请使用头等协作部署作为SFTP服务器

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简介

本文描述如何使用头等协作部署(PCD),安全文件传输协议(SFTP)服务器为了为任务提供远程服务 器选项例如升级、备份与恢复。

<u>先决条件</u>

<u>要求</u>

Cisco建议您有知识:

- Cisco Unified Communications Manager (CUCM)版本11.5(1)或以上
- PCD版本11.6(2)或以上
- (例如Filezilla)也推荐文件传输客户端

使用的组件

- CUCM版本11.5SU6
- PCD版本11.6(2)
- Filezilla

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

灾难恢复系统(DR),可以从Cisco Unified Communications Manager管理被调用,或者从所有即时 消息和在线状态节点,提供全双工数据备份和恢复功能所有服务器的在CUCM集群。灾难恢复系统 允许您执行有规律地被安排的自动或用户调用的数据备份。

灾难恢复系统执行一个集群级别备份,因此意味着收集所有服务器的备份在CUCM集群到中央位置 并且存档备份数据到物理存储设备。

为了对一远程设备的备份数据在网络,您必须有配置的SFTP服务器。Cisco允许您使用所有 SFTP服务器产品,但是PCD是Cisco技术支持中心(TAC)支持的唯一的SFTP。

配置

请使用PCD作为备份信息库

步骤1.打开Filezilla并且登陆到您的有此信息的PCD服务器:

- 主机: 您的PCD server> <IP或主机名
- username : adminsftp
- •密码: <your PCD应用程序password>
- •端口:22

步骤2.选择/backup目录并且打开它。

步骤3.如镜像所显示,在读空目录列表的文件列表的右键单击,和选择创建目录。

| ₩ | R T T 🗱 🕄 🕸 🕄 🕽 | T 🔍 🖉 🖉 | 10 | | | | | |
|--|---|--|---|----------|---------------|------------|----------|---|
| Host: | Username: | Password: | Port: | Quic | kconnect 💌 | | | |
| Status: Status: Status: Status: Status: Local site: | Listing directory /backup Directory listing of "/backup" successful Retrieving directory listing of "/upgrade" Listing directory /upgrade Directory listing of "/upgrade" successful C:\Users\ | Remote site | 2: /backup | | | | | * |
| Filename desktop Public | Quarantine Recovery System Volume Information Users Windows | ▲ □ ↓< | backup bin cop export resh_install icense og estore upgrade | | | | | |
| 2 maucat Default | bal | Filename | Filesize | Filetype | Last modified | Permissio | Owner/Gr | |
| | I~1 | 1. | | | | | | |
| All Use | rs | - + | Download Add files to queue View/Edit Create directory Create directory and ent Create new file Refresh Delete | er it | tory listing | | | |
| < | | > | Rename Copy URL(s) to clipboard | ł | | | | |
| 1 file and 6 | 5 directories. Total size: 174 bytes | Empty di | File permissions | | | | | |
| Server/Lo | cal file | | Directi Remote file | | Size | Priority S | tatus | |

步骤4.给出您的新目录CUCM_BU并且选择好。

Note:由于Linux权限限制,新的目录的创建不是可能的下面根("/")目录,您能创建在任何子目录的一个目录。

第5步:在CUCM,请导航对**灾难恢复新建的系统>备份>备份设备>Add**。

步骤6.输入在镜像显示的值然后选择保存。

- •备份设备设备名称:PCD_SFTP
- 主机名/IP地址: 您的PCD server> <IP或主机名
- 路径名称:/backup/CUCM_BU
- username : adminsftp
- 密码: <your PCD应用程序password>

| Backup 👻 Restore 👻 Help | • | | |
|--|----------------------|-----------------|--|
| Backup Device | | | |
| 🔚 Save 🖕 Back | | | |
| _ Status | | | |
| ③ Status:Ready | | | |
| ⊢ Backup device name | | | |
| Backup device name* PCD_SFTP | | | |
| Select Destination* | | | |
| Network Directory | | | |
| | Host name/IP address | 192.0.2.1 | |
| | Path name | /backup/CUCM_BU | |
| | User name | adminsftp | |
| | Password | ••••• | |
| Number of backups to store on Network Directory 2 \checkmark | | | |
| | | | |
| Save Back | | | |

步骤7.导航**备份>手动备份**,挑选PCD_SFTP作为备份设备, UCM和CDR_CAR作为**选定功能**和选 择**启动备份**。

| Backup - Restore - Help - | | |
|--|---------|-----------|
| Manual Backup | | |
| Start Backup 🕘 Estimate Size 🔛 Select All 🔛 Clear All | | |
| _ Status | | |
| status:Ready | | |
| Select Backup Device | | |
| Device Name* PCD_SFTP ~ | | |
| - Select Features * | | |
| ☑ucm ☑cdr_car | | |
| The following components are registered with Disaster Recovery | System: | |
| Feature | Server | |
| UCM | 125PUB | PLATFORM |
| UCM | 125PUB | SYSLOGAGT |
| UCM | 125PUB | CLM |
| UCM | 125PUB | CDPAGT |
| UCM | 125PUB | BAT |
| UCM | 125PUB | TFTP |
| UCM | 125PUB | CCMPREFS |
| UCM | 125PUB | CCMDB |
| UCM | 125PUB | тст |
| UCM | 125PUB | SLM |
| UCM | 125SUB | PLATFORM |
| UCM | 125SUB | CLM |
| UCM | 125SUB | CDPAGT |
| UCM | 125SUB | SYSLOGAGT |
| UCM | 125SUB | ANN |
| UCM | 125SUB | МОН |
| UCM | 125SUB | тст |
| CDR_CAR | 125PUB | CAR |
| Start Backup Estimate Size Select All Clear All | | |

步骤8。一旦备份完成,如镜像所显示,您能导航对文件传输客户端和验证备份文件。



请使用PCD作为恢复信息库

第1步:在CUCM,请导航到**灾难恢复系统>恢复>恢复向导**,挑选**PCD_SFTP**作为设备并且**其次**选 择。

| Backup - Restore - Help - | | |
|--------------------------------------|--|--|
| Step1 Restore - Choose Backup device | | |
| Next 🙆 Cancel | | |
| Statuc | | |
| | | |
| Status:Ready | | |
| Select Backup Device | | |
| Device Name* PCD_SFTP ~ | | |
| | | |
| Next Cancel | | |
| Indicates required items. | | |

步骤2.如镜像所显示,选择您要恢复从和**其次**选择的备份文件。

| Backup - Restore - Help - |
|--|
| Step2 Restore - Choose the Backup Tar File |
| Back I Next 🙆 Cancel |
| - Status |
| |
| Status:Ready |
| – Select Backup Archive** – |
| |
| Select Backup File* 2020-04-20-17-12-52 ~ |
| |
| Back Next Cancel |
| |
| Indicates required items. |
| |

** Only the archives of the same version, having at least one feature with backup status SUCCESS or WARNING will be listed.

步骤3.挑选UCM和CDR_CAR其次然后选择。

| 🔚 Back 🕂 Select All 🕂 Clear All 📄 Next 🎑 Cancel | | |
|---|--|-----------------------------------|
| | | |
| Status- | | |
| () and () | | |
| Status:Ready | | |
| | | |
| Colort Fosturor* | | |
| Select reatures | | |
| | | |
| ⊡ cdr_car | | |
| M NCW | | |
| Backed up components in TAR: | | |
| | | |
| Feature | Server | |
| CDR_CAR | 125PUB | CAR |
| UCM | 125PUB | PLATFORM |
| UCM | 125PUB | SYSLOGAG |
| UCM | 125PUB | CLM |
| UCM | 125PUB | CDPAGT |
| UCM | 125PUB | BAT |
| UCM | 125PUB | TFTP |
| UCM | 125PUB | CCMPREFS |
| UCM | 125PUB | CCMDB |
| UCM | 125PUB | TCT |
| UCM | 125PUB | SLM |
| UCM | 125SUB | PLATFORM |
| | 125SUB | CLM |
| UCM | | |
| UCM UCM | 125SUB | CDPAGT |
| UCM UCM UCM | 1255UB 1255UB | CDPAGT SYSLOGAGT |
| UCM UCM UCM UCM | 1255UB 1255UB 1255UB | CDPAGT SYSLOGAGT ANN |
| UCM UCM UCM UCM UCM | 1255UB 1255UB 1255UB 1255UB 1255UB | CDPAGT SYSLOGAGT ANN MOH |

Indicates required items.

步骤4.选择您要恢复然后选择**恢复的**节点。

| Backup - Restore - Help - | | | |
|--|--|--|--|
| Step4 Restore - Final Warning for Restore | | | |
| Back Restore 🐼 Cancel | | | |
| | | | |
| Status | | | |
| Status: Ready | | | |
| _ Warning | | | |
| * Feature(s) CDR_CAR,UCM have been selected for restore. Select the servers on which these features need to be restored. Once the selection has been made, restore will overwrite the data on the destination server and all the existing data for the selected feature will be lost. | | | |
| * The following is applicable in case of a cluster setup : If node selected is publisher, whole cluster database will be restored. This may take upto several hours based on number of nodes and size of database being restored. In case of only the publisher restore, please restart the entire cluster after the successful restore of the publisher. | | | |
| * The following is applicable in case of a cluster setup : If you are attempting to restore the entire cluster on a freshly installed publisher, then click on the one-step restore button. This allows the publisher to become cluster aware. If the publisher becomes cluster aware then select the servers and click on Restore button which will start the restore of cluster in one go. In case the publisher fails to become cluster aware then follow the normal two-step restore process where the publisher is to be restored first. The subsequent nodes can then be selected only after the completion of publisher restore. For further details please refer to the Disaster Recovery System Administration Guide. | | | |
| | | | |
| Cone-Step Restore | | | |
| One-Step Restore Perform a one-step restore of entire cluster. | | | |
| | | | |
| File integrity check | | | |
| Perform file integrity check using SHA1 Message Digest | | | |
| - Select the Servers to be restored for each featuret | | | |
| | | | |
| • CDR_CAR | | | |
| ✓ 125PUB | | | |
| | | | |
| · UCM □ 125PUB □ 125SUB | | | |
| | | | |
| ⊂ Select the server from which database data need to be restored | | | |
| * This feature can be used if the Publisher database is in inconsistent state and needs to be restored from duplicate database in subscriber. If a subscriber is selected from the following list, publisher database will be restored from selected subscriber. Also, this restore process will not restore database on any of the subscribers even if the subscribers checkbox is checked above. Please ensure selected subscriber is up and connected to the duster before restore process starts. | | | |
| Select server name | | | |
| | | | |
| Back Restore Cancel | | | |

请使用PCD作为远程文件系统升级

步骤1.打开Filezilla并且登陆到您的有此信息的PCD服务器。

- 主机: 您的PCD server> <IP或主机名
- username : adminsftp
- •密码:<your PCD应用程序password>
- •端口:22

步骤2.导航对/upgrade目录并且打开它。

步骤3.如镜像所显示,复制升级文件从您的计算机到/upgrade目录。



第4步:在CUCM,请导航统一OS Administration >软件升级>安装/升级。

步骤5.输入在镜像显示的值**其次**然后选择。

- 来源:远程文件系统
- 目录:/upgrade
- •服务器:您的PCD server> <IP或主机名
- username : adminsftp
- •用户密码:<your PCD应用程序password>
- 传输协议:SFTP

| Show - Settings - | Security Security | | | |
|---------------------------------|---|--|--|--|
| Software Installat | Software Installation/Upgrade | | | |
| 🙆 Cancel 📫 N | Cancel 📄 Next | | | |
| _ | | | | |
| Status | | | | |
| I Status: Ready | | | | |
| - Software Location | | | | |
| Source* | Remote Filesystem \checkmark | | | |
| Directory* | /upgrade | | | |
| Server* | 192.0.2.1 | | | |
| User Name* | adminsftp | | | |
| User Password* | ••••• | | | |
| Transfer Protocol* | SFTP ~ | | | |
| SMTP Server | | | | |
| Email Destination | | | | |
| | | | | |
| Cancel Next | | | | |
| (i) *- indicates required item. | | | | |

步骤6.选择您要应用的升级文件,并且**其次**选择。

| Show ▼ Settings ▼ Security ▼ Software Upgrades ▼ Services ▼ Help ▼ | | | |
|--|--|--|--|
| Software Installation/Upgrade | | | |
| Cancel Next | | | |
| ⊂ Status | | | |
| i Status: Ready | | | |
| ⊂ Software Location | | | |
| Options/Upgrades* UCSInstall_UCOS_11.5.1.17900-52.sgn.iso ~ | | | |
| Cancel Next | | | |
| (i) *- indicates required item. | | | |
| | | | |

步骤7.继续进行升级如所需求。

<u>验证</u>

验证程序实际上作为配置过程的部分。

<u>故障排除</u>

目前没有针对此配置的故障排除信息。