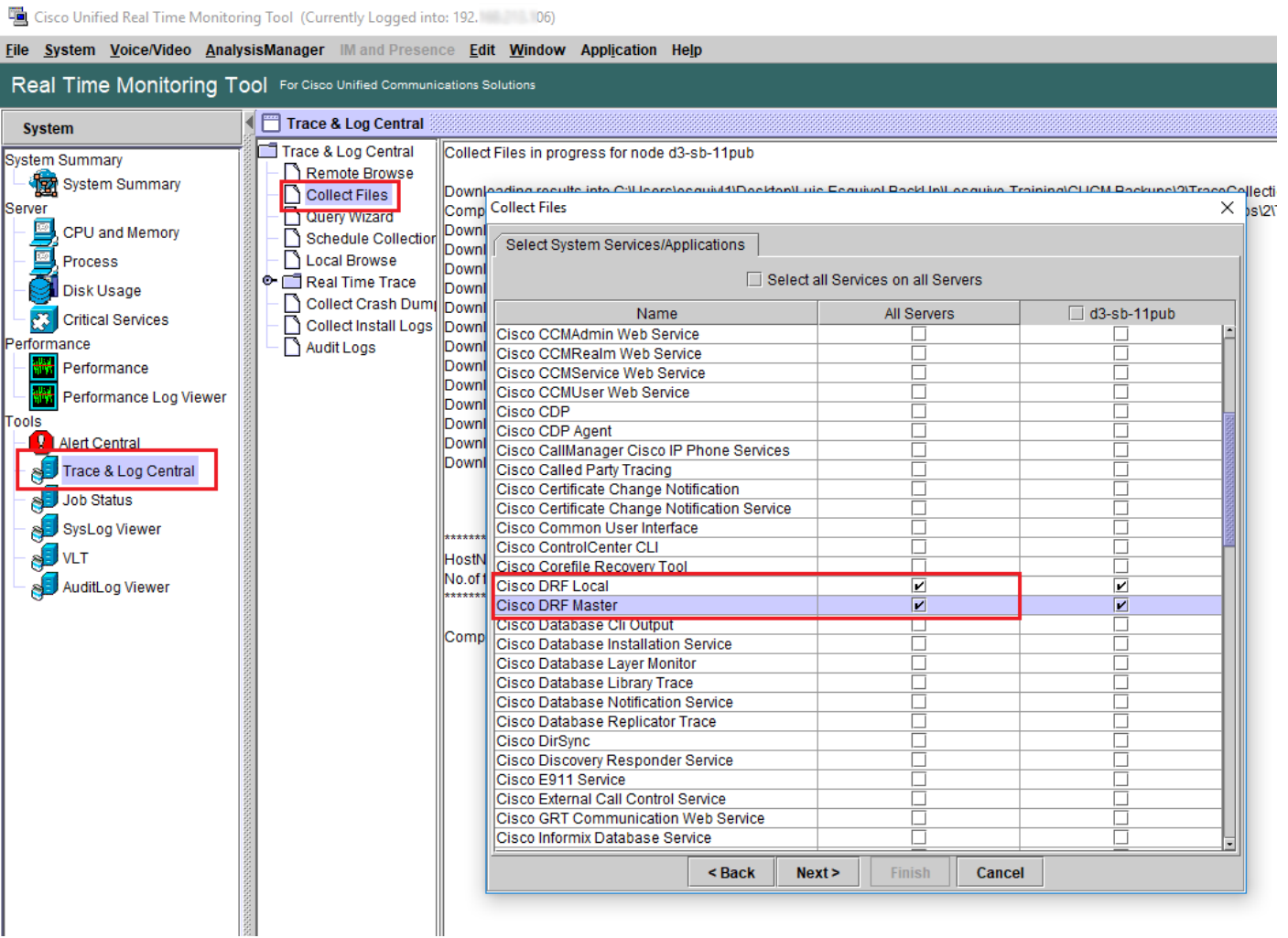
```

故障排除

要对 CUCM 中的备份进行故障排除，您需要：

- DRF 本地日志
- DRF 主日志

在 RTMT 中，导航至所有服务器的 Trace and Log Central (跟踪和日志中心) > Collect Files (收集文件) > Cisco DRF Local & Cisco DRF Master (Cisco DRF Local 和 Cisco DRF Master)，如图所示：



您可以在[如何收集 CUCM 9.X 或更高版本的跟踪信息](#)中找到详细信息

建议访问远程 SFTP。