

# UltraM: VM-herstel nadat ESC-retry is verlopen

## Inhoud

[Inleiding](#)

[Probleem](#)

[Oplossing](#)

## Inleiding

In deze documenten wordt beschreven hoe een virtuele machine (VM) van gevirtualiseerde Packet Core (VPC) kan worden hersteld in Cisco Ultra Services Platform (UltraM) nadat de VM enige tijd ontoegankelijk is geweest en Cisco Elastic Services Controller (ESC) probeert deze te herstellen.

## Probleem

Compact knooppunt wordt verwijderd (of ontoegankelijk) in UltraM-instellingen. Wanneer ESC het knooppunt probeert te herstellen, maar dit is niet mogelijk omdat het knooppunt niet toegankelijk was. Dit scenario kan worden gesimuleerd wanneer u stroomkabels bij een computerknooppunt achterlaat. Eén manier om dit scenario te simuleren is het verwijderen van stroomkabels van het Unified Computing System (UCS)-blad. Nadat ESC de VM niet heeft hersteld, gaat deze in de "FOUT"-status onder OpenStack en blijft "booting" staan.

In het voorbeeld is SF-kaart 5 te vinden op `vnkrw1-implementation_s6_0_e03f87f5-63b6-4053-8d0f-0c9df963162c`:

```
[local]rcdn-ulram-lab# show card table
```

Slot	Card Type	Oper State	SPOF	Attach
1: CFC	Control Function Virtual Card	Standby	-	
2: CFC	Control Function Virtual Card	Active	No	
3: FC	1-Port Service Function Virtual Card	Active	No	
4: FC	1-Port Service Function Virtual Card	Active	No	
5: FC	1-Port Service Function Virtual Card	Booting	-	
6: FC	1-Port Service Function Virtual Card	Active	No	
7: FC	1-Port Service Function Virtual Card	Active	No	

```
[stack@ultram-ospd ~]$ nova list
```

ID	Name	Status	Task State	Power State
Networks				
beab0296-8cfa-4b63-8a05-a800637199f5	Testcompanion	ACTIVE	Running	testcomp- gn=10.10.11.8; mgmt=172.16.181.18, 10.201.206.46; testcomp-sig=10.10.13.5; testcomp- gi=10.10.12.7
235f5591-9502-4ba3-a003-b254494d258b0	auto-deploy-ISO-590-uas-	ACTIVE	Running	mgmt=172.16.181.11, 10.201.206.44
9450cb19-f073-476b-a750-9336b26e3c6a	auto-it-vnf-ISO-590-uas-0	ACTIVE	Running	mgmt=172.16.181.8, 10.201.206.43
d0d91636-951d-49db-a92b-b2a639f5db9d	autovnf1-uas-0	ACTIVE	Running	orchestr=172.16.180.14; mgmt=172.16.181.13
901f30e2-e96e-4658-9e1e-39a45b5859c7	autovnf1-uas-1	ACTIVE	Running	orchestr=172.16.180.5; mgmt=172.16.181.12
9edb3a8d-a69b-4912-86f6-9d0b05d6210d	autovnf1-uas-2	ACTIVE	Running	orchestr=172.16.180.16; mgmt=172.16.181.5
56ce362c-3494-4106-98e3-ba06e56ee4ed	ultram-vnfm1-ESC-0	ACTIVE	Running	orchestr=172.16.180.9; mgmt=172.16.181.6, 10.201.206.55
bb687399-e1f9-44b2-a258-cfa29dcf178e1	ultram-vnfm1-ESC-1	ACTIVE	Running	orchestr=172.16.180.15; mgmt=172.16.181.7
bfc4096c-4ff7-4b30-af3f-5bc3810b30e3	ultram-vnfm1-em_ultram_0_9b5ccf05-c340-44da-9bca-f5af4689ea42	ACTIVE	Running	orchestr=172.16.180.7; mgmt=172.16.181.14
cf7ddc9e-5e6d-4e38-a606-9dc9d31c559d	ultram-vnfm1-em_ultram_0_c2533edd-8756-44fb-a8bf-98b9c10bfacd	ACTIVE	Running	orchestr=172.16.180.8; mgmt=172.16.181.15
592b5b3f-0b0b-4bc6-81e7-a8cc9a609594	ultram-vnfm1-em_ultram_0_ce0c37a0-509e-45d1-9d00-464988e02730	ACTIVE	Running	orchestr=172.16.180.6; mgmt=172.16.181.10
143baf4f-024a-47f1-969a-d4d79d89be14	vnfd1-deployment_c1_0_84c5bc9e-9d80-4628-b88a-f8a0011b5d4b	ACTIVE	Running	orchestr=172.16.180.26; ultram-vnfm1-di- internall=192.168.1.13; mgmt=172.16.181.25

```

| b74a0365-3be1-4bee-b1cc-e454d5b0cd11 | vnf1-deployment_c2_0_66bac767-39fe-4972-b877-
7826468a762e | ACTIVE | - | Running | orchestr=172.16.180.10; ultram-vnfm1-di-
internall=192.168.1.5; mgmt=172.16.181.20, 10.201.206.45 |

| 59a02ec2-bed6-4ad8-81ff-e8a922742f7b | vnf1-deployment_s3_0_f9f6b7a6-1458-4b22-b40f-
33f8af3500b8 | ACTIVE | - | Running | ultram-vnfm1-service-network1=10.10.10.4;
orchestr=172.16.180.17; ultram-vnfm1-di-internall=192.168.1.6 |

| 52e9a2b0-cf2c-478d-baea-f4a5f3b7f327 | vnf1-deployment_s4_0_8c78cfd9-57c5-4394-992a-
c86393187dd0 | ACTIVE | - | Running | ultram-vnfm1-service-network1=10.10.10.11;
orchestr=172.16.180.20; ultram-vnfm1-di-internall=192.168.1.3 |

| bd7c6600-3e8f-4c09-a35c-89921bbf1b35 | vnf1-deployment_s5_0_f1c48ea1-4a91-4098-86f6-
48e172e23c83 | ACTIVE | - | Running | ultram-vnfm1-service-network1=10.10.10.12;
orchestr=172.16.180.13; ultram-vnfm1-di-internall=192.168.1.2 |

| 085baf6a-02bf-4190-ac38-bbb33350b941 | vnf1-deployment_s6_0_e03f87f5-63b6-4053-8d0f-
0c9df963162c | ERROR | - | NOSTATE
|

| ea03767f-5dd9-43ed-8e9d-603590da2580 | vnf1-deployment_s7_0_e887d8b1-7c98-4f60-b343-
b0be7b387b32 | ACTIVE | - | Running | ultram-vnfm1-service-network1=10.10.10.10;
orchestr=172.16.180.18; ultram-vnfm1-di-internall=192.168.1.9 |

```

```

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-----+

```

Nadat ESC de mislukte VM probeert te herstellen, tekent het de VM als defecte voorbeelden in OpenStack en probeert het niet opnieuw te herstellen van nu.

Hier zijn logbestanden van ESC waarin VM-herstel mislukt:

```

15:11:04,617 11-Aug-2017 WARN ===== SEND NOTIFICATION STARTS =====
15:11:04,617 11-Aug-2017 WARN Type: VM_RECOVERY_INIT
15:11:04,617 11-Aug-2017 WARN Status: SUCCESS
15:11:04,617 11-Aug-2017 WARN Status Code: 200
15:11:04,617 11-Aug-2017 WARN Status Msg: Recovery event for VM [vnf1-
deployment_s6_0_e03f87f5-63b6-4053-8d0f-0c9df963162c] triggered.
15:11:04,617 11-Aug-2017 WARN Tenant: core
15:11:04,617 11-Aug-2017 WARN Service ID: NULL
15:11:04,617 11-Aug-2017 WARN Deployment ID: b41ad0ec-bc74-4bb3-85b6-7ef430074187
15:11:04,617 11-Aug-2017 WARN Deployment name: vnf1-deployment-1.0.0-1
15:11:04,617 11-Aug-2017 WARN VM group name: s6
15:11:04,618 11-Aug-2017 WARN VM Source:
15:11:04,618 11-Aug-2017 WARN VM ID: 4d6b1b6f-6137-4e8e-b61c-66d5fb59ba0d
15:11:04,618 11-Aug-2017 WARN Host ID:
20b7df6d083651eb04f1f014e8a4958ddf9c1654cb3ad9057adc7e73

```

15:11:04,618 11-Aug-2017 WARN Host Name: ultram-rcdnlab-compute-4.localdomain

15:11:04,618 11-Aug-2017 WARN [DEBUG-ONLY] VM IP: 10.10.10.9; 172.16.180.22; 192.168.1.12;

15:11:04,618 11-Aug-2017 WARN ===== SEND NOTIFICATION ENDS =====

15:16:38,019 11-Aug-2017 WARN

15:16:38,020 11-Aug-2017 WARN ===== SEND NOTIFICATION STARTS =====

15:16:38,020 11-Aug-2017 WARN Type: VM\_RECOVERY\_REBOOT

15:16:38,020 11-Aug-2017 WARN Status: FAILURE

15:16:38,020 11-Aug-2017 WARN Status Code: 500

15:16:38,020 11-Aug-2017 WARN Status Msg: VM [vnfd1-deployment\_s6\_0\_e03f87f5-63b6-4053-8d0f-0c9df963162c] failed to be rebooted.

15:16:38,020 11-Aug-2017 WARN Tenant: core

15:16:38,020 11-Aug-2017 WARN Service ID: NULL

15:16:38,020 11-Aug-2017 WARN Deployment ID: b41ad0ec-bc74-4bb3-85b6-7ef430074187

15:16:38,020 11-Aug-2017 WARN Deployment name: vnfd1-deployment-1.0.0-1

15:16:38,020 11-Aug-2017 WARN VM group name: s6

15:16:38,021 11-Aug-2017 WARN VM Source:

15:16:38,021 11-Aug-2017 WARN VM ID: 4d6b1b6f-6137-4e8e-b61c-66d5fb59ba0d

15:16:38,021 11-Aug-2017 WARN Host ID:  
20b7df6d083651eb04f1f014e8a4958ddf9c1654cb3ad9057adc7e73

15:16:38,021 11-Aug-2017 WARN Host Name: ultram-rcdnlab-compute-4.localdomain

15:16:38,021 11-Aug-2017 WARN [DEBUG-ONLY] VM IP: 10.10.10.9; 172.16.180.22; 192.168.1.12;

15:16:38,021 11-Aug-2017 WARN ===== SEND NOTIFICATION ENDS =====

15:16:48,286 11-Aug-2017 WARN

15:16:48,286 11-Aug-2017 WARN ===== SEND NOTIFICATION STARTS =====

15:16:48,286 11-Aug-2017 WARN Type: VM\_RECOVERY\_UNDEPLOYED

15:16:48,286 11-Aug-2017 WARN Status: SUCCESS

15:16:48,286 11-Aug-2017 WARN Status Code: 204

15:16:48,286 11-Aug-2017 WARN Status Msg: VM [vnfd1-deployment\_s6\_0\_e03f87f5-63b6-4053-8d0f-0c9df963162c] has been undeployed.

15:16:48,286 11-Aug-2017 WARN Tenant: core

15:16:48,286 11-Aug-2017 WARN Service ID: NULL

15:16:48,286 11-Aug-2017 WARN Deployment ID: b41ad0ec-bc74-4bb3-85b6-7ef430074187

15:16:48,286 11-Aug-2017 WARN Deployment name: vnfd1-deployment-1.0.0-1

15:16:48,286 11-Aug-2017 WARN VM group name: s6

```
15:16:48,286 11-Aug-2017 WARN VM Source:
15:16:48,286 11-Aug-2017 WARN VM ID: 4d6b1b6f-6137-4e8e-b61c-66d5fb59ba0d
15:16:48,286 11-Aug-2017 WARN Host ID:
20b7df6d083651eb04f1f014e8a4958ddf9c1654cb3ad9057adc7e73
15:16:48,286 11-Aug-2017 WARN Host Name: ultram-rcdnlab-compute-4.localdomain
15:16:48,287 11-Aug-2017 WARN [DEBUG-ONLY] VM IP: 10.10.10.9; 172.16.180.22; 192.168.1.12;
15:16:48,287 11-Aug-2017 WARN ===== SEND NOTIFICATION ENDS =====
15:18:04,418 11-Aug-2017 WARN
15:18:04,418 11-Aug-2017 WARN ===== SEND NOTIFICATION STARTS =====
15:18:04,418 11-Aug-2017 WARN Type: VM_RECOVERY_COMPLETE
15:18:04,418 11-Aug-2017 WARN Status: FAILURE
15:18:04,418 11-Aug-2017 WARN Status Code: 500
15:18:04,418 11-Aug-2017 WARN Status Msg: Error deploying VM [vnfd1-deployment_s6_0_e03f87f5-63b6-4053-8d0f-0c9df963162c] as part of recovery workflow. VIM Driver: VM booted in ERROR state in Openstack: No valid host was found. There are not enough hosts available.
15:18:04,418 11-Aug-2017 WARN Tenant: core
15:18:04,418 11-Aug-2017 WARN Service ID: NULL
15:18:04,418 11-Aug-2017 WARN Deployment ID: b41ad0ec-bc74-4bb3-85b6-7ef430074187
15:18:04,418 11-Aug-2017 WARN Deployment name: vnfd1-deployment-1.0.0-1
15:18:04,418 11-Aug-2017 WARN VM group name: s6
15:18:04,418 11-Aug-2017 WARN VM Source:
15:18:04,418 11-Aug-2017 WARN VM ID: 4d6b1b6f-6137-4e8e-b61c-66d5fb59ba0d
15:18:04,418 11-Aug-2017 WARN Host ID:
20b7df6d083651eb04f1f014e8a4958ddf9c1654cb3ad9057adc7e73
15:18:04,418 11-Aug-2017 WARN Host Name: ultram-rcdnlab-compute-4.localdomain
15:18:04,418 11-Aug-2017 WARN [DEBUG-ONLY] VM IP: 10.10.10.9; 172.16.180.22; 192.168.1.12;
15:18:04,418 11-Aug-2017 WARN ===== SEND NOTIFICATION ENDS =====
```

## Oplossing

1. Schakel de computer in met de Aan/uit-knop en wacht tot de hypervisor omhoog komt:

```
[root@ultram-ospd ~]# su - stack
```

```
[stack@ultram-ospd ~]$ source stackrc
```

```
[stack@ultram-ospd ~]$ nova hypervisor-list
```

```

+----+-----+-----+-----+
| ID | Hypervisor hostname          | State | Status |
+----+-----+-----+-----+
| 3  | ultram-rcdnlab-compute-10.localdomain | up    | enabled |
| 6  | ultram-rcdnlab-compute-5.localdomain  | up    | enabled |
| 9  | ultram-rcdnlab-compute-6.localdomain  | up    | enabled |
| 12 | ultram-rcdnlab-compute-3.localdomain   | up    | enabled |
| 15 | ultram-rcdnlab-compute-9.localdomain   | up    | enabled |
| 18 | ultram-rcdnlab-compute-1.localdomain   | up    | enabled |
| 21 | ultram-rcdnlab-compute-8.localdomain   | up    | enabled |
| 24 | ultram-rcdnlab-compute-4.localdomain   | down  | enabled |
| 27 | ultram-rcdnlab-compute-7.localdomain   | up    | enabled |
| 30 | ultram-rcdnlab-compute-2.localdomain   | up    | enabled |
| 33 | ultram-rcdnlab-compute-0.localdomain   | up    | enabled |
+----+-----+-----+-----+

```

```
[stack@ultram-ospd ~]$ nova hypervisor-list
```

```

+----+-----+-----+-----+
| ID | Hypervisor hostname          | State | Status |
+----+-----+-----+-----+
| 3  | ultram-rcdnlab-compute-10.localdomain | up    | enabled |
| 6  | ultram-rcdnlab-compute-5.localdomain  | up    | enabled |
| 9  | ultram-rcdnlab-compute-6.localdomain  | up    | enabled |
| 12 | ultram-rcdnlab-compute-3.localdomain   | up    | enabled |
| 15 | ultram-rcdnlab-compute-9.localdomain   | up    | enabled |
| 18 | ultram-rcdnlab-compute-1.localdomain   | up    | enabled |
| 21 | ultram-rcdnlab-compute-8.localdomain   | up    | enabled |
| 24 | ultram-rcdnlab-compute-4.localdomain   | up    | enabled |
| 27 | ultram-rcdnlab-compute-7.localdomain   | up    | enabled |
| 30 | ultram-rcdnlab-compute-2.localdomain   | up    | enabled |
| 33 | ultram-rcdnlab-compute-0.localdomain   | up    | enabled |

```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

## 2. Instantie-ID in Nova-lijst identificeren:

```
[root@ultram-ospd ~]# su - stack
[stack@ultram-ospd ~]$ source corerc

[stack@ultram-ospd ~]$ nova list | grep ERROR

| 085baf6a-02bf-4190-ac38-bbb33350b941 | vnf1-deployment_s6_0_e03f87f5-63b6-4053-8d0f-0c9df963162c | ERROR | - | NOSTATE |
```

## 3. Start handmatig herstel op ESC met de CLI en exemplaar-ID uit vorige stap:

```
[admin@ultram-vmfml-esc-0 ~]$ cd /opt/cisco/esc/esc-confd/esc-cli

[admin@ultram-vmfml-esc-0 esc-cli]$ ./esc_nc_cli recovery-vm-action DO vnf1-deployment_s6_0_e03f87f5-63b6-4053-8d0f-0c9df963162c

Recovery VM Action

/opt/cisco/esc/confd/bin/netconf-console --port=830 --host=127.0.0.1 --user=admin --privKeyFile=/home/admin/.ssh/confd_id_dsa --privKeyType=dsa --rpc=/tmp/esc_nc_cli.hZsdLQ2Mle

<?xml version="1.0" encoding="UTF-8"?>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">

  <ok/>

</rpc-reply>
```

## 4. Controleer logbestanden, OpenStack Horizon om te bevestigen dat de instantie is hersteld:

```
[admin@ultram-vmfml-esc-0 ~]$ tail -f /var/log/esc/yangesc.log

16:41:54,445 11-Aug-2017 INFO ===== RECOVERY VM ACTION REQUEST RECEIVED =====
16:41:54,445 11-Aug-2017 INFO Type: DO
16:41:54,445 11-Aug-2017 INFO Recovery VM name: vnf1-deployment_s6_0_e03f87f5-63b6-4053-8d0f-0c9df963162c
16:41:58,092 11-Aug-2017 INFO ===== RECOVERY VM ACTION REQUEST ACCEPTED =====
16:41:58,673 11-Aug-2017 WARN
16:41:58,673 11-Aug-2017 WARN ===== SEND NOTIFICATION STARTS =====
16:41:58,674 11-Aug-2017 WARN Type: VM_RECOVERY_INIT
16:41:58,674 11-Aug-2017 WARN Status: SUCCESS
16:41:58,674 11-Aug-2017 WARN Status Code: 200
16:41:58,674 11-Aug-2017 WARN Status Msg: Recovery event for VM [vnf1-deployment_s6_0_e03f87f5-63b6-4053-8d0f-0c9df963162c] triggered.
16:41:58,674 11-Aug-2017 WARN Tenant: core
16:41:58,674 11-Aug-2017 WARN Service ID: NULL
16:41:58,674 11-Aug-2017 WARN Deployment ID: b41ad0ec-bc74-4bb3-85b6-7ef430074187
16:41:58,674 11-Aug-2017 WARN Deployment name: vnf1-deployment-1.0.0-1
16:41:58,674 11-Aug-2017 WARN VM group name: s6
16:41:58,674 11-Aug-2017 WARN VM Source:
16:41:58,674 11-Aug-2017 WARN VM ID: 085baf6a-02bf-4190-ac38-bbb33350b941
```

16:41:58,674 11-Aug-2017 WARN Host ID:  
16:41:58,674 11-Aug-2017 WARN Host Name:  
16:41:58,674 11-Aug-2017 WARN [DEBUG-ONLY] VM IP: 10.10.10.9; 172.16.180.22; 192.168.1.12;  
16:41:58,674 11-Aug-2017 WARN ===== SEND NOTIFICATION ENDS =====  
16:42:19,794 11-Aug-2017 WARN  
16:42:19,794 11-Aug-2017 WARN ===== SEND NOTIFICATION STARTS =====  
16:42:19,794 11-Aug-2017 WARN Type: VM\_RECOVERY\_REBOOT  
16:42:19,794 11-Aug-2017 WARN Status: FAILURE  
16:42:19,794 11-Aug-2017 WARN Status Code: 500  
16:42:19,794 11-Aug-2017 WARN Status Msg: VM [vnfd1-deployment\_s6\_0\_e03f87f5-63b6-4053-8d0f-0c9df963162c] failed to be rebooted.  
16:42:19,794 11-Aug-2017 WARN Tenant: core  
16:42:19,795 11-Aug-2017 WARN Service ID: NULL  
16:42:19,795 11-Aug-2017 WARN Deployment ID: b41ad0ec-bc74-4bb3-85b6-7ef430074187  
16:42:19,795 11-Aug-2017 WARN Deployment name: vnfd1-deployment-1.0.0-1  
16:42:19,795 11-Aug-2017 WARN VM group name: s6  
16:42:19,795 11-Aug-2017 WARN VM Source:  
16:42:19,795 11-Aug-2017 WARN VM ID: 085baf6a-02bf-4190-ac38-bbb33350b941  
16:42:19,795 11-Aug-2017 WARN Host ID:  
16:42:19,795 11-Aug-2017 WARN Host Name:  
16:42:19,795 11-Aug-2017 WARN [DEBUG-ONLY] VM IP: 10.10.10.9; 172.16.180.22; 192.168.1.12;  
16:42:19,795 11-Aug-2017 WARN ===== SEND NOTIFICATION ENDS =====  
16:42:32,013 11-Aug-2017 WARN  
16:42:32,013 11-Aug-2017 WARN ===== SEND NOTIFICATION STARTS =====  
16:42:32,013 11-Aug-2017 WARN Type: VM\_RECOVERY\_UNDEPLOYED  
16:42:32,013 11-Aug-2017 WARN Status: SUCCESS  
16:42:32,013 11-Aug-2017 WARN Status Code: 204  
16:42:32,013 11-Aug-2017 WARN Status Msg: VM [vnfd1-deployment\_s6\_0\_e03f87f5-63b6-4053-8d0f-0c9df963162c] has been undeployed.  
16:42:32,013 11-Aug-2017 WARN Tenant: core  
16:42:32,014 11-Aug-2017 WARN Service ID: NULL  
16:42:32,014 11-Aug-2017 WARN Deployment ID: b41ad0ec-bc74-4bb3-85b6-7ef430074187  
16:42:32,014 11-Aug-2017 WARN Deployment name: vnfd1-deployment-1.0.0-1  
16:42:32,014 11-Aug-2017 WARN VM group name: s6  
16:42:32,014 11-Aug-2017 WARN VM Source:  
16:42:32,014 11-Aug-2017 WARN VM ID: 085baf6a-02bf-4190-ac38-bbb33350b941  
16:42:32,014 11-Aug-2017 WARN Host ID:  
16:42:32,014 11-Aug-2017 WARN Host Name:  
16:42:32,014 11-Aug-2017 WARN [DEBUG-ONLY] VM IP: 10.10.10.9; 172.16.180.22; 192.168.1.12;  
16:42:32,014 11-Aug-2017 WARN ===== SEND NOTIFICATION ENDS =====  
16:43:13,643 11-Aug-2017 WARN  
16:43:13,643 11-Aug-2017 WARN ===== SEND NOTIFICATION STARTS =====  
16:43:13,643 11-Aug-2017 WARN Type: VM\_RECOVERY\_DEPLOYED  
16:43:13,643 11-Aug-2017 WARN Status: SUCCESS  
16:43:13,643 11-Aug-2017 WARN Status Code: 200  
16:43:13,643 11-Aug-2017 WARN Status Msg: VM [vnfd1-deployment\_s6\_0\_e03f87f5-63b6-4053-8d0f-0c9df963162c] has been deployed as part of recovery.  
16:43:13,643 11-Aug-2017 WARN Tenant: core  
16:43:13,643 11-Aug-2017 WARN Service ID: NULL  
16:43:13,643 11-Aug-2017 WARN Deployment ID: b41ad0ec-bc74-4bb3-85b6-7ef430074187  
16:43:13,643 11-Aug-2017 WARN Deployment name: vnfd1-deployment-1.0.0-1  
16:43:13,643 11-Aug-2017 WARN VM group name: s6  
16:43:13,643 11-Aug-2017 WARN VM Source:  
16:43:13,643 11-Aug-2017 WARN VM ID: 085baf6a-02bf-4190-ac38-bbb33350b941  
16:43:13,643 11-Aug-2017 WARN Host ID:  
16:43:13,643 11-Aug-2017 WARN Host Name:  
16:43:13,643 11-Aug-2017 WARN [DEBUG-ONLY] VM IP: 10.10.10.9; 172.16.180.22; 192.168.1.12;  
16:43:13,643 11-Aug-2017 WARN VM Target:  
16:43:13,644 11-Aug-2017 WARN VM ID: a313e8dc-3b0f-4b41-8648-f9b9419bc826  
16:43:13,644 11-Aug-2017 WARN Host ID:  
20b7df6d083651eb04f1f014e8a4958ddf9c1654cb3ad9057adc7e73  
16:43:13,644 11-Aug-2017 WARN Host Name: ultram-rcdnlab-compute-4.localdomain  
16:43:13,644 11-Aug-2017 WARN [DEBUG-ONLY] VM IP: 10.10.10.9; 172.16.180.22; 192.168.1.12;  
16:43:13,644 11-Aug-2017 WARN ===== SEND NOTIFICATION ENDS =====



```

16:43:33,827 11-Aug-2017 WARN
16:43:33,827 11-Aug-2017 WARN ===== SEND NOTIFICATION STARTS =====
16:43:33,827 11-Aug-2017 WARN Type: VM_RECOVERY_COMPLETE
16:43:33,827 11-Aug-2017 WARN Status: SUCCESS
16:43:33,827 11-Aug-2017 WARN Status Code: 200
16:43:33,827 11-Aug-2017 WARN Status Msg: Recovery: Successfully recovered VM [vnfd1-
deployment_s6_0_e03f87f5-63b6-4053-8d0f-0c9df963162c].
16:43:33,827 11-Aug-2017 WARN Tenant: core
16:43:33,827 11-Aug-2017 WARN Service ID: NULL
16:43:33,828 11-Aug-2017 WARN Deployment ID: b41ad0ec-bc74-4bb3-85b6-7ef430074187
16:43:33,828 11-Aug-2017 WARN Deployment name: vnfd1-deployment-1.0.0-1
16:43:33,828 11-Aug-2017 WARN VM group name: s6
16:43:33,828 11-Aug-2017 WARN VM Source:
16:43:33,828 11-Aug-2017 WARN     VM ID: 085baf6a-02bf-4190-ac38-bbb33350b941
16:43:33,828 11-Aug-2017 WARN     Host ID:
16:43:33,828 11-Aug-2017 WARN     Host Name:
16:43:33,828 11-Aug-2017 WARN     [DEBUG-ONLY] VM IP: 10.10.10.9; 172.16.180.22; 192.168.1.12;
16:43:33,828 11-Aug-2017 WARN VM Target:
16:43:33,828 11-Aug-2017 WARN     VM ID: a313e8dc-3b0f-4b41-8648-f9b9419bc826
16:43:33,828 11-Aug-2017 WARN     Host ID:
20b7df6d083651eb04f1f014e8a4958ddf9c1654cb3ad9057adc7e73
16:43:33,828 11-Aug-2017 WARN     Host Name: ultram-rcdnlab-compute-4.localdomain
16:43:33,828 11-Aug-2017 WARN     [DEBUG-ONLY] VM IP: 10.10.10.9; 172.16.180.22; 192.168.1.12;
16:43:33,828 11-Aug-2017 WARN ===== SEND NOTIFICATION ENDS =====

```

```
[local]rcdn-ulram-lab# show card table
```

Slot	Card Type	Oper State	SPOF	Attach
1: CFC	Control Function Virtual Card	Standby	-	
2: CFC	Control Function Virtual Card	Active	No	
3: FC	1-Port Service Function Virtual Card	Active	No	
4: FC	1-Port Service Function Virtual Card	Active	No	
5: FC	1-Port Service Function Virtual Card	Standby	-	
6: FC	1-Port Service Function Virtual Card	Active	No	
7: FC	1-Port Service Function Virtual Card	Active	No	

```
[local]rcdn-ulram-lab#
```