

Backing Up Deployment Information

This chapter provides information on the following topics:

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- Backup UAS ConfD Databases, on page 5
- Collect Logs, on page 6
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Overview

Prior to performing a deployment deactivation (e.g. as part of an upgrade or downgrade process), it is highly recommended that you make backup copies of key information.

To backup this information:

- 1. Identify Component IP Addresses, on page 1.
- 2. Backup Configuration Files, on page 4.
- **3.** Backup UAS ConfD Databases, on page 5.
- 4. Collect Logs, on page 6
- 5. Collect Charging Detail Records, on page 6.

Identify Component IP Addresses

To collect the HA-VIP, and floating IP addresses for UAS, ESC, UEM, and CF:

- **1.** Log on to the server on which OSP-D is running.
- **2.** Source the "stack namerc-core" file.

```
source ~/<stack name>rc-core
```

3. Obtain the floating IP for CF and UEM VMs.

neutron floatingip-list

Example command output:

t			-			
id		1	fixed ip address	-	floating ip address	1
port_id	1					
22936d62-d086-4658-acfc-51		ı	172.168.20.13	1	10.169.126.155	
a9489513-9bec-449b-a1f8-0248						
2fc42615-5254-44ec-af5a-a1			172.168.20.5		10.169.126.145	1
6a170e76-bb05-4cb9-b09e-e94b					10 160 106 140	
38a53400-346e-4e12-96b6-98	9icad/5ab3 	-			10.169.126.149	1
70be87df-97db-4d53-b603-2e	fb7cfd4a6c	I			10.169.126.154	1
72205ae8-c905-4705-a67f-a9		I	172.168.20.101		10.169.126.144	1
1088cc88-3e95-4751-a092-e2f6						
780e652c-3ee7-47c3-ad25-f1			172.16.182.6		10.169.126.140	
186730b-be55-4404-9a5a-8474						
871825f2-5d30-4a34-baec-3ba			172.168.10.11		10.169.126.143	
c416552e-5f41-4dbe-bbd1-6a9e			450 460 40 40		10 100 100 110	
89c1784d-a8a5-4e91-835c-d4			172.168.10.13		10.169.126.147	
78afdd69-5f86-48c7-84c0-a10d					10 100 100 110	
89d6c6ac-bf12-45b9-ae52-7f6	d2a20a2838 I	-		١	10.169.126.146	l
a501bec3-d87f-47de-8e11-f5	ce903ea1fe	I		I	10.169.126.157	1
f6ff9566-1514-4d55-b09d-80	0c19906d9e	1	172.168.10.7	-	10.169.126.142	
dde1fe31-e278-443f-bd5e-f434	edefe14e					
f8c131b5-a5d6-400e-8936-c4	07504208da		172.16.182.11		10.169.126.139	
aff0efca-cef0-4852-bdb4-9b1fa	a5ca373f					
f963b405-3586-4ab2-8815-b7			172.168.10.101		10.169.126.141	
2a3ab817-9939-45a9-8774-e062	ea/43871					
			1			

4. Obtain the AutoDeploy address.

nova list | grep auto-deploy

5. Log on to the AutoDeploy VM as the default user, *ubuntu*.

```
ssh ubuntu@<ad_vm_address>
```

6. Switch to the *root* user.

sudo su

7. Enter the ConfD CLI.

```
confd_cli -C -u admin
```

- **8.** Enter the *admin* user password when prompted.
- **9.** Find the deployment details from AutoDeploy:

show service-deployment <deployment_name> siter autovnfr

Example command output:

```
siter LBUCS002
autovnfr LBPCF100-UAS
endpoint-info ip-address 10.169.126.141
endpoint-info port 2022
status alive
vnfmr LBPCF100-ESC
```

```
endpoint-info ip-address 172.168.10.7
  endpoint-info port 830
 status alive
 vnfr LBPCF100-VNF
 status alive
  vnf-deploymentr LBPCF100-DEPLOYMENT
  em-endpoint-info ip-address 172.168.10.11
  em-endpoint-info port 2022
autovnfr LBPGW100-UAS
endpoint-info ip-address 10.169.126.144
endpoint-info port 2022
 status alive
 vnfmr LBPGW100-ESC
 endpoint-info ip-address 172.168.20.5
 endpoint-info port 830
 status alive
 vnfr LBPGW100-VNF
 status alive
  vnf-deploymentr LBPGW100-DEPLOYMENT
   em-endpoint-info ip-address 172.168.20.12
```

Record the UAS IP address for each VNF as highlighted in the command output example.

10. Log on to the master AutoVNF VM as the default user, *ubuntu*.

```
ssh ubuntu@<ad vm address>
```

11. Switch to the *root* user.

sudo su

12. Enter the ConfD CLI.

```
confd cli -C -u admin
```

- **13.** Enter the *admin* user password when prompted.
- **14.** Collect the VIP address for ESC.

In releases prior to 6.0:

show autovnf-oper:vnfm

Example output:

```
autovnf-oper:vnfm vnfmd state alive version 3.1.0.94 transaction-id 1507961257-916914 ha-vip 30.30.62.7 vnfc-instance vnfmd-ESC compute-host tblano-compute-7.localdomain interfaces autovnfd-uas-management ip-address 30.30.61.17 mac-address fa:16:3e:3d:be:31 interfaces autovnfd-uas-orchestration ip-address 30.30.62.7 mac-address fa:16:3e:68:8e:15
```

In 6.0 and later releases:

show vnfr

For an example output, see the Example show vnfr Command Output.

15. Collect the VIP address for the UEM and CF.

show autovnf-oper:vip-port

Example output:

vip-port vnfd-deployment vnf-deployment transaction-id 1508009048-329005 port autovnfd-uas-management-30.30.61.103 network autovnfd-uas-management ha-vip 30.30.61.103 vdu-ref element-manager port autovnfd-uas-management-30.30.61.104 network autovnfd-uas-management ha-vip 30.30.61.104 vdu-ref control-function vip-port vnfmd vnfm-deployment transaction-id 1507961257-916914 port vnfmd-ESC-vip network autovnfd-uas-management ha-vip 30.30.62.7 vdu-ref esc

In 6.0 and later releases:

show vnfr

For an example output, see the Example show vnfr Command Output.

16. Repeat 15, on page 3 for each VNF-UAS.

Backup Configuration Files

Backing up configuration files involves using SFTP to download copies of these files to a backup directory on a remote server.



Important

If SFTP to any of the VMs fails, then remove the respective entry from the *known_hosts* file under .ssh directory and retry.

To backup the configuration files:

- 1. Create a backup directory, if one does not already exist.
- 2. SFTP the Day 0 configuration called *system.cfg* from each UGP-based VNF to the backup directory.
- **3.** SFTP the latest Day N configuration file from each UGP-based VNF to the backup directory.

The Day N configuration file specifies the configuration of the various gateway and services deployed on the UGP.



Important

UGP-based VNF Day N configuration can also be obtained by logging in to the CF and logging the output of the **show configuration** command. In addition, password information saved in this file is encrypted. Prior to re-applying this configuration to the upgraded/redeployed VNF, you'll need to manually reconfigure the unencrypted passwords in the configuration file.

4. Collect the output of the **show support details** command for each VNF.

5. SFTP the latest AutoDeploy configuration file from the AutoDeploy VM to the backup directory.



Important

You'll need to log in to the AutoDeploy VM using the credentials for the user *unbuntu*.

6. SFTP the latest AutoVNF configuration file from the master AutoVNF VM to the backup directory.



Important

You'll need to log in to the AutoVNF VM using the credentials for the user *unbuntu*.

- 7. SFTP the latest VIM Orchestrator configuration file from the AutoDeploy VM to the backup directory.
- 8. SFTP the latest VIM configuration file from the AutoDeploy VM to the backup directory.

Backup UAS ConfD Databases

Backing up ConfD databases (CDBs) is done on the UAS software role VMs and involves copying the databased files to a secure location.

AutoDeploy CDB:

Copy the contents of the /opt/cisco/usp/uas/confd-6.3.1/var/confd/cdb directory.

Example directory contents:

AutoIT CDB

Copy the contents of the /opt/cisco/usp/uas/confd-6.3.1/var/confd/cdb directory.

Example directory contents:

```
total 884
drwxr-xr-x 2 root root 4096 Sep 14 18:55 ./
drwxr-xr-x 8 root root 4096 Sep 11 21:56 ../
-rw-r--r- 1 root root 10234 Sep 12 18:34 aaa_init.xml
-rw-r--r- 1 root root 7092 Sep 14 18:56 A.cdb
-rw-r--r- 1 root root 857637 Sep 12 18:34 C.cdb
-rw-r--r- 1 root root 16363 Sep 14 18:56 O.cdb
```

AutoVNF

Copy the contents of the /opt/cisco/usp/uas/confd-6.3.1/var/confd/cdb directory.

Example directory contents:

```
total 1232
drwxr-xr-x 2 root root 4096 Oct 4 05:39 ./
```

Collect Logs

Prior to deactivating any part of the deployment, it is recommended that you collect logs from the different components that comprise the USP-based VNF and transfer them to a remote backup server.

• **AutoDeploy Logs:** Refer to Viewing AutoDeploy Logs for information on the logs to collect and their locations.

It is recommended that you copy autodeploy.log to autodeply_beforedeactivation.log and then collect logs during de-activation.

- AutoIT Logs: Refer to Viewing AutoIT Logs for information on the logs to collect and their locations. It is recommended that you copy autoit.log to autoit_beforedeactivation.log and then collect logs during de-activation.
- AutoVNF Logs: Refer to Viewing AutoVNF Logs for information on the logs to collect and their locations.

It is recommended that you copy autovnf.log to autovnf_beforedeactivation.log and then collect logs during de-activation.

- VNFM (ESC) Logs: Refer to Viewing ESC Logs for information on the logs to collect and their locations.
- **UEM Logs:** Refer to Viewing UEM Logs for information on the logs to collect and their locations.

Collect Charging Detail Records

Prior to performing an upgrade or redeployment, it is strongly recommended that you collect or backup copies of all charging detail records (CDRs).

The UGP-based VNF supports the ability to push locally-stored CDRs to a configured collection server based on user-defined intervals or criteria. Refer to the "Configuring CDR Push" section within the "HDD Storage" chapter of the GTPP Interface Administration and Reference. Select the document pertaining to your software version from those available here: https://www.cisco.com/c/en/us/support/wireless/asr-5000-series/products-installation-and-configuration-guides-list.html

Prior to initiating the VNF upgrade or redeployment, collect or backup copies of all CDRs using one of these two methods:

- Initiate a manual push of specified CDR files to the configured collection server, OR
- · Retrieve CDRs via SFTP

Instructions for using these methods is provided in the GTPP Interface Administration and Reference. Note that additional configuration may be required in order to use these methods.