

# Ultra-M UUID不相符修正MOP - vEPC

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## 簡介

本文檔介紹在託管StarOS VNF的Ultra-M設定中更正元素管理器(EM)和StarOS虛擬網路功能(VNF)之間的通用唯一識別符號(Universal Unique Identifier,UUID)不匹配所需的步驟。

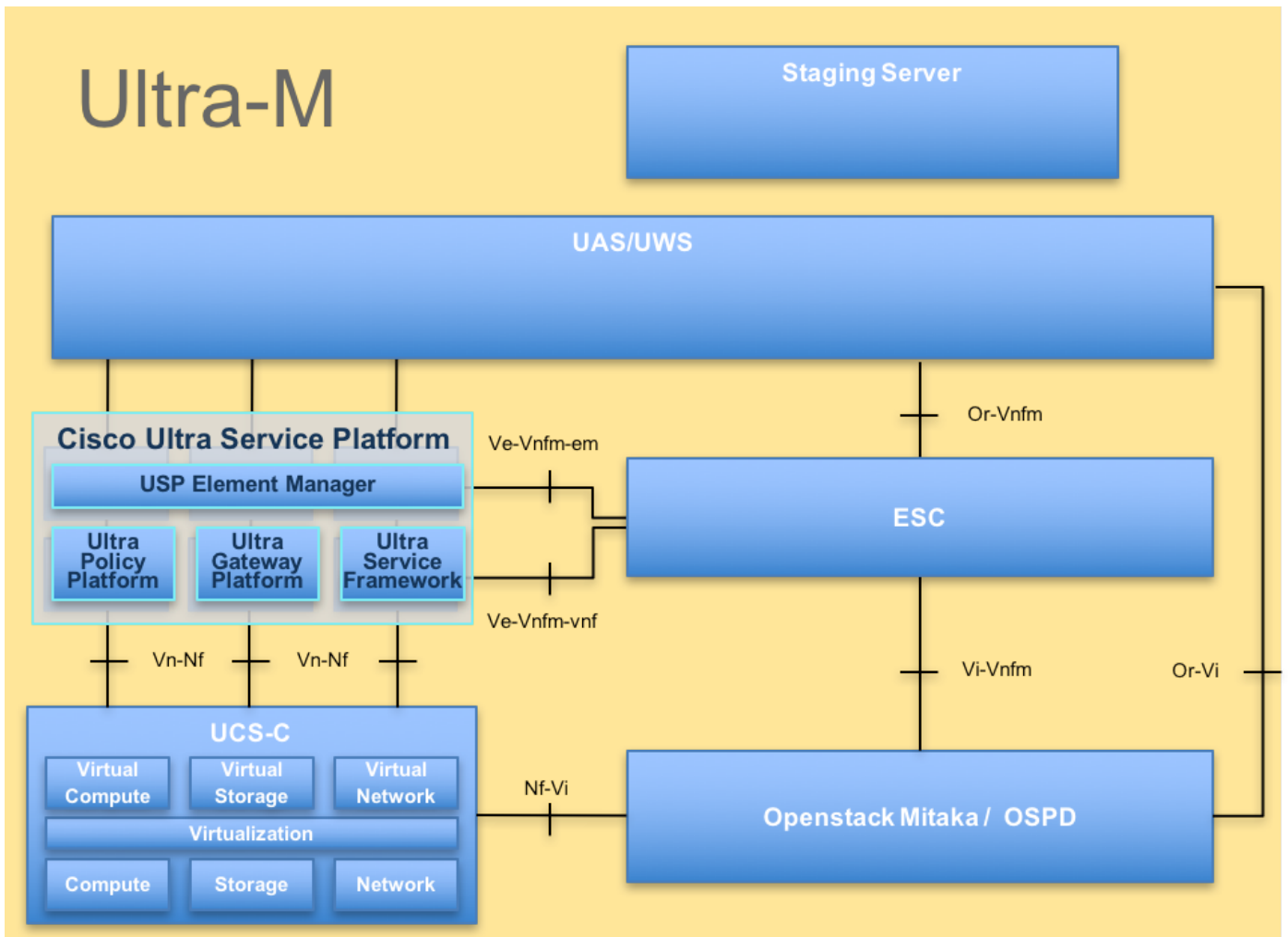
## 背景資訊

Ultra-M是經過預先打包和驗證的虛擬化移動資料包核心解決方案，旨在簡化VNF的部署。

Ultra-M解決方案由以下虛擬機器(VM)型別組成：

- 自動IT
- 自動部署
- Ultra自動化服務(UAS)
- 元素管理器(EM)
- 彈性服務控制器(ESC)
- 控制功能(CF)
- 作業階段功能(SF)

Ultra-M的高級體系結構及涉及的元件如下圖所示：



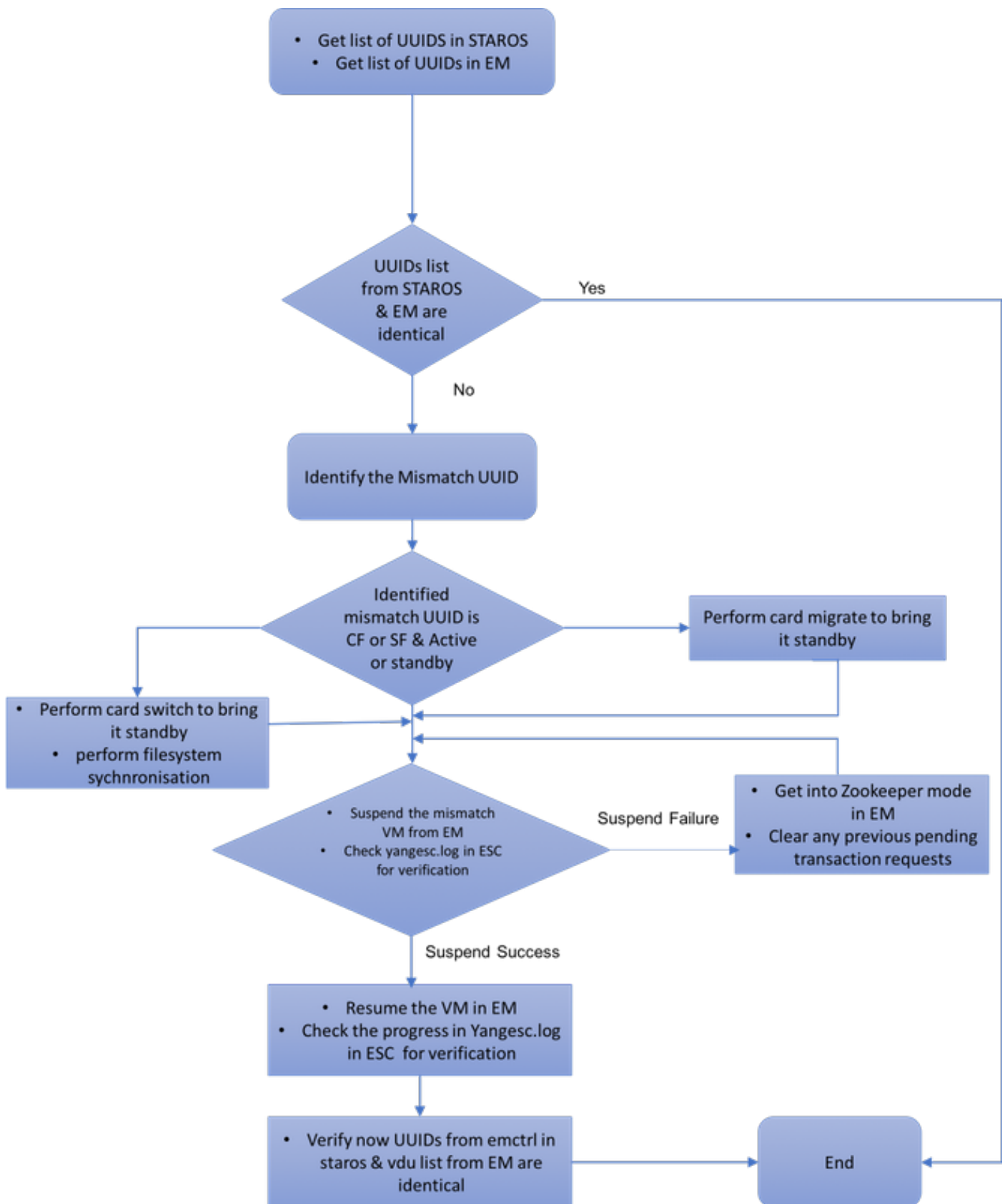
UltraM體系結構

附註：Ultra M 5.1.x版本用於定義本文檔中的過程。

## 縮寫

VNF	虛擬網路功能
CF	控制功能
SF	服務功能
ESC	彈性服務控制器
澳門幣	程式方法
OSD	對象儲存磁碟
硬碟	硬碟驅動器
固態硬碟	固態驅動器
VIM	虛擬基礎架構管理員
虛擬機器	虛擬機器
EM	元素管理器
UAS	Ultra自動化服務
UUID	通用唯一識別符號

## MoP的工作流程



## EM中的部署ID、UUID及其關係

在Ultra-M設定中有三個主要元件 — ESC、EM和StarOS VNF。EM充當ConfD查詢的代理，並代表StarOS VNF傳送響應。其中的每個元件都作為VM運行並維護資訊。當這三個節點上的VM的資料/狀態不匹配時，EM中會出現UUID不匹配警報。ESC對EM進行YANG呼叫以獲取ConfD資料。ConfD同時具有配置資訊和運算元據/狀態。EM轉換來自ESC的查詢並根據需要傳送響應。

# 預檢查

## 在EM中

驗證EM是否處於HA模式並顯示為master/slave:

```
ubuntu@vnfd2deploymentem-1:~$ ncs --status | more
vsn: 4.1.1
SMP support: yes, using 2 threads
Using epoll: yes
available modules: backplane,netconf,cdb,cli,snmp,webui
running modules: backplane,netconf,cdb,cli,webui
status: started
cluster status:
  mode: master
  node id: 6-1528831279
  connected slaves: 1
```

登入到EM並檢查EM群集是否正常：

```
ubuntu@vnfd2deploymentem-1:~$ ncs_cli -u admin -C
admin@scm# show ems
EM VNFM
ID SLA SCM PROXY
-----
5 up up up
9 up up up
```

```
ubuntu@vnfd2deploymentem-1:~$ ncs_cli -u admin -C
admin@scm# show ncs-state ha
ncs-state ha mode master
ncs-state ha node-id 9-1518035669
ncs-state ha connected-slave [ 5-1518043097 ]
```

## 在ESC中

在ESC中，驗證是否已建立與EM的netconf連線：

```
[admin@vnfm2-esc-0 esc-cli]$ netstat -an | grep 830
tcp        0      0 0.0.0.0:830          0.0.0.0:*            LISTEN
tcp        0      0 172.18.181.6:830    172.18.181.11:39266  ESTABLISHED
tcp        0      0 172.18.181.6:830    172.18.181.11:39267  ESTABLISHED
tcp        0      0 :::830              :::*                  LISTEN
[admin@vnfm2-esc-0 esc-cli]$
```

在ESC中，確保所有VM都處於活動狀態且服務處於活動狀態：

```
[admin@vnfm2-esc-0 esc-cli]$ ./esc_nc_cli get esc_datamodel | egrep "<vm_name>|<state>"
<state>IMAGE_ACTIVE_STATE</state>
<state>IMAGE_ACTIVE_STATE</state>
<state>IMAGE_ACTIVE_STATE</state>
<state>FLAVOR_ACTIVE_STATE</state>
<state>FLAVOR_ACTIVE_STATE</state>
```

```

<state>FLAVOR_ACTIVE_STATE</state>
  <state>SERVICE_ACTIVE_STATE</state>
    <vm_name>vnfd2-deployment_c1_0_13d5f181-0bd3-43e4-be2d-ada02636d870</vm_name>
    <state>VM_ALIVE_STATE</state>
    <vm_name>vnfd2-deployment_c4_0_9dd6e15b-8f72-43e7-94c0-924191d99555</vm_name>
    <state>VM_ALIVE_STATE</state>
    <vm_name>vnfd2-deployment_s2_0_b2cbf15a-3107-45c7-8edf-1afc5b787132</vm_name>
    <state>VM_ALIVE_STATE</state>
    <vm_name>vnfd2-deployment_s3_0_882cf1ed-fe7a-47a7-b833-dd3e284b3038</vm_name>
    <state>VM_ALIVE_STATE</state>
    <vm_name>vnfd2-deployment_s5_0_672bbb00-34f2-46e7-a756-52907e1d3b3d</vm_name>
    <state>VM_ALIVE_STATE</state>
    <vm_name>vnfd2-deployment_s6_0_6f30be77-6b9f-4da8-9577-e39c18f16dfb</vm_name>
    <state>VM_ALIVE_STATE</state>
  <state>SERVICE_ACTIVE_STATE</state>
    <vm_name>vnfd2-deployment_vnfd2-_0_02d1510d-53dd-4a14-9e21-
b3b367fef5b8</vm_name>
    <state>VM_ALIVE_STATE</state>
    <vm_name>vnfd2-deployment_vnfd2-_0_f17989e3-302a-4681-be46-
f2ebf62b252a</vm_name>
    <state>VM_ALIVE_STATE</state>
    <vm_name>vnfd2-deployment_vnfd2-_0_f63241f3-2516-4fc4-92f3-
06e45054dba0</vm_name>
    <state>VM_ALIVE_STATE</state>
[admin@vnfm2-esc-0 esc-cli]$

```

## 在StarOS VNF中

驗證vnfm-proxy-agent是線上：

```

[local]POD1-VNF2-PGW# show vnfm-proxy-agent status
Thursday June 21 07:25:02 UTC 2018
VNFM Proxy Agent Status:
  State      : online
  Connected to : 172.18.180.3:2181
  Bind Address : 172.18.180.13:38233
VNFM Proxy address count: 3

```

驗證emctrl show活動狀態：

```

[local]POD1-VNF2-PGW# show emctrl status
Thursday June 21 07:25:09 UTC 2018
emctrl status:

```

```
emctrl in state: ALIVE
```

## 確定UUID不匹配

必須在StarOS VNF和EM之間比較UUID，以便識別不匹配。這些過程列出了在StarOS VNF和EM中執行的步驟，以便從各個節點獲取UUID。

在StarOS中，可以從show emctrl vdu list或show card hardware輸出獲取UUID。

```

[local]POD1-VNF2-PGW# show emctrl vdu list
Thursday June 21 07:24:28 UTC 2018
Showing emctrl vdu
card[01]: name[CFC_01                               ] uuid[33C779D2-E271-47AF-8AD5-
6A982C79BA62]

```

```

card[02]: name[CFC_02                                ] uuid[E75AE5EE-2236-4FFD-A0D4-
054EC246D506]
card[03]: name[SFC_03                                ] uuid[E1A6762D-4E84-4A86-A1B1-
84772B3368DC]
card[04]: name[SFC_04                                ] uuid[B283D43C-6E0C-42E8-87D4-
A3AF15A61A83]
card[05]: name[SFC_05                                ] uuid[CF0C63DF-D041-42E1-B541-
6B15B0BF2F3E]
card[06]: name[SFC_06                                ] uuid[65344D53-DE09-4B0B-89A6-
85D5CFDB3A55]
Incomplete command

```

```
[local]POD1-VNF2-PGW# show card hardware | grep -i uuid
```

```

Thursday June 21 07:24:46 UTC 2018
UUID/Serial Number      : 33C779D2-E271-47AF-8AD5-6A982C79BA62
UUID/Serial Number      : E75AE5EE-2236-4FFD-A0D4-054EC246D506
UUID/Serial Number      : E1A6762D-4E84-4A86-A1B1-84772B3368DC
UUID/Serial Number      : B283D43C-6E0C-42E8-87D4-A3AF15A61A83
UUID/Serial Number      : CF0C63DF-D041-42E1-B541-6B15B0BF2F3E
UUID/Serial Number      : 65344D53-DE09-4B0B-89A6-85D5CFDB3A55

```

**列出EM中的UUID:**

```

ubuntu@vnfd2deploymentem-1:~$ ncs_cli -u admin -C
admin@scm# show vdus vdu | select vnfci

```

IS	ID	VIM ID	NAME	MEMORY DEVICE	STORAGE DEVICE	CONSTITUENT		INFRA
						UTILS	USAGE	
control-function true	33c779d2-e271-47af-8ad5-6a982c79ba62		scm-cf-nc	scm-cf-nc	di-chasis		true	
session-function true	e75ae5ee-2236-4ffd-a0d4-054ec246d506		scm-cf-nc	scm-cf-nc	di-chasis		true	
control-function false	e1a6762d-4e84-4a86-a1b1-84772b3368dc		-	-	di-chasis		true	
session-function false	b283d43c-6e0c-42e8-87d4-a3af15a61a83		-	-	di-chasis		true	
control-function false	828281f4-c0f4-4061-b324-26277d294b86		-	-	di-chasis		true	
session-function false	65344d53-de09-4b0b-89a6-85d5cfdb3a55		-	-	di-chasis		true	

從該輸出中，您可以看到卡5在EM和StarOS之間存在UUID不匹配：

```
[local]POD1-VNF2-PGW# show emctrl vdu list
```

```

Thursday June 21 07:24:28 UTC 2018
Showing emctrl vdu
.....
card[05]: name[SFC_05                                ] uuid[CF0C63DF-D041-42E1-B541-
6B15B0BF2F3E]
.....

```

```
admin@scm# show vdus vdu | select vnfci
```

IS	ID	VIM ID	NAME	MEMORY DEVICE	STORAGE DEVICE	CONSTITUENT		INFRA
						UTILS	USAGE	
control-function true	33c779d2-e271-47af-8ad5-6a982c79ba62		scm-cf-nc	scm-cf-nc	di-chasis		true	
session-function true	e75ae5ee-2236-4ffd-a0d4-054ec246d506		scm-cf-nc	scm-cf-nc	di-chasis		true	
control-function false	e1a6762d-4e84-4a86-a1b1-84772b3368dc		-	-	di-chasis		true	
session-function false	b283d43c-6e0c-42e8-87d4-a3af15a61a83		-	-	di-chasis		true	
control-function false	828281f4-c0f4-4061-b324-26277d294b86		-	-	di-chasis		true	
session-function false	65344d53-de09-4b0b-89a6-85d5cfdb3a55		-	-	di-chasis		true	

```
INITIALIZED VIM ID UTILS BYTES BYTES
```

```
-----  
-----  
session-function .....  
                BOOT_generic_di-chasis_SF3_1 - - di-chasis true  
false          828281f4-c0f4-4061-b324-26277d294b86 - - -  
                .....
```

**附註：**如果多個卡的UUID不匹配，請確保僅在完成一個卡之後移動到另一個卡。如果同時嘗試多個卡，則可能會遇到ESC VM索引問題。

## 恢復UUID

如果CF卡中的UUID不匹配，請確保執行**檔案系統**同步：

```
[local]VNF2# filesystem synchronize all
```

如果不匹配的UUID卡為SF且處於活動狀態，請執行卡遷移以便使其處於備用狀態：

```
[local]VNF2# card migrate from 4 to 5
```

如果不匹配的UUID卡為CF且處於活動狀態，請執行卡切換以使它處於備用狀態：

```
[local]VNF2# card switch from 2 to 1
```

在EM中，掛起NCS CLI中UUID不匹配的卡：

```
ubuntu@vnfd2deploymentem-1:~$ ncs_cli -u admin -C
```

```
admin@scm# suspend-vnfc vdu session-function vnfc BOOT_generic_di-chasis_SF3_1  
success true
```

**附註：**在某些極少數情況下，EM的suspend-vnfc CLI不會在ESC中啟動服務更新。在EM中，日誌(/var/log/em/vnfm-proxy/vnfm-proxy.log)顯示一條錯誤消息，指示EM具有掛起的請求並且忽略新請求。要解決此問題，請檢查EM zookeeper以檢視任何停滯的掛起請求，然後手動清除它們。若要執行此操作，請參閱本文檔的最後一節「清除EM縮放器中的掛起請求 (可選)」。

在ESC上yangesc.log中驗證事務是否被接受，並等待其完成：

```
#####  
# ESC on vnfm2-esc-0.novalocal is in MASTER state.  
#####
```

```
[admin@vnfm2-esc-0 ~]$ cd /opt/cisco/esc/esc-confd/esc-cli  
[admin@vnfm2-esc-0 esc-cli]$ tail -f /var/log/esc/yangesc.log  
19:27:31,333 12-Jun-2018 INFO Type: SERVICE_ALIVE  
19:27:31,333 12-Jun-2018 INFO Status: SUCCESS  
19:27:31,333 12-Jun-2018 INFO Status Code: 200  
19:27:31,333 12-Jun-2018 INFO Status Msg: Service group deployment completed successfully!
```

```

19:27:31,333 12-Jun-2018 INFO Tenant: core
19:27:31,333 12-Jun-2018 INFO Deployment ID: 9bcad337-d1f0-463c-8450-de7697b1e104
19:27:31,333 12-Jun-2018 INFO Deployment name: vnfd2-deployment-1.0.0-1
19:27:31,333 12-Jun-2018 INFO ===== SEND NOTIFICATION ENDS =====
07:29:49,510 21-Jun-2018 INFO ===== GET OPERATIONAL/INFO DATA =====
07:30:32,318 21-Jun-2018 INFO ===== GET OPERATIONAL/INFO DATA =====
07:36:25,083 21-Jun-2018 INFO ===== GET OPERATIONAL/INFO DATA =====
07:36:25,628 21-Jun-2018 INFO
07:36:25,628 21-Jun-2018 INFO ===== CONF D TRANSACTION STARTED =====
07:36:25,717 21-Jun-2018 INFO
07:36:25,717 21-Jun-2018 INFO ===== UPDATE SERVICE REQUEST RECEIVED (UNDER TENANT) =====
07:36:25,717 21-Jun-2018 INFO Tenant name: core
07:36:25,717 21-Jun-2018 INFO Deployment name: vnfd2-deployment-1.0.0-1
07:36:25,843 21-Jun-2018 INFO
07:36:25,843 21-Jun-2018 INFO ===== CONF D TRANSACTION ACCEPTED =====
07:37:04,535 21-Jun-2018 INFO
07:37:04,536 21-Jun-2018 INFO ===== SEND NOTIFICATION STARTS =====
07:37:04,536 21-Jun-2018 INFO Type: VM_UNDEPLOYED
07:37:04,536 21-Jun-2018 INFO Status: SUCCESS
07:37:04,536 21-Jun-2018 INFO Status Code: 200
07:37:04,536 21-Jun-2018 INFO Status Msg: VM Undeployed during deployment update, VM name:
[vnfd2-deployment_s6_0_6f30be77-6b9f-4da8-9577-e39c18f16dfb]
07:37:04,536 21-Jun-2018 INFO Tenant: core
07:37:04,536 21-Jun-2018 INFO Deployment ID: 9bcad337-d1f0-463c-8450-de7697b1e104
07:37:04,536 21-Jun-2018 INFO Deployment name: vnfd2-deployment-1.0.0-1
07:37:04,536 21-Jun-2018 INFO VM group name: s6
07:37:04,537 21-Jun-2018 INFO User configs: 1
07:37:04,537 21-Jun-2018 INFO VM Source:
07:37:04,537 21-Jun-2018 INFO VM ID: cf0c63df-d041-42e1-b541-6b15b0bf2f3e
07:37:04,537 21-Jun-2018 INFO Host ID:
47853854d13d80e6d0212dabb0be2e12c12e431bf23d4e0260642594
07:37:04,537 21-Jun-2018 INFO Host Name: pod1-compute-9.localdomain
07:37:04,537 21-Jun-2018 INFO ===== SEND NOTIFICATION ENDS =====
07:37:04,550 21-Jun-2018 INFO
07:37:04,550 21-Jun-2018 INFO ===== SEND NOTIFICATION STARTS =====
07:37:04,550 21-Jun-2018 INFO Type: SERVICE UPDATED
07:37:04,550 21-Jun-2018 INFO Status: SUCCESS
07:37:04,550 21-Jun-2018 INFO Status Code: 200
07:37:04,550 21-Jun-2018 INFO Status Msg: Service group update completed successfully
07:37:04,550 21-Jun-2018 INFO Tenant: core
07:37:04,550 21-Jun-2018 INFO Deployment ID: 9bcad337-d1f0-463c-8450-de7697b1e104
07:37:04,550 21-Jun-2018 INFO Deployment name: vnfd2-deployment-1.0.0-1
07:37:04,550 21-Jun-2018 INFO ===== SEND NOTIFICATION ENDS =====
07:41:55,912 21-Jun-2018 INFO ===== GET OPERATIONAL/INFO DATA =====

```

在取消部署虛擬機器並更新服務後，繼續掛起的卡：

```

admin@scm# resume-vnfc vdu session-function vnfc BOOT_generic_di-chasis_SF3_1
success true

```

從yangesc.log中確認VM已重新部署且處於活動狀態：

```

#####
# ESC on vnf2-esc-0.novalocal is in MASTER state.
#####

```

```

[admin@vnfm2-esc-0 ~]$ cd /opt/cisco/esc/esc-confd/esc-cli
[admin@vnfm2-esc-0 esc-cli]$ tail -f /var/log/esc/yangesc.log
07:41:55,912 21-Jun-2018 INFO ===== GET OPERATIONAL/INFO DATA =====
07:41:56,412 21-Jun-2018 INFO

```



```

07:41:56,413 21-Jun-2018 INFO ===== CONFID TRANSACTION STARTED =====
07:41:56,513 21-Jun-2018 INFO
07:41:56,513 21-Jun-2018 INFO ===== UPDATE SERVICE REQUEST RECEIVED (UNDER TENANT) =====
07:41:56,513 21-Jun-2018 INFO Tenant name: core
07:41:56,513 21-Jun-2018 INFO Deployment name: vnfd2-deployment-1.0.0-1
07:41:56,612 21-Jun-2018 INFO
07:41:56,612 21-Jun-2018 INFO ===== CONFID TRANSACTION ACCEPTED =====
07:43:53,615 21-Jun-2018 INFO
07:43:53,615 21-Jun-2018 INFO ===== SEND NOTIFICATION STARTS =====
07:43:53,616 21-Jun-2018 INFO Type: VM_DEPLOYED
07:43:53,616 21-Jun-2018 INFO Status: SUCCESS
07:43:53,616 21-Jun-2018 INFO Status Code: 200
07:43:53,616 21-Jun-2018 INFO Status Msg: VM Deployed in a deployment update. VM name: [vnfd2-
deployment_s6_0_23cc139b-a7ca-45fb-b005-733c98ccc299]
07:43:53,616 21-Jun-2018 INFO Tenant: core
07:43:53,616 21-Jun-2018 INFO Deployment ID: 9bcad337-d1f0-463c-8450-de7697b1e104
07:43:53,616 21-Jun-2018 INFO Deployment name: vnfd2-deployment-1.0.0-1
07:43:53,616 21-Jun-2018 INFO VM group name: s6
07:43:53,616 21-Jun-2018 INFO User configs: 1
07:43:53,616 21-Jun-2018 INFO VM Source:
07:43:53,616 21-Jun-2018 INFO VM ID: 637547ad-094e-4132-8613-b4d8502ec385
07:43:53,616 21-Jun-2018 INFO Host ID:
47853854d13d80e6d0212dabb0be2e12c12e431bf23d4e0260642594
07:43:53,616 21-Jun-2018 INFO Host Name: pod1-compute-9.localdomain
07:43:53,616 21-Jun-2018 INFO ===== SEND NOTIFICATION ENDS =====
07:44:20,170 21-Jun-2018 INFO
07:44:20,170 21-Jun-2018 INFO ===== SEND NOTIFICATION STARTS =====
07:44:20,170 21-Jun-2018 INFO Type: VM_ALIVE
07:44:20,170 21-Jun-2018 INFO Status: SUCCESS
07:44:20,170 21-Jun-2018 INFO Status Code: 200
07:44:20,170 21-Jun-2018 INFO Status Msg: VM_Alive event received during deployment update, VM
ID: [vnfd2-deployment_s6_0_23cc139b-a7ca-45fb-b005-733c98ccc299]
07:44:20,170 21-Jun-2018 INFO Tenant: core
07:44:20,170 21-Jun-2018 INFO Deployment ID: 9bcad337-d1f0-463c-8450-de7697b1e104
07:44:20,170 21-Jun-2018 INFO Deployment name: vnfd2-deployment-1.0.0-1
07:44:20,170 21-Jun-2018 INFO VM group name: s6
07:44:20,170 21-Jun-2018 INFO User configs: 1
07:44:20,170 21-Jun-2018 INFO VM Source:
07:44:20,170 21-Jun-2018 INFO VM ID: 637547ad-094e-4132-8613-b4d8502ec385
07:44:20,170 21-Jun-2018 INFO Host ID:
47853854d13d80e6d0212dabb0be2e12c12e431bf23d4e0260642594
07:44:20,170 21-Jun-2018 INFO Host Name: pod1-compute-9.localdomain
07:44:20,170 21-Jun-2018 INFO ===== SEND NOTIFICATION ENDS =====
07:44:20,194 21-Jun-2018 INFO
07:44:20,194 21-Jun-2018 INFO ===== SEND NOTIFICATION STARTS =====
07:44:20,194 21-Jun-2018 INFO Type: SERVICE_UPDATED
07:44:20,194 21-Jun-2018 INFO Status: SUCCESS
07:44:20,194 21-Jun-2018 INFO Status Code: 200
07:44:20,194 21-Jun-2018 INFO Status Msg: Service group update completed successfully
07:44:20,194 21-Jun-2018 INFO Tenant: core
07:44:20,194 21-Jun-2018 INFO Deployment ID: 9bcad337-d1f0-463c-8450-de7697b1e104
07:44:20,194 21-Jun-2018 INFO Deployment name: vnfd2-deployment-1.0.0-1
07:44:20,194 21-Jun-2018 INFO ===== SEND NOTIFICATION ENDS =====

```

再次比較StarOS和EM中的UUID，確認已修復不匹配：

```
admin@scm# show vdus vdu | select vnfc1
```

```

MEMORY STORAGE
DEVICE DEVICE CONSTITUENT
ELEMENT

```

IS	ID	NAME	CPU	UTILS	USAGE	INFRA
INITIALIZED	VIM ID	UTILS	GROUP	GROUP	BYTES	
control-function	BOOT_generic_di-chasis_CF1_1	scm-cf-nc	scm-cf-nc	di-chasis		true
true	33c779d2-e271-47af-8ad5-6a982c79ba62	-	-	-		
session-function	BOOT_generic_di-chasis_CF2_1	scm-cf-nc	scm-cf-nc	di-chasis		true
true	e75ae5ee-2236-4ffd-a0d4-054ec246d506	-	-	-		
session-function	BOOT_generic_di-chasis_SF1_1	-	-	di-chasis		true
false	e1a6762d-4e84-4a86-a1b1-84772b3368dc	-	-	-		
session-function	BOOT_generic_di-chasis_SF2_1	-	-	di-chasis		true
false	b283d43c-6e0c-42e8-87d4-a3af15a61a83	-	-	-		
<b>false</b>	<b>BOOT_generic_di-chasis_SF3_1</b>	<b>-</b>	<b>-</b>	<b>di-chasis</b>		<b>true</b>
<b>false</b>	<b>637547ad-094e-4132-8613-b4d8502ec385</b>	<b>-</b>	<b>-</b>	<b>-</b>		
session-function	BOOT_generic_di-chasis_SF4_1	-	-	di-chasis		true
false	65344d53-de09-4b0b-89a6-85d5cfdb3a55	-	-	-		

```
[local]POD1-VNF2-PGW# show emctrl vdu list
```

```
Thursday June 21 09:09:02 UTC 2018
```

```
Showing emctrl vdu
```

```
card[01]: name[CFC_01] ] uuid[33C779D2-E271-47AF-8AD5-6A982C79BA62]
card[02]: name[CFC_02] ] uuid[E75AE5EE-2236-4FFD-A0D4-054EC246D506]
card[03]: name[SFC_03] ] uuid[E1A6762D-4E84-4A86-A1B1-84772B3368DC]
card[04]: name[SFC_04] ] uuid[B283D43C-6E0C-42E8-87D4-A3AF15A61A83]
card[05]: name[session-function/BOOT_generic_di-chasis_SF3_1] ] uuid[637547AD-094E-4132-8613-B4D8502EC385]
card[06]: name[SFC_06] ] uuid[65344D53-DE09-4B0B-89A6-85D5CFDB3A55]
```

```
Incomplete command
```

```
[local]POD1-VNF2-PGW#
```

```
[local]POD1-VNF2-PGW#
```

```
[local]POD1-VNF2-PGW#
```

```
[local]POD1-VNF2-PGW# show card hardware | grep -i uuid
```

```
Thursday June 21 09:09:11 UTC 2018
```

```
UUID/Serial Number : 33C779D2-E271-47AF-8AD5-6A982C79BA62
UUID/Serial Number : E75AE5EE-2236-4FFD-A0D4-054EC246D506
UUID/Serial Number : E1A6762D-4E84-4A86-A1B1-84772B3368DC
UUID/Serial Number : B283D43C-6E0C-42E8-87D4-A3AF15A61A83
UUID/Serial Number : 637547AD-094E-4132-8613-B4D8502EC385
UUID/Serial Number : 65344D53-DE09-4B0B-89A6-85D5CFDB3A55
```

## 清除EM Zookeeper中的掛起請求

附註：這是選用的。

訪問zookeeper:

```
ubuntu@ultramvnmlem-0:~$ /opt/cisco/usp/packages/zookeeper/current/bin/zkCli.sh
```

```
<snip>
```

```
[zk: localhost:2181(CONNECTED) 0]
```

列出待處理請求：

```
[zk: localhost:2181(CONNECTED) 0] ls /request
```

刪除所有列出的請求：

```
[zk: localhost:2181(CONNECTED) 0] rmr /request/request00000000xx
```

清除所有掛起請求後，再次重新啟動掛起請求。

## 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）。