

Configure and Troubleshoot Cisco Unified Communication Manager (CUCM) Backups

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Introduction

This document describes the procedure to add a backup device to Cisco Unified Communication Manager (CUCM).

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco Unified Communication Manager (CUCM)
- Secure File Transfer Protocol (SFTP) server administration

Components Used

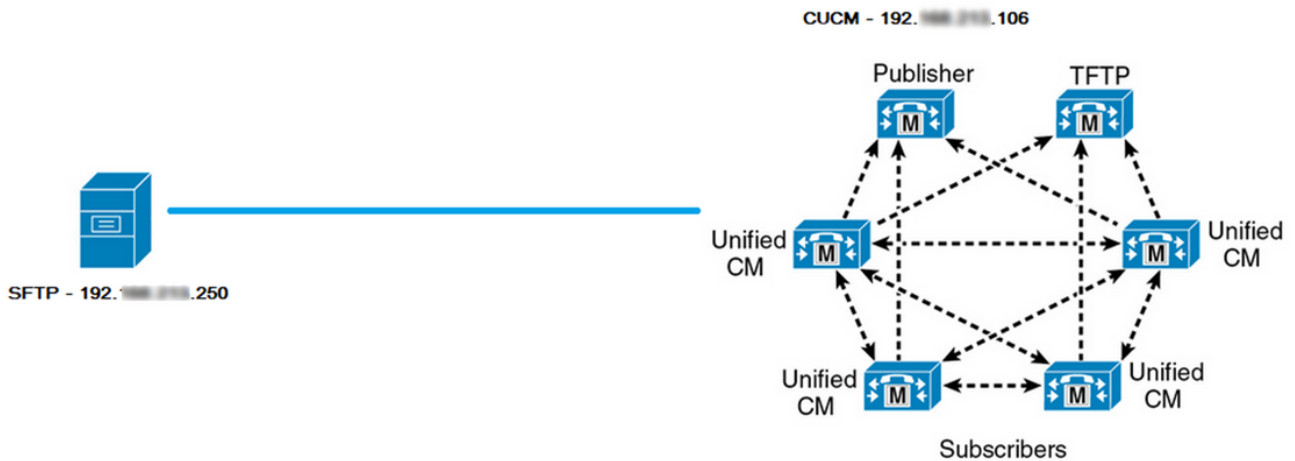
- Cisco Unified Communications Manager 11.5
- Linux SFTP server

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Background Information

The goal of backups available in your environment with any software is to be able to recover in case of disaster. Backups are important in order to prevent loss of data when software is corrupted, hardware fails, or natural disasters occur.

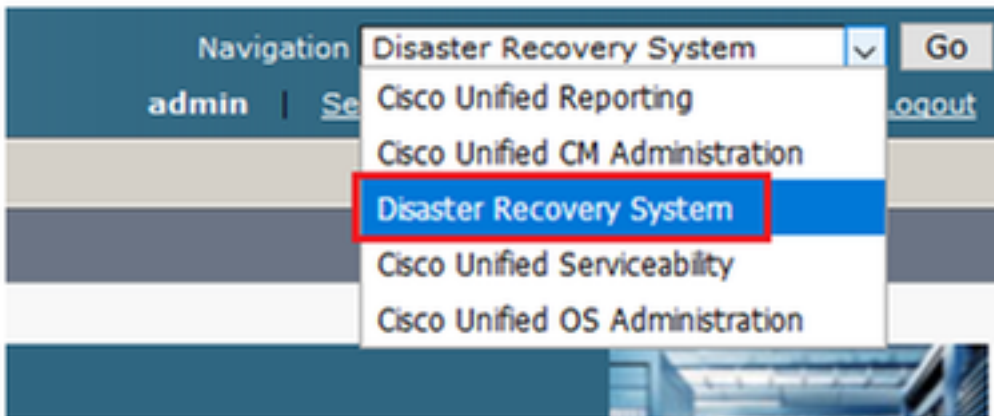
CUCM and SFTP topology as shown in the image:

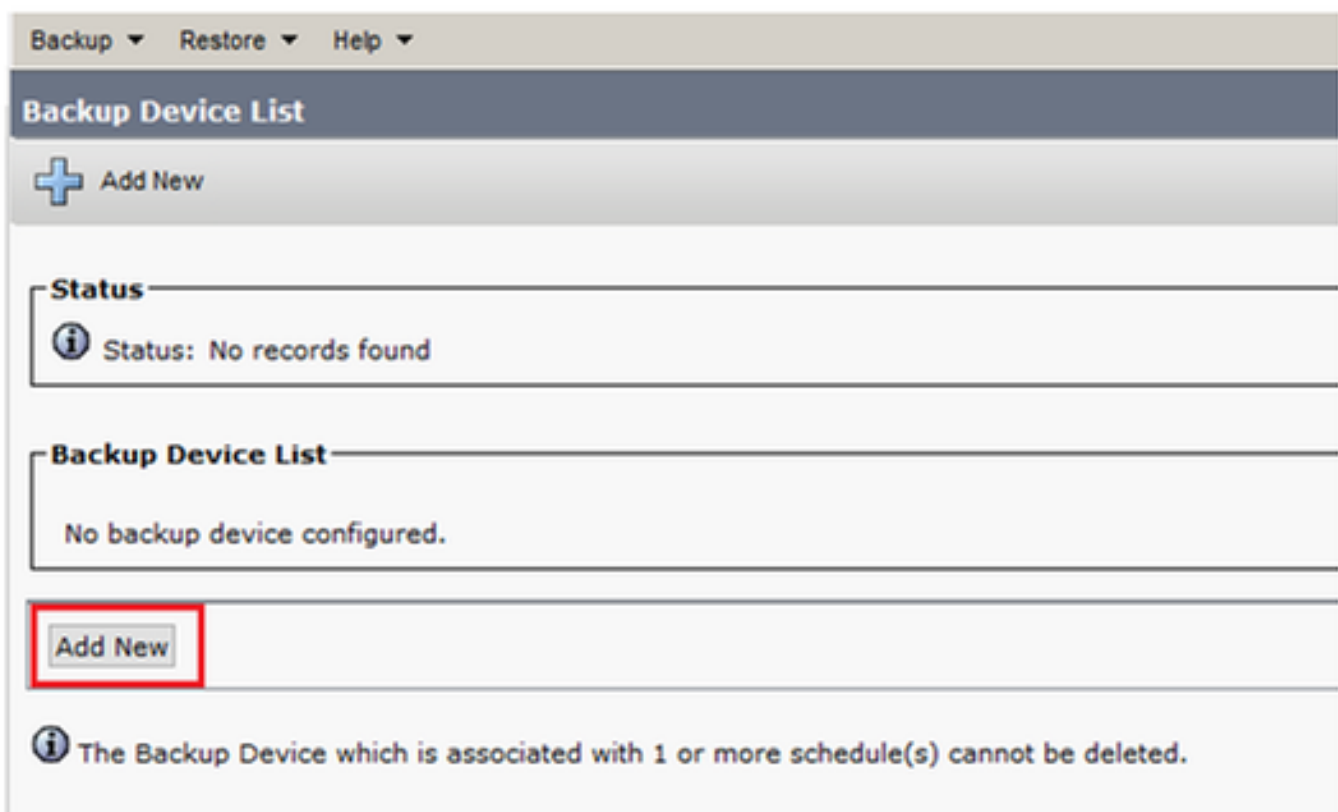
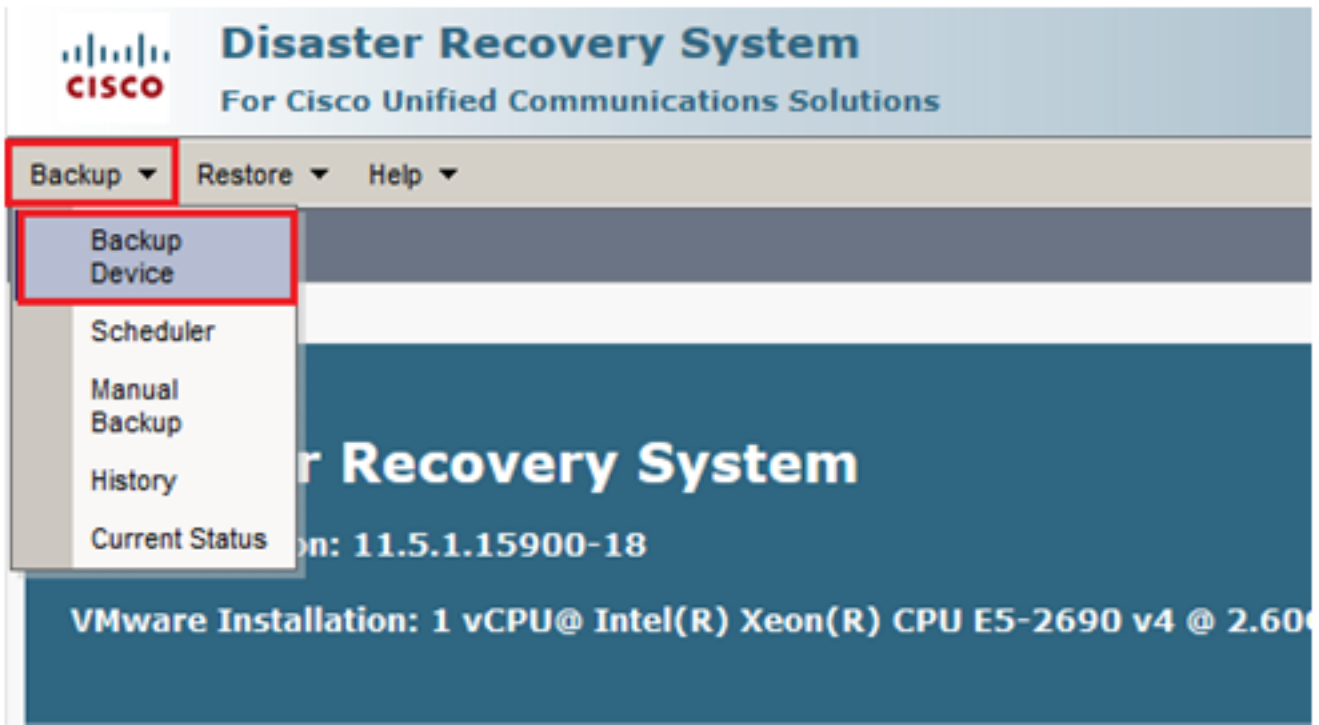


Configure

Add Backup Device via GUI Procedure

Step 1. Navigate to **CUCM > Disaster Recovery System > Backup > Backup Device** and click on **Add New** as shown in the images:







Step 2. Add a Backup Device name, IP address, Path name, User name and Password as shown in the images:

- The IP Address must be the destination SFTP server where backups are stored.
- The Path name is the directory within the SFTP server where backups are stored.
- User name and Password must exist within the SFTP server for authentication purposes.
- The Number of backups to store in the Network Directory must be set to the number of backups that need to be kept within the SFTP directory.


When finished, click **Save**.

Backup ▾ Restore ▾ Help ▾

Backup Device

 Save  Back

Status

 Status: Ready

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 ▾

Confirm **Update successful** as shown in the image:

Backup Device

Save  Back

Status

 Update successful


Backup device name

Backup device name*

Select Destination*

Network Directory

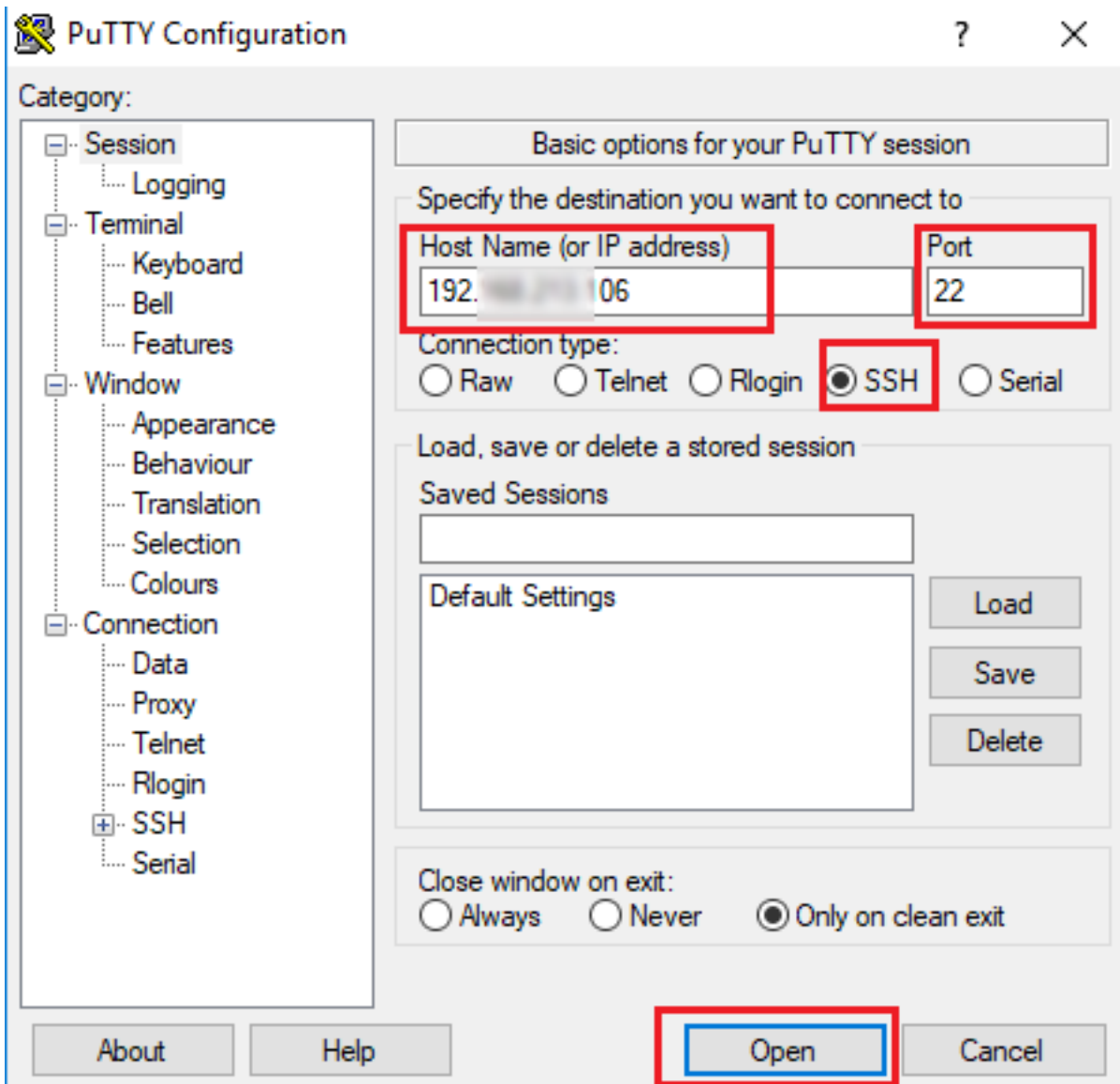
Host name/IP address	<input type="text" value="192.168.1.250"/>
Path name	<input type="text" value="/UCM/Backups/"/>
User name	<input type="text" value="cisco"/>
Password	<input type="password" value="*****"/>

Number of backups to store on Network Directory 

Save

Add Backup Device via CLI Procedure

Step 1. Secure Shell (SSH) into the IP address of the CUCM Publisher and authenticate with the Operating System (OS) username and password as shown in the images:



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
```

Step 2. Add the backup device with the syntax: **utils disaster_recovery device add network** <backup device name> <path> <ip-address of remote server> <username> [number of backups] as shown in the image:

```
admin:utils disaster_recovery device add network TAC-Backup /UCM/Backups/ 192.X.X.250 cisco 1
Please enter password to connect to network server 192.X.X.250:*****
drfCliMsg: Backup Device has been saved successfully.
admin:
```

At the time of this Add Backup Device procedure, these steps take place in CUCM:

1. Contact the SFTP server and authenticate
2. Transfer a test file to the directory
3. Disconnect from the SFTP server
4. Contact the SFTP server and authenticate
5. Delete the test file in the directory
6. Disconnect from the SFTP server

Note: If any of these steps fail, CUCM is unable to add the backup device.

Log Analysis of Add a Backup Device

```
+++++
UpdateDestination request is sent to add new backup destination
+++++
```

```
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 attempts to connect to the SFTP server
+++++
```

```
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...
```

```
+++++
Authentication Completed Successfully
+++++
```

```
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 transfers files from: /common/drf/d3-sb-11pub_dUmmI_Drf to the server: 192.X.X.250
/UCM/Backups/d3-sb-11pub_dUmmI_Drf
This is done to confirm if CUCM has read/write privileges.
++++

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

++++
File Transfer Completed
++++

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

++++
CUCM closes 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 attempts to connect to the SFTP server
++++

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...

++++
Authentication Completed Successfully
++++

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

++++
CUCM deletes files /UCM/Backups/d3-sb-11pub_dUmmI_Drf from the server: 192.X.X.250
This is done to confirm if CUCM has read/write privileges.
++++

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

++++

Successfully deleted

+++++

```
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
```

+++++

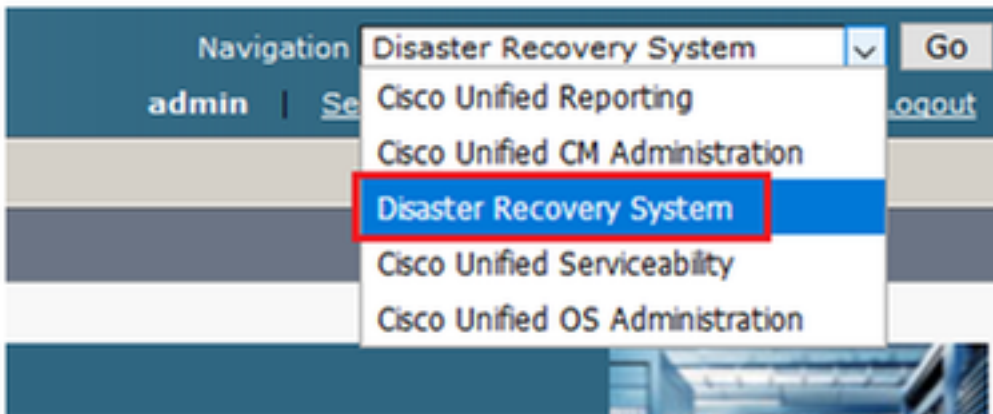
CUCM closes ChannelSftp...

+++++

```
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...
```

Start a Manual Backup via GUI Procedure

Step 1. Navigate to **CUCM > Disaster Recovery System > Backup > Manual Backup** as shown in the images:





Step 2. **Select the Backup Device, the features to be backed up and click Start.** For this example, only the UCM feature is backed up as shown in the image:

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	
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

- When the backup is in progress, you see a status indication as shown in the image:

Backup Status

Refresh Cancel

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	---	---	

Refresh Cancel Backup

- When the backup is complete, you see a **SUCCESS** message that indicates the **Backup Completed** in CUCM as shown in the image:

Backup Status

Refresh Cancel

Status
 SUCCESS: Backup Completed...

Backup details

Tar Filename: 2018-12-24-13-04-38.tar
 Backup Device: NETWORK
 Operation: BACKUP
 Percentage Complete: 100%

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	100	SUCCESS	Mon Dec 24 13:04:44 PST 2018	2018-12-24-13-04-38_b_d3-sb-11pub_ucm_ccmdb.log
UCM	D3-SB-11PUB	TCT	100	SUCCESS	Mon Dec 24 13:04:59 PST 2018	2018-12-24-13-04-38_b_d3-sb-11pub_ucm_tct.log
UCM	D3-SB-11PUB	CCMPREFS	100	SUCCESS	Mon Dec 24 13:05:00 PST 2018	2018-12-24-13-04-38_b_d3-sb-11pub_ucm_ccmprefs.log
UCM	D3-SB-11PUB	TFTP	100	SUCCESS	Mon Dec 24 13:05:03 PST 2018	2018-12-24-13-04-38_b_d3-sb-11pub_ucm_tftp.log
UCM	D3-SB-11PUB	MOH	100	SUCCESS	Mon Dec 24 13:08:57 PST 2018	2018-12-24-13-04-38_b_d3-sb-11pub_ucm_moh.log
UCM	D3-SB-11PUB	ANN	100	SUCCESS	Mon Dec 24 13:09:00 PST 2018	2018-12-24-13-04-38_b_d3-sb-11pub_ucm_ann.log
UCM	D3-SB-11PUB	BAT	100	SUCCESS	Mon Dec 24 13:09:00 PST 2018	2018-12-24-13-04-38_b_d3-sb-11pub_ucm_bat.log
UCM	D3-SB-11PUB	CEF	100	SUCCESS	Mon Dec 24 13:09:02 PST 2018	2018-12-24-13-04-38_b_d3-sb-11pub_ucm_cef.log
UCM	D3-SB-11PUB	REPORTER	100	SUCCESS	Mon Dec 24 13:09:03 PST 2018	2018-12-24-13-04-38_b_d3-sb-11pub_ucm_reporter.log
UCM	D3-SB-11PUB	DNALIASLOOKUP	100	SUCCESS	Mon Dec 24 13:09:04 PST 2018	2018-12-24-13-04-38_b_d3-sb-11pub_ucm_dnaliaslookup.log
UCM	D3-SB-11PUB	DNALIASSYNC	100	SUCCESS	Mon Dec 24 13:09:05 PST 2018	2018-12-24-13-04-38_b_d3-sb-11pub_ucm_dnaliassync.log

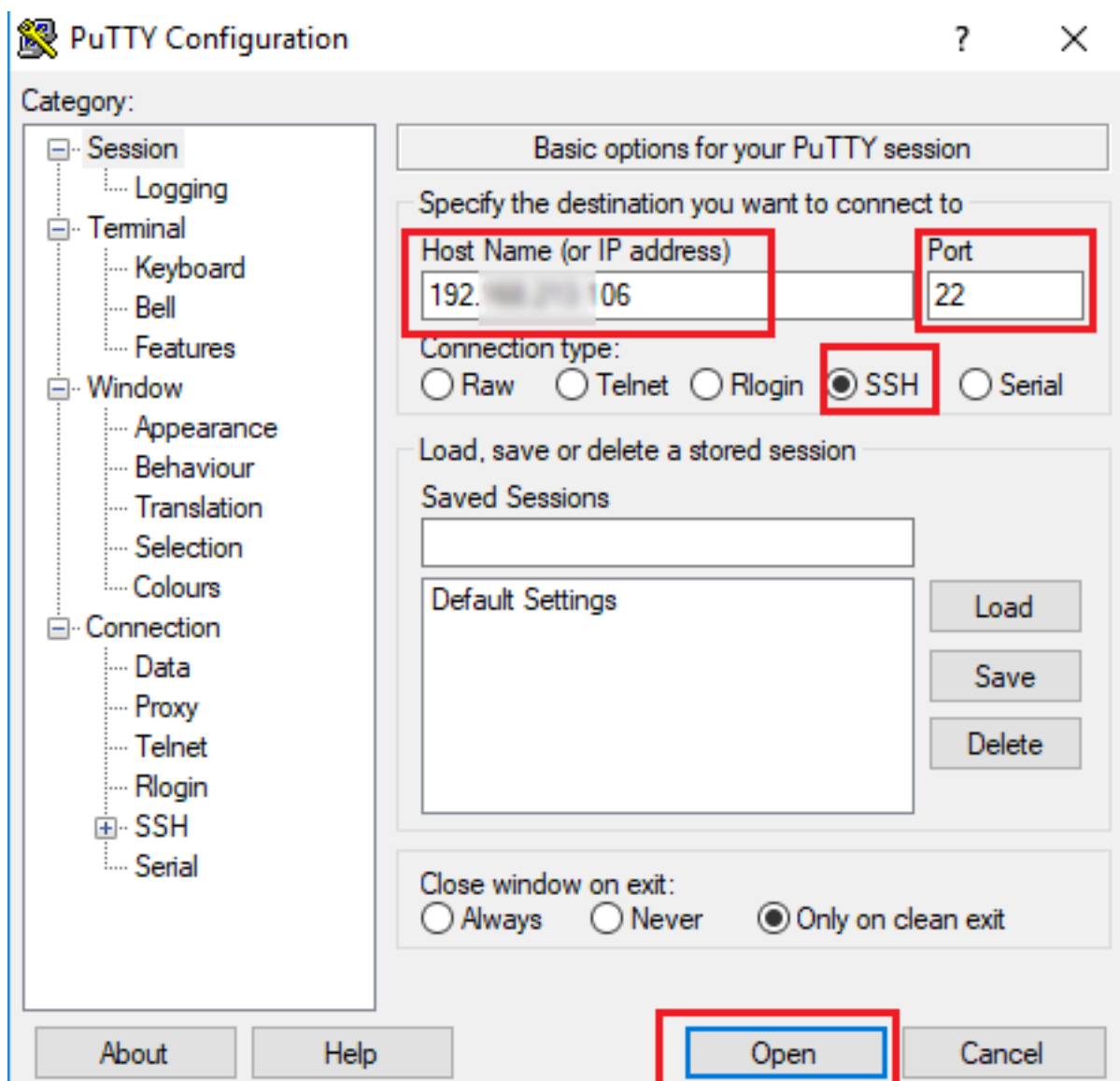
Refresh Cancel Backup

- When the backup is complete, you see the .TAR files in the SFTP directory as shown in the image. These files are used later one, if a restore is required:

```
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_CCMPREFS.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#
```

Start a Manual Backup via CLI Procedure

Step 1. Secure Shell (SSH) into the IP address of the CUCM Publisher and authenticate with the OS username and password as shown in the image:



Step 2. Start a Manual backup with the command syntax: **utils disaster_recovery backup**

network <featurelist> <backup device name> as shown in the image:

```
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
```

- When the backup is in progress, you see a status indication with the command syntax: **utils disaster_recovery status backup** as shown in the image:

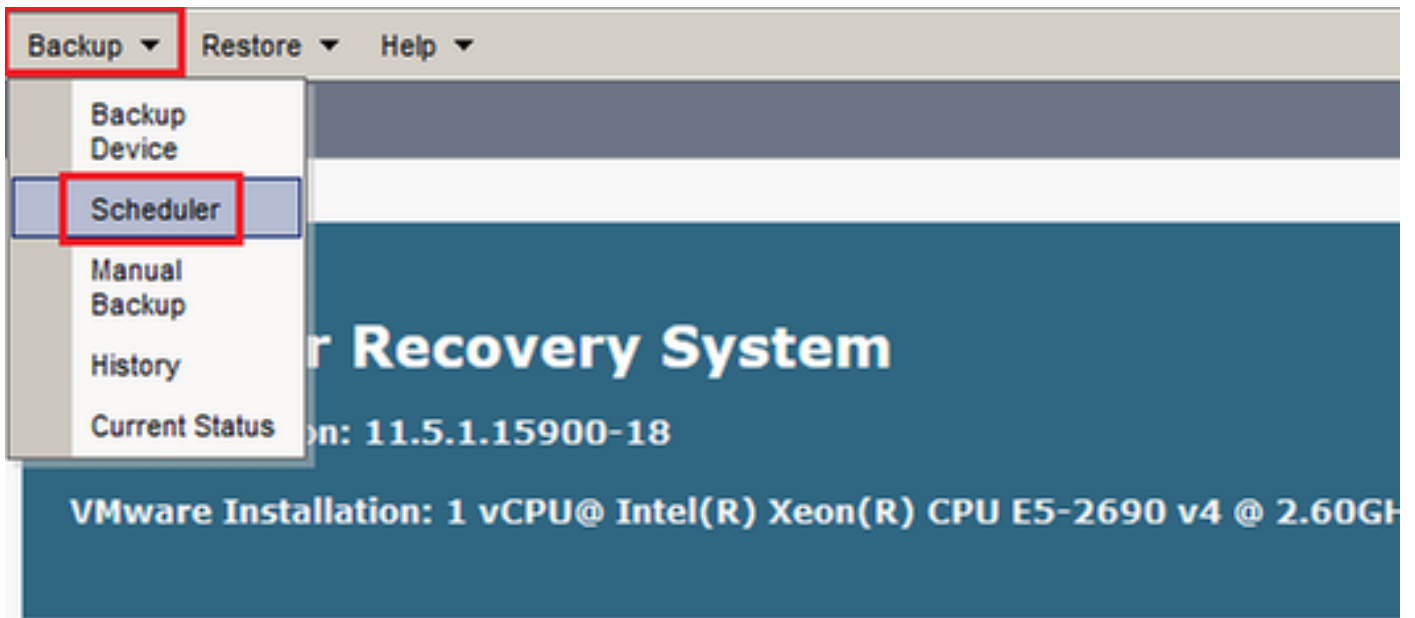
```
192.168.1.106 - PuTTY
admin:utils disaster_recovery status backup
Status: Backup operation in progress for server [D3-SB-11PUB], please wait...
Tar Filename: 2018-12-24-13-21-17.tar
Storage Location: NETWORK
Operation: backup
Percentage Complete: 46
UCM D3-SB-11PUB CDPAGT SUCCESS Mon Dec 24 13:21:17 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 DNALIASSYNC --- ---
```

- When the backup is complete, you see a success message with the command syntax: **utils disaster_recovery status backup** as shown in the image:

```
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 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 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_dnaliassync.log
admin:
```

Enable Scheduled Backup via GUI Procedure

Step 1. Navigate to **CUCM > Disaster Recovery System > Backup > Scheduler >> Add New** as shown in the images:



Step 2. Add a name for the automatic backup task as shown in the image:

Scheduler

Save Set Default Disable Schedule Enable Schedule Back

Status
 Status: Ready

Schedule Name
 Schedule Name* Weekly-Backup

Select Backup Device

Step 3. Select a backup device

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

Step 4. Select the features to be backed up

Select Backup Device
 Device Name* TAC-Backup

Select Features *
 UCM CDR_CAR PLM

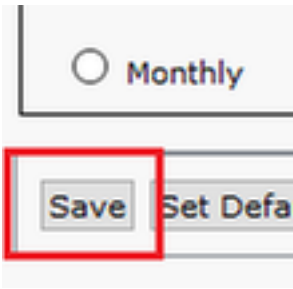
The following components are registered with Disaster Recovery System:

Step 5. Choose a start date and choose the frequency:

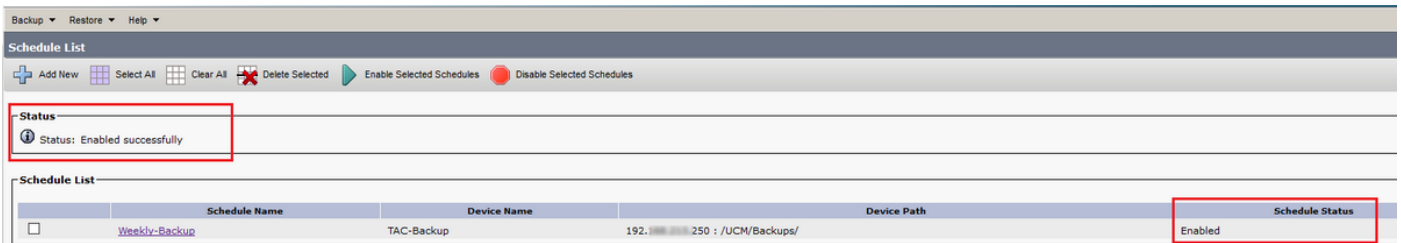
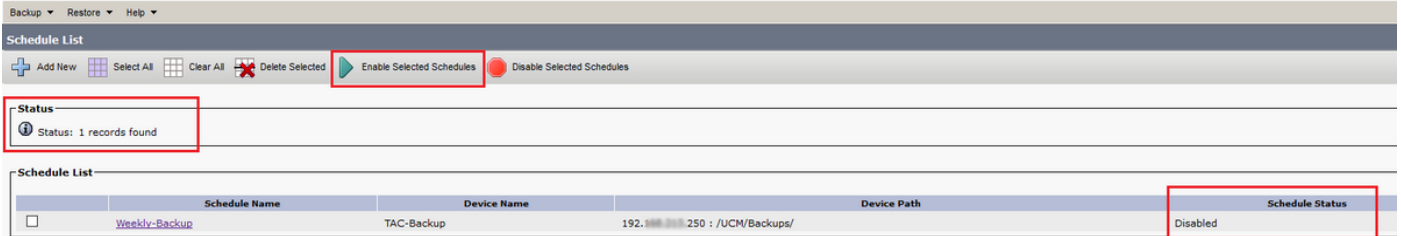
Start Backup at*
 Date 2018 Dec 30 Time 00 Hour 00 Minute

Frequency*
 Once
 Daily
 Weekly
 Monday Tuesday Wednesday Thursday
 Friday Saturday Sunday
 Monthly

Step 6. Save

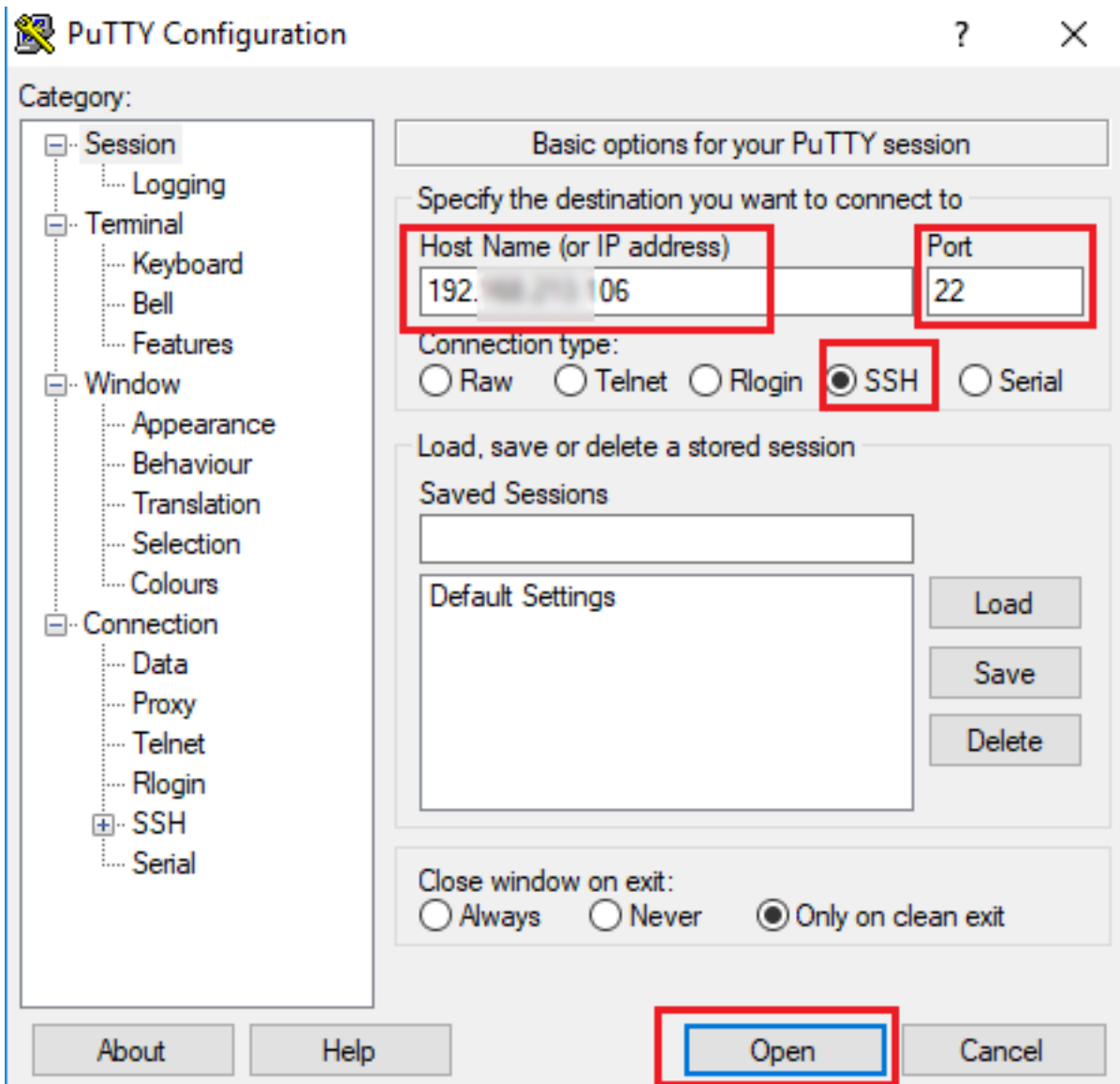


Step 7. Enable the scheduled backup:

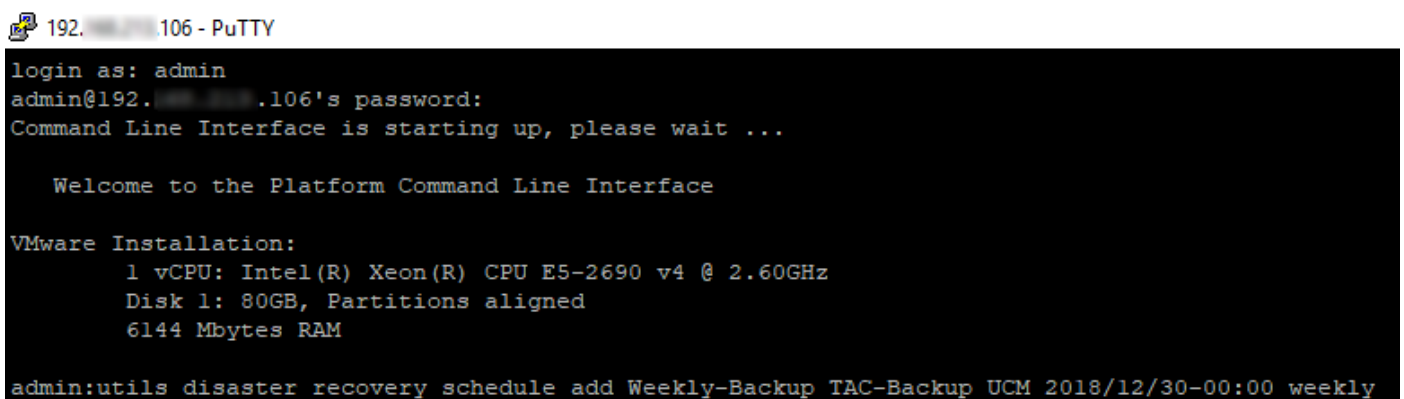


Enable Scheduled Backup via CLI Procedure

Step 1. Secure Shell (SSH) into the IP address of the CUCM Publisher and authenticate with the OS username and password as shown in the image:



Step 2. Add the scheduled backup with the command syntax: **utils disaster_recovery schedule add <schedulename> <devicename> <featurelist> <datetime> <frequency>** as shown in the image:



Step 3. **Enable the scheduled backup** with the command syntax: **utils disaster_recovery schedule enable <schedulename>** as shown in the image:

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

CUCM Delete an Old Backup Example

Backup device configuration with Number of Backups set to 1 as shown in the image:

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

Backup directory with only 1 backup available (16 files) as shown in the image:

```
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_CCOMPREFS.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#
```

CUCM first starts to transfer backup files before it deletes the old backup (Reaches 32 files):

The screenshot shows the Backup Status window with the following details:

- 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%

The terminal window shows the following file listing:

```

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_CMDB.tar
-rw-rw-r-- 1 cisco cisco 38021152 Dec 24 13:44 2018-12-24-13-21-17_D3-SB-11PUB_UCM_CDPAGT.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_DNALIASSYNC.tar
-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 13:48 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_CMDB.tar
-rw-rw-r-- 1 cisco cisco 13015072 Dec 25 11:35 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CDPAGT.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 148833984 Dec 25 11:35 2018-12-25-11-12-03_D3-SB-11PUB_UCM_TFTP.tar

```

Once the backup is complete, DRS deletes the old backup to be in compliance with the number of backups to store in Network Directory (16 files):

The screenshot shows the Backup Status window with the following details:

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

The terminal window shows the following file listing:

```

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_CMDB.tar
-rw-rw-r-- 1 cisco cisco 42424352 Dec 25 11:35 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CMDB.tar
-rw-rw-r-- 1 cisco cisco 13015072 Dec 25 11:35 2018-12-25-11-12-03_D3-SB-11PUB_UCM_CDPAGT.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_DNALIASSYNC.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_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

```

Log Analysis of Successful New Backup Created and Old Backup Deleted

+++++

The message you see when a manual backup is started: BEGIN MANUAL

+++++

```

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 =====

```

+++++

This is the device that was added as a backup device: TAC-Backup

+++++

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

+++++

Ensure SFTP is accessible

+++++

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 connects to remote SFTP server

+++++

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

+++++

Number of features that were selected:

Found 1 features selected

Feature Name: 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: CDPAGTDirectBackup set to : yes

2018-12-25 11:11:59,834 DEBUG [NetMessageDispatch] - drfMessageHandler:setComponentBackupType: Feature Name: UCM. Server Name: D3-SB-11PUB. Component Name: SYSLOGAGTDirectBackup 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: CCMREFSDirectBackup 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: DNALIASLOOKUPDirectBackup 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

++++
33 files found at the given path
++++

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_CCMPPREFS.tar
- 2018-12-25 11:16:23,886 DEBUG [TarWorkerThread] - drfutils.sftpLsFiles-: 2018-12-24-13-21-17_D3-SB-11PUB_UCM_CCMPPREFS.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_DNALIASLOOKUP.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_DNALIASKLOOKUP.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

++++
This is used to keep track of number of backups:
DRS gets a list of its previous backup IDs:
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

++++
list size : 1
++++

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

++++
CUCM removes: /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*

++++
List now only has 1 backup
++++

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_CCMPREFS.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_DNALIASKLOOKUP.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 closes ChannelSftp...
+++++
```

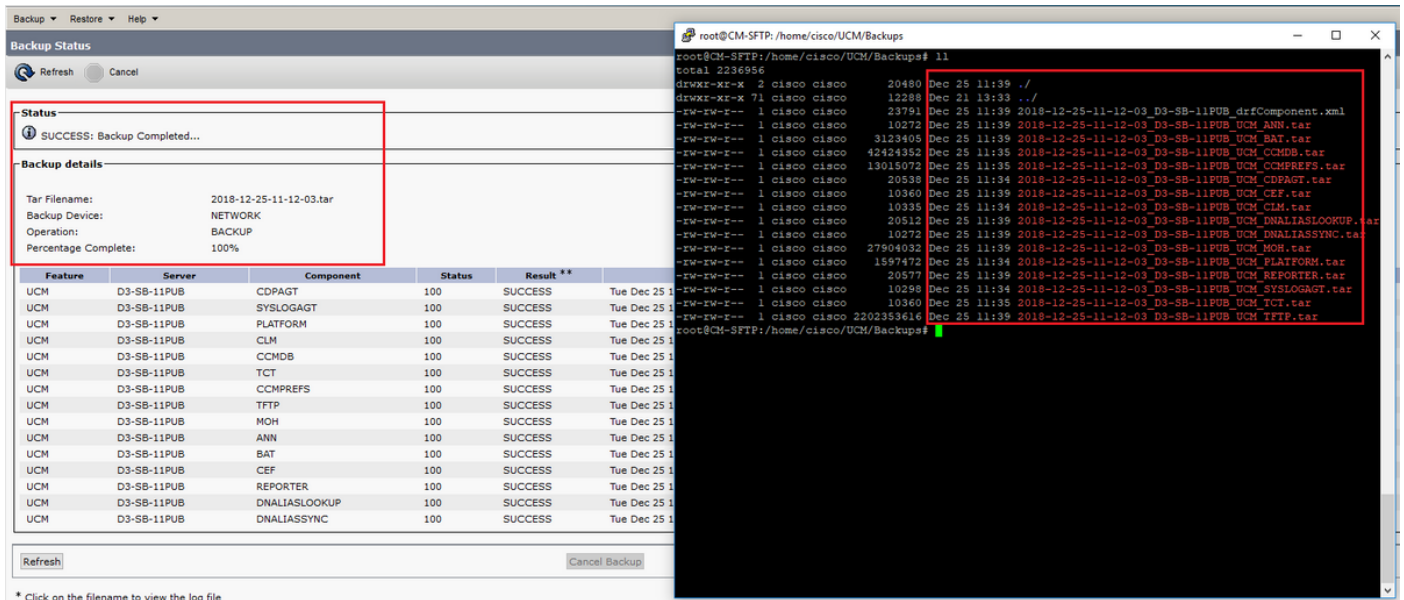
```
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfUtils:closeSFTPConnections: Closing
ChannelSftp...
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfUtils:closeSFTPConnections: Disconnecting
Channel...
2018-12-25 11:16:26,405 DEBUG [TarWorkerThread] - drfUtils:closeSFTPConnections: Closing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

```
+++++
BACKUP operation COMPLETED
+++++
```

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

Verify

In order to verify that the backup was successful, you need to see the status message **SUCCESS: Backup completed** as shown in the image:

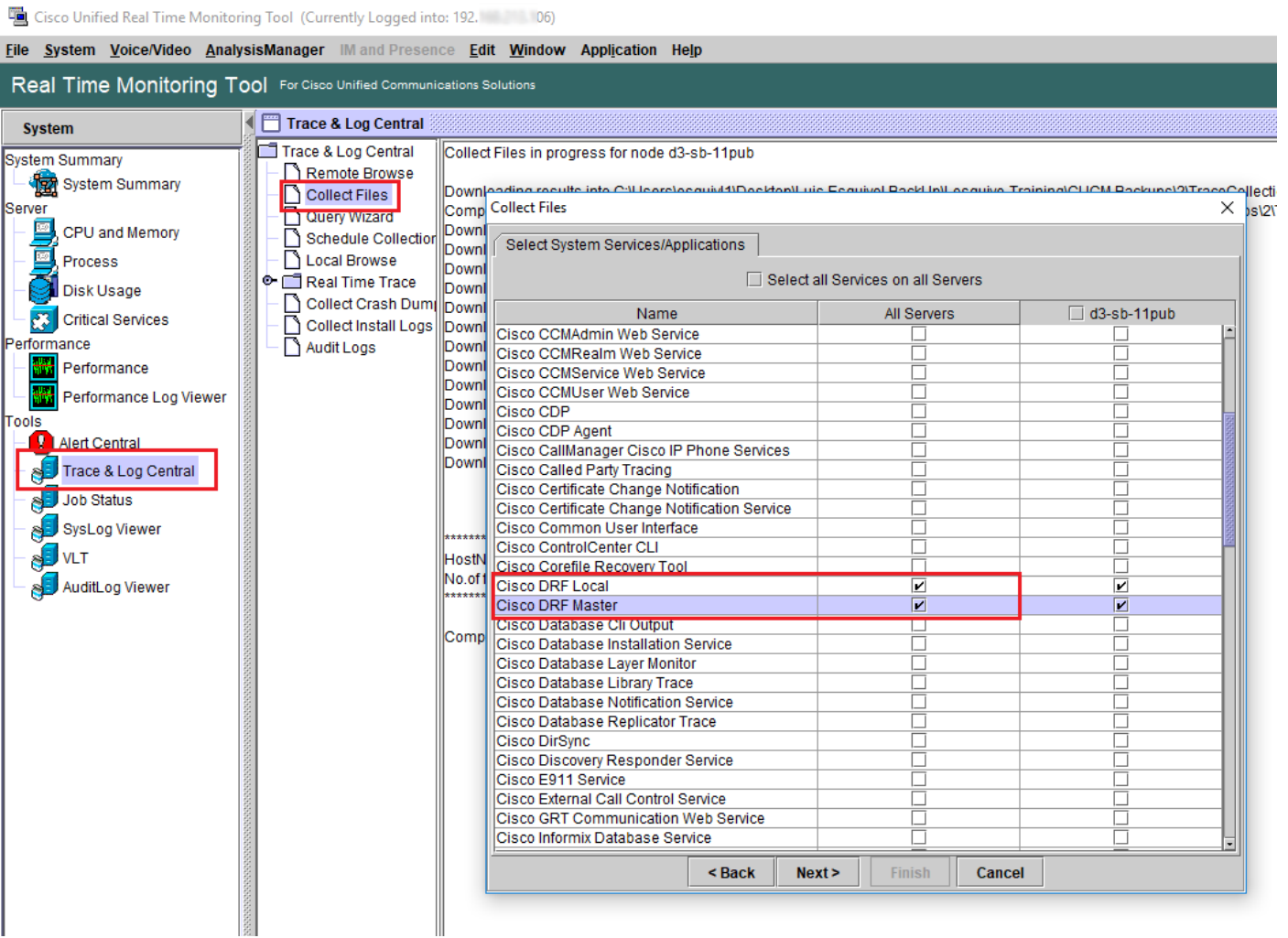


Troubleshoot

In order to troubleshoot Backups in CUCM, you need:

- DRF Local logs
- DRF Master logs

In RTMT, navigate to **Trace and Log Central > Collect Files > Cisco DRF Local & Cisco DRF Master** for all servers as shown in the image:



You can find details in [How to Collect Traces for CUCM 9.x or Later](#)

Access to the remote SFTP is recommended.