# 從訂閱伺服器重建CUCM發佈伺服器

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# 簡介

本文檔介紹如何在不進行備份或根訪問的情況下,從訂戶資料庫中還原Cisco Unified Communications Manager(CUCM)發佈方節點。

## 背景

在CUCM的早期版本中,發佈者節點被認為是結構化查詢語言(SQL)資料庫的唯一權威源。

因此,如果發佈伺服器節點由於硬體故障或檔案系統損壞而丟失,恢復它的唯一方法是重新安裝資料庫並從災難恢復系統(DRS)備份中恢複資料庫。

某些客戶沒有保留正確的備份,或者備份已過期,因此唯一的選擇是重建並重新配置發佈伺服器節 點。

在CUCM版本8.6(1)中,引入了一個新功能以便從使用者資料庫恢復發佈者資料庫。

本文檔介紹如何利用此功能從訂閱伺服器成功還原發佈伺服器DB。

思科強烈建議您保留整個群集的完整災難恢復框架(DRF)備份。

由於此過程僅恢復CUCM DB配置,因此不會恢復其他資料,如證書、保留音樂(MoH)和TFTP檔案 。為了避免這些問題,請保持完整群集DRF備份。

💊 注意:思科建議您開始之前,先檢視並熟悉本文檔中介紹的整個流程。

### 收集群集資料

在重新安裝發佈器之前,請務必收集有關上一個發佈器的相關詳細資訊。這些詳細資訊必須與原始 發佈伺服器安裝相匹配:

- IP 位址
- 主機名
- 域名
- 安全密碼
- 精確CUCM版本
- 已安裝Cisco Options Package(COP)檔案

若要檢索清單中的前三個專案,請在當前訂閱伺服器節點CLI上輸入show network cluster命令:

#### <#root>

admin:

show network cluster

172.18.172.213 cucm911ccnasub1 Subscriber authenticated

172.18.172.212 cucm911ccnapub

Publisher not authenticated - INITIATOR since Tue Dec 3 12:43:24 2013 172.18.172.214 cucm911ccnasub2 Subscriber authenticated using TCP since Sun Dec 1 17:14:58 2013

在這種情況下,IP地址為172.18.172.212,主機名為cucm911ccnapub,且沒有為發佈伺服器配置 域名。

從站點文檔中檢索安全密碼(清單中的第四項)。

如果您不確定安全密碼,請盡最大努力猜測,然後根據CUCM版本嘗試根據需要驗證和更正該密碼 。

如果安全密碼不正確,則需要群集中斷才能糾正這種情況。

為了檢索準確的CUCM版本和已安裝的COP檔案(清單中的最後兩項),請從show version active命令收集系統輸出:

#### <#root>

admin:

show version active

Active Master Version:

9.1.2.10000-28

Active Version Installed Software Options:

No Installed Software Options Found.

在本例中,版本9.1.2.10000-28安裝時沒有附加的COP檔案。

◆ 註:可能以前在發佈伺服器上安裝了某些COP檔案,但在訂閱伺服器上沒有安裝,反之亦然 。僅將此輸出用作指南。

### 停止所有訂閱伺服器上的複製

安裝發佈伺服器時,複製功能無法設定和刪除當前訂閱伺服器DB至關重要。若要防止發生這種情況 ,請在所有訂閱伺服器上輸入utils複製停止命令:

<#root>

admin:

utils dbreplication stop

This command can delete the marker file(s) so that automatic replication setup is stopped It can also stop any replication setup currently executing

Deleted the marker file, auto replication setup is stopped

Service Manager is running Commanded Out of Service A Cisco DB Replicator[NOTRUNNING] Service Manager is running A Cisco DB Replicator[STARTED]

Completed replication process cleanup

Please run the command 'utils dbreplication runtimestate' and make sure all nodes are RPC reachable before a replication reset is executed

### 安裝CUCM Publisher

收集相應版本的可啟動映像,並在升級到相應版本後執行安裝。

注意:大多數CUCM工程特別計畫(ES)版本已經可以啟動。

安裝發佈伺服器,並為前面提到的IP地址、主機名、域名和安全密碼指定正確的值。

### 更新發佈伺服器上的進程節點值

注意:發佈伺服器必須至少知道一個訂閱伺服器,才能從該訂閱伺服器還原資料庫。思科建議 您新增所有訂戶。

要檢索節點清單,請在當前訂閱伺服器的CLI上輸入run sql select name,description,nodeid from processnode命令。

名稱值可以是主機名、IP地址或完全限定域名(FQDN)。

如果運行CUCM版本10.5(2)或更高版本,則必須先在發佈器CLI上運行utils disaster\_recovery prepare restore pub\_from\_sub命令,然後才能繼續將節點新增到System > Server:

#### admin:utils disaster\_recovery prepare restore pub\_from\_sub admin:

▲ 警告:許多使用CUCM 10.5(2)版或更高版本的人跳過命令utils disaster\_recovery prepare restore pub\_from\_sub;但是這是一個關鍵命令。請勿跳過本檔案中的任何步驟。

收到節點清單後,導航到System > Server,然後將除EnterpriseWideData之外的所有名稱值新增到 Publisher Server Unified CM Administration頁。

名稱值必須對應於System > Server選單上的Host Name/IP Address欄位。

<#root>

admin:

run sql select name, description, nodeid from processnode

n	ame	description	nodeid
E	nterpriseWideData		====== 1
1	72.18.172.212		
	CUCM901CCNAPub	2	
1	72.18.172.213		
	CUCM901CCNASub	<b>b1</b> 3	
1	72.18.172.214		
	CUCM901CCNASub	02 4	

注意:預設安裝會將發佈伺服器主機名新增到processnode表中。如果name列列出發佈伺服器的IP地址,則可以將其更改為IP地址。在這種情況下,不要刪除發佈者條目,而是開啟和修改當前的主機名/IP地址欄位。

Server Configuration	Server Configuration
🔚 Sava 🗶 Delete 🕂 Add New	🔜 Sarve 🗶 Delete 🕂 Acid New
- Status	Status
Di Status: Ready	(i) Stetus: Reedy
Server Information	
Database Replication Publisher	Database Replication Publisher
Host Name/JP Address* cucm911ccnaput	Host Name/IP Address* 172.18.172.212
CPv6 Name	IPv6 Name
MAC Address	MAC Address
Description	Poterialian
Desc pain	
-Location Bandwidth Management Information	
LBM Hub Group < None > • View Details	LBM Hub Group < None > View Details
Save Delete Add New	Save Delete Add New
admin:run sql select name,description,nodeid from process name description nodeid	NOR Servers (1 - 3 of 3)
	Find Comment where Heat Name (10 Address - Laning with
EnterpriseVideData 1	Find Servers where Host Name/IP Address + Degins with +
172.18.172.212 CUCM901CCNAPub 2	Host Na
172.18.172.213 CUCM901CCNASub1 3	172.18.172.212
172.18.172.214	
	172.18.172.213
	172.18.172.214
	Add New

# 重新啟動發佈伺服器節點

要在processnode更改完成後重新啟動發佈伺服器,請輸入utils system restart命令:

admin:

utils system restart

Do you really want to restart ? Enter (yes/no)? yes

Appliance is being Restarted ... Warning: Restart could take up to 5 minutes.

Shutting down Service Manager. Please wait... \Service Manager shutting down services... Please Wait

Broadcast message from root (Tue Dec 3 14:29:09 2013):

The system is going down for reboot NOW! Waiting .

Operation succeeded

### 驗證群集身份驗證

發佈伺服器重新啟動後,如果更改正確且安全密碼正確,則群集必須處於已驗證狀態。若要驗證這 一點,請輸入show network cluster 指令:

<#root>

admin:

show network cluster

172.18.172.212 cucm911ccnapub Publisher authenticated 172.18.172.213 cucm911ccnasub1

Subscriber authenticated using TCP since Tue Dec 3 14:24:20 2013

172.18.172.214 cucm911ccnasub2

Subscriber authenticated using TCP since Tue Dec 3 14:25:09 2013

✤ 注意:如果訂閱伺服器未顯示為authenticated,請參閱本文檔的故障排除部分,以便在繼續之前解決此問題。

### 執行新備份

如果沒有可用的先前備份,請在DRS頁面上執行群集備份。

S 註:雖然可以使用訂戶DB進行還原,但還原非資料庫元件仍需要備份。

如果沒有可用的備份,則執行一個新備份;如果備份已存在,則可以跳過此部分。

#### 新增備份裝置

使用導航選單導航到災難恢復系統,並新增備份裝置。

– Status –			
③ Status:Ready			
–Backup device name–			
<b>-</b>			
Backup device name*			
– Select Destination* –––			
🔿 Tape Device			
	Device Name	Not Selected 👻	
Network Directory			
- ······	Host name/IP address		]
	Path name		
	User name		
	Password		
Number of backups to stor	re on Network Directory		
Save Back			

#### 啟動手動備份

新增備份裝置後,啟動手動備份。

♦ 注意:發佈伺服器節點已註冊CCMDB元件非常重要。

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COR_CAR         CUCR911CCNAPUB         CAR         100         SUCCESS         Tue Dec 03 14:44:34 EST 2013         2013-12-03-14-44-30 bit cum911cenapub official car carbon           UCM         CUCR911CCNAPUB         CDPAGT         100         SUCCESS         Tue Dec 03 14:46:08 EST 2013         2013-12-03-14-44-30 bit cum911cenapub ucm releaction           UCM         CUCR911CCNAPUB         SYSLOGAGT         100         SUCCESS         Tue Dec 03 14:46:08 EST 2013         2013-12-03-14-44-30 bit cum911cenapub ucm releaction           UCM         CUCR911CCNAPUB         CCMPREFS         100         SUCCESS         Tue Dec 03 14:46:08 EST 2013         2013-12-03-14-44-30 bit cum911cenapub ucm restenants           UCM         CUCR911CCNAPUB         CCMPREFS         100         SUCCESS         Tue Dec 03 14:46:08 EST 2013         2013-12-03-14-44-30 bit cum911cenapub ucm restenants           UCM         CUCR911CCNAPUB         PLATFORM         100         SUCCESS         Tue Dec 03 14:46:10 EST 2013         2013-12-03-14-44-30 bit cum911cenapub ucm restenants           UCM         CUCR911CCNAPUB         CLM         100         SUCCESS         Tue Dec 03 14:46:10 EST 2013         2013-12-03-14-44-30 bit cum911cenapub ucm restenants           UCM         CUCR911CCNAPUB         CLM         100         SUCCESS         Tue Dec 03 14:46:10 EST 2013         2013-12-03-14-44-30 bit cum911cenapub u	ELM	CUCM911CCNAPUB	ELM-SERVER	100	SUCCESS	Tue Dec 03 14:44:32 EST 2013	2019-12-09-14-44-30 b cucm911cenapub elm elm-serverlog				
UCM         CUCM911CCNAPUB         CDPAGT         100         SUCCESS         Tue Dee 03 14:46:08 EST 2013         2015:12:03:14:44:30 is cum911cenapub uom edpact.los           UCM         CUCR911CCNAPUB         SYSLOGAGT         100         SUCCESS         Tue Dee 03 14:46:08 EST 2013         2013:12:03:14:44:30 is cum911cenapub uom explorant           UCM         CUCR911CCNAPUB         CCMPREFS         100         SUCCESS         Tue Dee 03 14:46:09 EST 2013         2013:12:03:14:44:20 is cum911cenapub uom explorant           UCM         CUCR911CCNAPUB         PLATFORM         100         SUCCESS         Tue Dee 03 14:46:10 EST 2013         2013:12:03:14:44:20 is cum911cenapub uom explorant           UCM         CUCR911CCNAPUB         PLATFORM         100         SUCCESS         Tue Dee 03 14:46:10 EST 2013         2013:12:03:14:44:20 is cum911cenapub uom explorant           UCM         CUCR911CCNAPUB         CLM         100         SUCCESS         Tue Dee 03 14:46:10 EST 2013         2013:12:03:14:44:30 is cum911cenapub uom explorant           UCM         CUCR911CCNAPUB         CCM         100         SUCCESS         Tue Dee 03 14:46:10 EST 2013         2013:12:03:14:44:30 is cum911cenapub uom explorant           UCM         CUCR911CCNAPUB         TCT         100         SUCCESS         Tue Dee 03 14:46:27 EST 2013         2013:12:03:14:44:30 is cum911cenasub1 uom explorant	CDR_CAR	CUCM911CCNAPUB	CAR	100	SUCCESS	Tue Dec 03 14:44:34 EST 2013	2013-12-03-14-44-30 b cucm911conapub odr car carlog				
UCM         CUCK911CCNAPUB         SYSLOGAST         100         SUCCESS         Tue Dec 03 14:46:08 EST 2013         2013-12-03-14-44-30 h//// accm911cenapub////////////////////////////////////	UCM	CUCM911CCNAPUB	CDPAGT	100	SUCCESS	Tue Dec 03 14:46:08 EST 2013	2019-12-09-14-44-30 b cucm011cenapub ucm edpact.log				
UCM         CUCM911CCNAPUB         CCMPREFS         100         SUCCESS         Tue Dee 03 14:46:09 EST 2013         2013:12:03:14:44:30 is cum911cenapub uom cemprefs.           UCM         CUCR911CCNAPUB         PLATFORM         100         SUCCESS         Tue Dee 03 14:46:10 EST 2013         2013:12:03:14:44:30 is cum911cenapub uom cemprefs.           UCM         CUCR911CCNAPUB         CLM         100         SUCCESS         Tue Dee 03 14:46:10 EST 2013         2013:12:03:14:44:30 is cum911cenapub uom cemprefs.           UCM         CUCR911CCNAPUB         CLM         100         SUCCESS         Tue Dee 03 14:46:10 EST 2013         2013:12:03:14:44:30 is cum911cenapub uom cemprefs.           UCM         CUCR911CCNAPUB         CCM         100         SUCCESS         Tue Dee 03 14:46:10 EST 2013         2013:12:03:14:44:30 is cum911cenapub uom cemprefs.           UCM         CUCR911CCNAPUB         TCT         100         SUCCESS         Tue Dee 03 14:46:27 EST 2013         2013:12:03:14:44:30 is cum911cenapub uom tett.log           UCM         CUCR911CCNASUB1         PLATFORM         100         SUCCESS         Tue Dee 03 14:46:27 EST 2013         2013:12:03:14:44:30 is cum911cenasub1 uom tett.log           UCM         CUCR911CCNASUB1         PLATFORM         100         SUCCESS         Tue Dee 03 14:46:31 EST 2013         2013:12:03:14:44:30 is cum911cenasub1 uom cem.log	UCM	CUCM911CCNAPUB	SYSLOGAGT	100	SUCCESS	Tue Dec 03 14:46:08 EST 2013	2013-12-03-14-44-30 b cucm911conapub ucm syslecant.log				
UCM         CUCK911CCNAPUB         PLATFORM         100         SUCCESS         Tue Dec 03 14:46:10 EST 2013         2013-12-03-14-44-30 bit cumP11cmapublium platform.           UCM         CUCK911CCNAPUB         CLM         100         SUCCESS         Tue Dec 03 14:46:10 EST 2013         2013-12-03-14-44-30 bit cumP11cmapublium platform.           UCM         CUCK911CCNAPUB         CLM         100         SUCCESS         Tue Dec 03 14:46:10 EST 2013         2013-12-03-14-44-30 bit cumP11cmapublium platform.           UCM         CUCK911CCNAPUB         CCT         100         SUCCESS         Tue Dec 03 14:46:27 EST 2013         2013-12-03-14-44-30 bit cumP11cmapublium cum blatform.           UCM         CUCK911CCNAPUB         TCT         100         SUCCESS         Tue Dec 03 14:46:27 EST 2013         2013-12-03-14-44-30 bit cumP11cmapublium cum blatform.           UCM         CUCK911CCNASUB1         PLATFORM         100         SUCCESS         Tue Dec 03 14:46:27 EST 2013         2013-12-03-14-44-30 bit cumP11cmasub1 upm blatform.           UCM         CUCM911CCNASUB1         CLM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 bit cumP11cmasub1 upm clm.           UCM         CUCM911CCNASUB2         CLM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 bit cumP11cmasub1 upm clm. <t< td=""><td>UCM</td><td>CUCM911CCNAPUB</td><td>COMPREFS</td><td>100</td><td>SUCCESS</td><td>Tue Dec 03 14:46:09 EST 2013</td><td>2019-12-09-14-44-30 b cuem911cenapub ucm comprefs.log</td></t<>	UCM	CUCM911CCNAPUB	COMPREFS	100	SUCCESS	Tue Dec 03 14:46:09 EST 2013	2019-12-09-14-44-30 b cuem911cenapub ucm comprefs.log				
UCM         CUCK911CCNAPUB         CLM         100         SUCCESS         Tue Dee 03 14:46:10 EST 2013         2015-12-03-14-44-30 is cum911cenapub ucm ism.log           UCM         CUCK911CCNAPUB         CCMDB         100         SUCCESS         Tue Dee 03 14:46:10 EST 2013         2015-12-03-14-44-30 is cum911cenapub ucm ism.log           UCM         CUCK911CCNAPUB         TCT         100         SUCCESS         Tue Dee 03 14:46:27 EST 2013         2015-12-03-14-44-30 is cum911cenapub ucm ism.log           UCM         CUCK911CCNASUB1         PLATFORM         100         SUCCESS         Tue Dee 03 14:46:27 EST 2013         2013-12-03-14-44-30 is cum911cenapub ucm istr.log           UCM         CUCK911CCNASUB1         PLATFORM         100         SUCCESS         Tue Dee 03 14:46:27 EST 2013         2013-12-03-14-44-30 is cum911cenapub ucm istr.log           UCM         CUCK911CCNASUB1         CLM         100         SUCCESS         Tue Dee 03 14:46:31 EST 2013         2013-12-03-14-44-30 is cum911cenasub1 ucm istr.log           UCM         CUCK911CCNASUB2         PLATFORM         100         SUCCESS         Tue Dee 03 14:46:31 EST 2013         2013-12-03-14-44-30 is cum911cenasub1 ucm istr.log           UCM         CUCK911CCNASUB2         PLATFORM         100         SUCCESS         Tue Dee 03 14:46:31 EST 2013         2013-12-03-14-44-30 is cum911cenasub2 ucm istr.log	UCM	CUCM911CCNAPUB	PLATFORM	100	SUCCESS	Tue Dec 03 14:46:10 EST 2013	2013-12-03-14-44-30 b cucm911conapub ucm platform.log				
UCM         CUCR9110CNAPUB         CCMDB         100         SUCCESS         Tue Dec 03 14:46:10 EST 2013         2013-12-03-14-44-30 h. cucm911cenapub ucm. condblor           UCM         CUCR911CCNAPUB         TCT         100         SUCCESS         Tue Dec 03 14:46:27 EST 2013         2013-12-03-14-44-30 h. cucm911cenapub ucm. tet.log           UCM         CUCR911CCNASUB1         PLATFORM         100         SUCCESS         Tue Dec 03 14:46:27 EST 2013         2013-12-03-14-44-30 h. cucm911cenapub ucm. tet.log           UCM         CUCR911CCNASUB1         PLATFORM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 h. cucm911cenasub1 ucm. elm.log           UCM         CUCR911CCNASUB1         CLM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 h. cucm911cenasub1 ucm. elm.log           UCM         CUCR911CCNASUB2         PLATFORM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 h. cucm911cenasub2 ucm. pleform.           UCM         CUCR911CCNASUB2         CLM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 h. cucm911cenasub2 ucm. pleform.           UCM         CUCR911CCNASUB2         CLM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 h. cucm911cenasub2 ucm. pleform. <td>UCM</td> <td>CUCM911CCNAPUB</td> <td>CLM</td> <td>100</td> <td>SUCCESS</td> <td>Tue Dec 03 14:46:10 EST 2013</td> <td>2019-12-03-14-44-30 b cuem911cenapub ucm dm.log</td>	UCM	CUCM911CCNAPUB	CLM	100	SUCCESS	Tue Dec 03 14:46:10 EST 2013	2019-12-03-14-44-30 b cuem911cenapub ucm dm.log				
UCM         CUCR911CCNAPUB         TCT         100         SUCCESS         Tue Dec 03 14:46:27 EST 2013         2015-12-03-14-44-30 is cum911ccnapub ucm tot.log           UCM         CUCR911CCNASUB1         PLATFORM         100         SUCCESS         Tue Dec 03 14:46:27 EST 2013         2013-12-03-14-44-30 is cum911ccnasub1 ucm tot.log           UCM         CUCR911CCNASUB1         CLM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 is cum911ccnasub1 ucm clm.log           UCM         CUCR911CCNASUB2         PLATFORM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 is cum911ccnasub1 ucm clm.log           UCM         CUCR911CCNASUB2         PLATFORM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 is cum911ccnasub2 ucm clm.log           UCM         CUCR911CCNASUB2         CLM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 is cum911ccnasub2 ucm clm.log           UCM         CUCM911CCNASUB2         CLM         100         SUCCESS         Tue Dec 03 14:46:34 EST 2013         2013-12-03-14-44-30 is cum911ccnasub2 ucm clm.log	UCM	CUCM911CCNAPUB	CCMDB	100	SUCCESS	Tue Dec 03 14:46:10 EST 2013	2013-12-03-14-44-30 b cucm911conapub ucm comdb.log				
UCM         CUCR911CCNASUB1         PLATFORM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 h         cucm911ccnasub1 uom platform           UCM         CUCM911CCNASUB1         CLM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 h         cucm911ccnasub1 uom platform           UCM         CUCM911CCNASUB2         PLATFORM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 h         cucm911ccnasub1 uom platform           UCM         CUCM911CCNASUB2         PLATFORM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 h         cucm911ccnasub2 uom platform           UCM         CUCM911CCNASUB2         CLM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 h         cucm911ccnasub2 uom platform	UCM	CUCM911CCNAPUB	тат	100	SUCCESS	Tue Dec 03 14:46:27 EST 2013	2019-12-09-14-44-30 b evemplicenapub vem tet.log				
UCM         CUCM911CCNASUB1         CLM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 b         cucm911ccnasub1 um         clm.log           UCM         CUCM911CCNASUB2         PLATFORM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 b         cucm911ccnasub2 um clm.log           UCM         CUCM911CCNASUB2         CLM         100         SUCCESS         Tue Dec 03 14:46:34 EST 2013         2013-12-03-14-44-30 b         cucm911ccnasub2 um clm.log	UCM	CUCM911CCNASUB1	PLATFORM	100	SUCCESS	Tue Dec 03 14:46:27 EST 2013	2013-12-03-14-44-30 b cucm911ccnasub1 ucm platform.log				
UCM         CUCR911CCNASU62         PLATFORM         100         SUCCESS         Tue Dec 03 14:46:31 EST 2013         2013-12-03-14-44-30 h         cucm911ccnasub2 uom platform           UCM         CUCM911CCNASU62         CLM         100         SUCCESS         Tue Dec 03 14:46:34 EST 2013         2013-12-03-14-44-30 h         cucm911ccnasub2 uom platform	UCM	CUCM911CCNASUB1	CLM	100	SUCCESS	Tue Dec 03 14:46:31 EST 2013	2013-12-03-14-44-30 b cucm911cenasub1 ucm clm.log				
UCM CUCM911CCNASUB2 CLM 100 SUCCESS Tue Dec 03 14:46:34 EST 2013 2013-12-03-14-44-30 b cucm911ccnasub2 ucm clm.log	UCM	CUCH911CCNASUB2	PLATFORM	100	SUCCESS	Tue Dec 03 14:46:31 EST 2013	2013-12-03-14-44-30 b cucm911ccnasub2 upm platform.log				
	UCM	CUCM911CCNASUB2	CLM	100	SUCCESS	Tue Dec 03 14:46:34 EST 2013	2013-12-03-14-44-30 b cucm911cenasub2 ucm clm.log				

Refresh

Cancel Backup

# 從訂閱伺服器DB恢復發佈伺服器

在「災難恢復系統」頁上,導航到還原>還原嚮導。

如果當前備份可用,而您跳過了上一部分,請選中「選擇功能」部分中的所有功能覈取方塊:企業 許可證管理器(ELM)(如果可用)、CDR\_CAR和Unified Communications Manager(UCM)。

如果您使用在上一部分中執行的備份,請只選中UCM覈取方塊:

Backup 👻 Restore 👻 Help 💌								
itep3 Restore - Select the type of Restore								
🛑 Back 🏢 Select All 🎹 Clear All 📫 Next 🙆 Cancel								
- Status								
D Status: Ready								
- Select Features*								
E ELM								
COR_CAR								
Rackad un communitation 7.4	.D							
■ UCM - Backed up components in TA Feature	R:Server	Component						
UCM     Backed up components in TA     Feature     ELM	R: Server CUCM911CCNAPUB	Component ELM-AGENT						
UCM     Backed up components in TA     Feature     EUM     EUM	R: Server CUCM911CCNAPUB CUCM911CCNAPUB	Component ELM-AGENT ELM-SERVER						
EUM CDR_CAR	R:	Component ELM-AGENT ELM-SERVER CAR						
EUM ELM CDR_CAR UCM	R: CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB	Component ELM-AGENT ELM-SERVER CAR CDPAGT						
ELM CDR_CAR UCM	R: CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB	Component ELM-AGENT ELM-SERVER CAR CDPAGT SYSLOGAGT						
UCM  Backed up components in TA  Feature  ELM  CDR_CAR  UCM  UCM  UCM  UCM	R: CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB	Component ELM-AGENT ELM-SERVER CAR CDPAGT SYSLOGAGT CCMPREPS						
UCM Backed up components in TA Feature ELM CDR_CAR UCM UCM UCM	R: CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB	Component ELM-AGENT ELM-SERVER CAR CDPAGT SYSLOGAGT CCMPREPS PLATFORM						
UCM Backed up components in TA Feature ELM ELM CDR_CAR UCM	R: CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB	Component ELM-AGENT ELM-SERVER CAR CDPAGT SYSLOGAGT CCMPREPS PLATFORM CLM						
UCM  Backed up components in TA  Feature  ELM  CDR_CAR  UCM  UCM  UCM  UCM  UCM  UCM  UCM  UC	R: CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB	Component ELM-AGENT ELM-SERVER CAR CDPAGT CDPAGT SYSLOGAGT CCMPREFS PLATFORM CLM CCMD8						
UCM  Backed up components in TA  Feature  ELM  CDR_CAR  UCM  UCM  UCM  UCM  UCM  UCM  UCM  UC	R: CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB	Component ELM-AGENT ELM-SERVER CAR CDPAGT CDPAGT SYSLOGAGT CCMFREFS PLATFORM CLM CCMDB TCT						
UCM Backed up components in TA Feature ELM CDR_CAR UCM UCM UCM UCM UCM UCM UCM UCM	R: CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB	Component ELM-AGENT ELM-SERVER CAR CDPAST SYSLOGAGT CCMPREFS PLATFORM CLM CCMDB TCT PLATFORM						
UCM  Backed up components in TA  Feature  ELM  CDR_CAR  UCM  UCM  UCM  UCM  UCM  UCM  UCM  UC	R: CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB	Component ELM-AGENT ELM-SERVER CAR CDPAGT SYSLOGAGT CCMPREFS PLATFORM CLM CCMDB TCT PLATFORM CLM						
UCM Backed up components in TA Feature ELM ELM CDR_CAR UCM UCM UCM UCM UCM UCM UCM UCM	R: CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB CUCM911CCNAPUB	Component ELM-AGENT ELM-SERVER CAR CDPAGT SYSLOGAGT CCMPREFS PLATFORM CLM CLM PLATFORM CLM PLATFORM						

按「Next」(下一步)。選中publisher node覈取方塊(CUCM911CCNAPUB),並選擇從中進行恢 復的使用者DB。然後,按一下Restore。

Step4 Restore - Final Warning for Restore
🖕 Back 🔘 Restore 🙆 Cancel
- Status
I Status: Ready
<ul> <li>* Feature(s) UCM have been selected for restore. Select the servers on which these features need to be restored. Once the selection has been maserver and all the existing data for the selected feature will be lost.</li> </ul>
* 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 : 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 clic publisher to become cluster aware. If the publisher becomes cluster aware then select the servers and click on Restore button which will start the become cluster aware then follow the normal two-step restore process where the publisher is to be restored first. The subsequent nodes can restore. For further details please refer to the Disaster Recovery System Administration Guide.
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 feature*
CUCM911CCNAPUB     CUCM911CCNASUB1     CUCM911CCNASUB2
Calastilla semina fasas mbiab database data ana da ba matana d
<ul> <li>* 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 su database will be restored from selected subscriber. Also, this restore process will not restore database on any of the subscribers ever please ensure selected subscriber is up and connected to the cluster before restore process starts.</li> </ul>
Select server name CUCM911CCNASUB1 -
Back Restore Cancel

### 還原狀態

當恢復到達CCMDB元件時,「狀態」文本必須顯示為從訂閱伺服器備份還原發佈伺服器:

- Status											
Restoring server (CUCMRLICCNAPUS), placese wait											
- Restore s	letails										
Tar filon	anne:	2013-12-	03-14-44-30.tar								
Backup D	ervice:	NETWORK	ĸ								
Operation	12	RESTORE	:								
Percentar	ge Complete:	78%									
Frankriss	F	F	Photo:	n	Start Barrow	ter Min 2					
resture	server	Lomponent	228475	roundre	vert ime	Log TH					
пси	CUCHPUICONAPUS	CDRAGT	100	SUCCESS	Tue Dec 03 15:29:53 CST 2013	2012-12-02-12-29-12 r cusm911compub user operation					
LCN	CUCHPIICCNAPUS	SYSLOGAGT	100	SUCCESS	Tue Dec 12 15:32:05 EST 2013	2012-12-02-12-25-42 r curm@llcmopub_urm_seducarp.log					
цем	CUCH011CCNAPUS	COMPRESS	100	SUCCESS	Tue Dec 09 15:32:06 EST 2013	2012-12-02-15-20-49 + coembilizenteab ann compreficiag					
цем	CUCH9110CNAPU5	PLATFORM	100	BUCCESS	Tue Dec 09 15:82:07 EST 2018	2013-12-03-15-23-45 / cuemBilicenscub upm alptform.log					
LCM	CUCM9110CNA905	CLM	100	BUCCESS	Tue Dec 08 15:32:09 EST 2013	2013-12-03-19-29-45 / outm911tensoub_utm_dm.ltg					
цем	COCH9110CNA905	COMDE	50 - 12/03/13 15:41:57 - Restoring Publisher from Subscriber Datkup	Active	Tue Dec 03 15:32:10 EST 2013						
нси	CUCHPLICONAPUS	TET	n								
Refresh											

# 對發佈伺服器資料庫運行健全性檢查

在重新啟動並設定複製之前,最好檢驗恢復是否成功,以及發佈伺服器資料庫是否包含所需資訊。 繼續之前,請確保這些查詢在發佈伺服器和訂閱伺服器節點上返回相同的值:

- 從裝置運行sql select count(\*)
- 從終端使用者運行sql select count(\*)

### 重新啟動群集

恢復完成後,在每個節點上輸入utils system restart命令。從發佈者開始,然後是每個訂閱者。

<#root>

admin:

utils system restart

Do you really want to restart ? Enter (yes/no)? yes

Appliance is being Restarted ... Warning: Restart could take up to 5 minutes.

Shutting down Service Manager. Please wait... \ Service Manager shutting down services... Please Wait

Broadcast message from root (Tue Dec 3 14:29:09 2013):

The system is going down for reboot NOW! Waiting .

Operation succeeded

# 驗證複製設定要求

導航到Cisco Unified Reporting頁面並生成Unified CM資料庫狀態報告。

複製可能尚未設定,但必須確保Unified CM主機、Unified CM Rhosts和Unified CM Sqlhosts檔案與 發佈者匹配。

如果不匹配,則需要重新引導不匹配的節點。如果這些檔案不匹配,則不要繼續執行下一步或重置 複製。

<b>□</b> <sup>Unifie</sup>	d CM Hosts
	ll servers have equivalent host files <u>(iew Details</u>
<b>⊢</b> Unifie	d CM Rhosts
🔽 А	ll servers have equivalent rhosts files.
🔽 А	ll servers have equivalent rhosts files.
⊞ <u>⊬</u>	<u>'iew Details</u>
	d CM Sqlhosts
🛛 🗹 А	ll servers have equivalent sqlhosts files.
🛛 🗹 д	ll servers have equivalent sqlhosts files.
	<u>'iew Details</u>

## 複製設定

複製無法自動設定,具體取決於版本。若要檢查此情況,請等待所有服務啟動,然後輸入utils復製 程式runtimestate命令。

狀態值0表示正在進行設定,而值2表示已成功為該節點設定複製。

#### 此輸出表示複製設定正在進行中(對於兩個節點,狀態顯示為0):

admin:utils dbreplication runtimestate

SERVER-NAME	IP ADDRESS	PING (msec)	RPC?	CDR (ID)	Server & STATUS	REPL. QUEUE	DBver& TABLES	REPL. LOOP?	REPLI (RTM	ICATIO T) & d	N SETUP etails
cucm911ccnapub	172.18.172.212	0.043	Yes	(2)	Connected	0	match	Yes	(2)	PUB Se	etup
Completed											
cucm911ccnasub1	172.18.172.213	0.626	Yes	(3)	Connected	1920	match	Yes	(0)	Setup	Completed
cucm911ccnasub2	172.18.172.214	0.676	Yes	(4)	Connected	0	match	Yes	(0) 5	Setup	Completed

#### 此輸出表示複製設定成功:

admin:utils dbreplication runtimestate

Cluster Detailed View from cucm911ccnapub (3 Servers):

		PING		CDR 3	Server	REPL.	DBver&	REPL.	REPLICATION	SETUP
SERVER-NAME	IP ADDRESS	(msec)	RPC?	(ID)	& STATUS	QUEUE	TABLES	LOOP?	(RTMT) & det	tails
cucm911ccnapub	172.18.172.212	0.043	Yes	(2)	Connected	0	match	Yes	(2) PUB Setu	ар
Completed										
cucm911ccnasub1	172.18.172.213	8.858	Yes	(3)	Connected	0	match	Yes	(2) Setup Co	ompleted
cucm911ccnasub2	172.18.172.214	0.729	Yes	(4)	Connected	0	match	Yes	(2) Setup Co	ompleted

如果出現任何狀態值為4的節點,或者複製在幾小時後未成功設定,請從發佈伺服器節點輸入utils複 製重置all命令。

如果複製繼續失敗,請參閱<u>排除Linux裝置型號思科中的CUCM資料庫複製故障</u>一文,瞭解有關如何 解決此問題的詳細資訊。

### 還原後

由於資料庫恢復不會恢復所有以前的元件,因此必須手動安裝或恢復許多伺服器級別的專案。

#### 啟用服務

DRF恢復不會啟用任何服務。導航到Tools > Service Activation,然後根據統一可維護性頁面中的站 點文檔啟用發佈者必須運行的所有必要服務:

Service Activation	Relate
🔚 Save 🧬 Set to Default 🔇 Refresh	
Status: () Ready	
Select Server	
Server* 172.18.172.212 - Go	

CM Services								
	Service Name	Activation Status						
1	Cisco CallManager	Activated						
	Cisco Messaging Interface	Deactivated						
1	Cisco Unified Mabile Vaice Access Service	Activated						
1	Cisco IP Voice Media Streaming App	Activated						
<b>v</b>	Cisco CTIManager	Activated						
1	Cisco Extension Mobility	Activated						
<b>V</b>	Cisco Extended Functions	Activated						
<b>v</b>	Cisco DHCP Monitor Service	Activated						
1	Cisco Interduster Lookup Service	Activated						
<b>V</b>	Cisco Location Bandwidth Manager	Activated						
1	Cisco Dialed Number Analyzer Server	Activated						
3	Cisco Dialed Number Analyzer	Activated						
<b>V</b>	Cisco Tftp	Activated						

#### 安裝未還原的資料

如果沒有完全備份,您必須複製某些手動配置。尤其是那些涉及證書和TFTP功能的配置:

- MoH檔案
- 裝置包
- 撥號計畫(用於非北美編碼計畫(NANP)撥號)
- 區域設定
- 任何其他雜項締約方會議檔案
- 以前手動上傳到發佈者(如果是TFTP伺服器)的所有檔案
- 簡易網路管理通訊協定(SNMP)社群字串
- 批次證書匯出適用於跨集群分機移動(EMCC)、集群間位置頻寬管理器(LBM)和集群間查詢服務(ILS)
- 安全中繼、網關和會議網橋的證書交換

💊 注意:對於混合模式群集,必須再次運行證書信任清單(CTL)客戶端。

### 疑難排解

本節介紹可能導致此過程失敗的各種方案。

#### 群集未進行身份驗證

如果群集未進行身份驗證,則兩個最常見的原因是不匹配的安全密碼和TCP埠8500上的連線問題。

若要驗證群集安全密碼是否匹配,請在兩個節點的CLI上輸入utils create report platform命令,然後 檢查platformConfig.xml檔案中的雜湊值。發佈者和訂閱者節點上的這些內容必須匹配。

<#root>

<IPSecSecurityPwCrypt> <ParamNameText>Security PW for this node</ParamNameText> <ParamDefaultValue>password</ParamDefaultValue><ParamValue>

0F989713763893AC831812812AB2825C8318 12812AB2825C831812812AB2825C

</ParamValue> </IPSecSecurityPwCrypt>

如果兩者相符,請確認連線埠8500上的TCP連線。如果它們不匹配,則嘗試修復密碼時可能會遇到 困難,因為圍繞該過程的CUCM代碼中存在多個缺陷:

- 思科錯誤ID CSCtn79868 pwrecovery tool僅重置sftpuser密碼
- 思科錯誤ID CSCug92142 pwrecovery工具不會更新內部使用者密碼
- 思科漏洞ID CSCug97360 在pwrecovery實用程式中拒絕使用
- 思科錯誤ID CSCts10778 為安全密碼恢復過程引發Denials
- 思科漏洞ID CSCua09290 CLI「set password user security」未設定正確的應用密碼
- 思科錯誤ID CSCtx45528 pwd reset cli返回good,但不會更改密碼
- 思科錯誤ID CSCup30002 在CUCM 10.5上更改安全密碼後,資料庫服務已關閉
- 思科漏洞ID CSCus13276 CUCM 10.5.2安全密碼恢復導致資料庫無法在重新啟動時啟動

如果CUCM版本包含所有這些問題的修復程式,最簡單的解決方案是在所有節點上完成<u>Cisco</u> <u>Unified Communications Operating System Administration Guide, Release 10.0(1)中詳述的密碼</u> 恢復過程。

如果CUCM版本不包含這些問題的修復程式,則思科技術支援中心(TAC)可以根據情況執行變通辦法。

恢復不處理CCMDB元件

如果恢復未列出資料庫元件,則備份本身可能不包含資料庫元件。確保發佈伺服器DB運行並且可以 接受查詢,並執行新的備份。

複製失敗

請參閱<u>排除Linux裝置型號Cisco中的CUCM資料庫複製故障</u>一文,以排除複製故障。

電話未註冊或無法訪問服務

因為資料庫恢復不會恢復任何證書,所以如果發佈伺服器是主TFTP伺服器,則簽名者會有所不同。 如果電話信任訂戶信任驗證服務(TVS)證書,並且電話和TVS伺服器之間開啟了TCP埠2445,則必 須自動解決此問題。

因此,思科建議您維護完整群集DRF備份。

由於Cisco錯誤ID CSCtn50405,8.6版之前的CUCM版本也可能出現證書問題,即使先前備份成功。

◆ 註:有關如何對初始信任清單(ITL)檔案進行故障排除的其他資訊,請參閱<u>Communications</u> <u>Manager Security By Default and ITL Operation and Troubleshooting</u> Cisco文章。

#### 關於此翻譯

思科已使用電腦和人工技術翻譯本文件,讓全世界的使用者能夠以自己的語言理解支援內容。請注 意,即使是最佳機器翻譯,也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準 確度概不負責,並建議一律查看原始英文文件(提供連結)。