

AutoVNF Ultra-M ل رشن ةداع| ءارح|

تايوتحمل

[ةمدقملا](#)

[ةقبسم تاصوحف](#)

[AutoVNF يطايتحال اءسنلا](#)

[AutoVNF رشن ةداع|](#)

[يطايتحال اءسنلا ةداعتسا](#)

[تاققحتلا ءعب](#)

ةمدقملا

ءعي Ultra-M ل وءم ي ف AutoVNF ةزيم رشن ةءاعل ءبول طملا تاو طءال اءن تسملا اءه ف صي يءرفلا (VNFM) ةيره اءلال ءكبشلا فئاطو ريءم نم لك ضرع لء نم الوؤسم AutoVNF (VNF). ةيره اءلال ءكبشلا ءفيظوو

ةقبسم تاصوحف

زاهءلا ءلاء نم ققءتو (OSPD) OpenStack ل ياساسال ماظنلا ريءم ل ل وءءلا لءس 1. ءءصلا ريرقت ي ف (VMs) يره اءلال

```
[stack@labucs300-ospd ~]$ cat /var/log/cisco/ultram-health/*.report | grep -i xxx
```

```
[stack@labucs300-ospd ~]$ cat /var/log/cisco/ultram-health/ultram_health_uas.report
```

```
----- VNF-ID/VNFD-ID | UAS Node | Status| Error Info, if any -----  
-----  
10.10.10.40/LABPGW300-UAS | autovnf | :- ) | LABPGW300-UAS:(alive) | | | labucs300-UAS-LABPGW300-  
UAS-core-UAS2-2:(alive) | | | labucs300-UAS-LABPGW300-UAS-core-UAS2-1:(alive)  
10.10.10.40/LABPCF300-UAS | autovnf | :- ) | LABPCF300-UAS:(alive) | | | labucs300-UAS-LABPCF300-  
UAS-core-UAS1-2:(alive) | | | labucs300-UAS-LABPCF300-UAS-core-UAS1-1:(alive)  
10.10.10.45/LABPCF300-UGP | vnf-em | :- ) | LABPCF300-UGP:(alive) | | | LABPCF300-LABPCF300-UGP-  
core-EM1-3:(alive) | | | LABPCF300-LABPCF300-UGP-core-EM1-2:(alive) | | | LABPCF300-LABPCF300-  
UGP-core-EM1-1:(alive) 10.10.10.45/LABPCF300-ESC | esc | :- ) | LABPCF300-ESC:(alive) | | |  
LABPCF300-LABPCF300-ESC-core-ESC1-1:(alive) | | | LABPCF300-LABPCF300-ESC-core-ESC1-2:(alive)  
10.10.10.45/LABPCF300-UGP | vnf | :- ) | LABPCF300-UGP:(alive) | | | LABPCF300-LABPCF300-UGP-  
core-LABPCF300-CF-VDU-1:(alive) | | | LABPCF300-LABPCF300-UGP-core-LABPCF300-CF-VDU-0:(alive) |  
| | | LABPCF300-LABPCF300-UGP-core-LABPCF300-SF-VDU-3:(alive) | | | LABPCF300-LABPCF300-UGP-core-  
LABPCF300-SF-VDU-2:(alive) | | | LABPCF300-LABPCF300-UGP-core-LABPCF300-SF-VDU-1:(alive) | | |  
LABPCF300-LABPCF300-UGP-core-LABPCF300-SF-VDU-0:(alive) | | | LABPCF300-LABPCF300-UGP-core-  
LABPCF300-SF-VDU-6:(alive) | | | LABPCF300-LABPCF300-UGP-core-LABPCF300-SF-VDU-5:(alive) | | |  
LABPCF300-LABPCF300-UGP-core-LABPCF300-SF-VDU-4:(alive) 10.10.10.48/LABPGW300-UGP | vnf-em | :- )  
| LABPGW300-UGP:(alive) | | | LABPGW300-LABPGW300-UGP-core-EM2-2:(alive) | | | LABPGW300-  
LABPGW300-UGP-core-EM2-3:(alive) | | | LABPGW300-LABPGW300-UGP-core-EM2-1:(alive)  
10.10.10.48/LABPGW300-ESC | esc | :- ) | LABPGW300-ESC:(alive) | | | LABPGW300-LABPGW300-ESC-  
core-ESC2-1:(alive) | | | LABPGW300-LABPGW300-ESC-core-ESC2-2:(alive) 10.10.10.48/LABPGW300-UGP  
| vnf | :- ) | LABPGW300-UGP:(alive) | | | LABPGW300-LABPGW300-UGP-core-LABPGW300-SF-VDU-  
4:(alive) | | | LABPGW300-LABPGW300-UGP-core-LABPGW300-SF-VDU-5:(alive) | | | LABPGW300-  
LABPGW300-UGP-core-LABPGW300-SF-VDU-6:(alive) | | | LABPGW300-LABPGW300-UGP-core-LABPGW300-SF-  
VDU-0:(alive) | | | LABPGW300-LABPGW300-UGP-core-LABPGW300-SF-VDU-1:(alive) | | | LABPGW300-  
LABPGW300-UGP-core-LABPGW300-SF-VDU-2:(alive) | | | LABPGW300-LABPGW300-UGP-core-LABPGW300-SF-
```


- Syslog نيوكت

يلع طيشنت اغل/طيشنت يا لبق يطايت حال خسننلا تاي لمع عارج | بجي :م ا ه
يطايت حال خسننلا م داخ ي ل ه ل ي م ح ت و د ح م ل ا ع ق و م ل /POD

1. في يوناتل او يساس ال AutoIT نم لك يلع ON يلع HA_DEBUG ني ي ع ت
/opt/uas_baseconfig.txt.

ليغشنتل فاق ي | و ا ليغشنتل دي ق ا م ا . ل ا م ل ا س ا ر ل ك ي ه HA_DEBUG ة م ا ل ع : ة ط ح ا ل م

```
ubuntu@labucs300-autoit-2:~$ vi /opt/uas_baseconfig.txt
ha: true
ha-vip: 172.16.181.7
ha-secret: f99d04acb84807c4c6c6c0eaad392b5c
orch-ips: 172.16.181.5,172.16.181.8
orch-intf: eth0
prov-ha-vip: 172.16.181.13
prov-intf: eth0
profile: AUTOIT
ha_debug: ON
```

```
ubuntu@labucs300-autoit-1:~$ vi /opt/uas_baseconfig.txt
ha: true
ha-vip: 172.16.181.7
ha-secret: f99d04acb84807c4c6c6c0eaad392b5c
orch-ips: 172.16.181.5,172.16.181.8
orch-intf: eth0
prov-ha-vip: 172.16.181.13
prov-intf: eth0
profile: AUTOIT
ha_debug: ON
```

2. ة ي ل ل ا ل ر م ا و ا ل ا م ا د خ ت س ا ب ي س ا س ا ل AutoIT يلع AutoIT ة م د خ ف ا ق ي ا ب م ق .

```
ssh ubuntu@ < AutoIT Floating IP>
sudo -i
service autoit stop
```

ع د ب د ن ع (UAS) ة ق ئ ا ف ا ل ا ة م ت ا ل ا ت ا م د خ ل ي ئ ا ق ل ل ا ل ا د ا ر ت س ا ل ا ل ي غ ش ت ن م AutoIT ع ن م ل ا ذ ه و
ة ق ح ا ل ل ا ت ا و ط خ ل ا ي ف ل ي غ ش ت ل ا ف ا ق ي ا .

```
ubuntu@labucs300-autoit-2:~$ sudo -i
root@labucs300-autoit-2:~#
root@labucs300-autoit-2:~# service autoit status
autoit start/running, process 25001
root@labucs300-autoit-2:~# service autoit stop
```

3. ف ل م ل ا ي ف ي و ن ا ت ل ا و ي س ا س ا ل (UAS) AutoVNF نم لك يلع ON يلع ha_debug ني ي ع ت ب م ق .
/opt/uas_baseconfig.txt.

```
ubuntu@labucs300-uas-LABPGW300-uas-core-uas2-2:~$ vi /opt/uas_baseconfig.txt
ha: true
ha-vip: 192.0.2.8
ha-secret: d5a9fee60ddae4fe357677dcf1320e51
orch-ips: 192.0.2.15,192.0.2.17
orch-intf: eth0
```

```
profile: AUTOVNF
ha_debug: ON
```

```
ubuntu@labucs300-uas-LABPGW300-uas-core-uas2-2:~$ ssh ubuntu@192.0.2.15
ubuntu@labucs300-uas-LABPGW300-uas-core-uas2-1:~$ cat /opt/uas_baseconfig.txt
ha: true
ha-vip: 192.0.2.8
ha-secret: d5a9fee60ddae4fe357677dcf1320e51
orch-ips: 192.0.2.15,192.0.2.17
orch-intf: eth0
profile: AUTOVNF
ha_debug: ON
```

4. اناثال عم OSPD نم ةيوناثال UAS تادحو لى غشت فاقيا.

```
. corerc ; openstack server stop <VMName>

labucs300-UAS-LABPGW300-UAS-core-UAS2-2 -> VNF2-UAS-VIP Primary
labucs300-UAS-LABPGW300-UAS-core-UAS2-1 -> Secondary

[stack@labucs300-ospd ~]$ nova list | grep LABPGW300-UAS-core-UAS2
| 8608fda4-b763-4753-95ff-2e07852098e3 | labucs300-UAS-LABPGW300-UAS-core-UAS2-1 | ACTIVE | - |
Running | labucs300-UAS-LABPGW300-ORCH-NW=192.0.2.15; labucs300-UAS-LABPGW300-MGMT-NW=192.0.2.7
|
| 19f4496c-3907-4ea5-84c9-e5a6ef222392 | labucs300-UAS-LABPGW300-UAS-core-UAS2-2 | ACTIVE | - |
Running | labucs300-UAS-LABPGW300-ORCH-NW=192.0.2.17; labucs300-UAS-LABPGW300-MGMT-NW=192.0.2.16

[stack@labucs300-ospd ~]$. corerc ; openstack server stop labucs300-UAS-LABPGW300-UAS-core-UAS2-1
```

5. ةيوناثال رماوال مادختساب UAS لى ع AutoVNF و UAS-ConfD تامدخ فاقيا ب مق.

```
service uas-confd stop
service autovnf stop

ubuntu@labucs300-uas-LABPGW300-uas-core-uas2-2:~$ sudo -i
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# service uas-confd status
uas-confd start/running, process 1305
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# service autovnf status
autovnf start/running, process 24208
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# service uas-confd stop
uas-confd stop/waiting
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# service autovnf stop
autovnf stop/waiting
```

6. خسن مداخ لى اها خسن و UAS CONF تانايب ةدع اقل ي طاي تحا خسن ةي لمع اراج ب مق.

```
cd /opt/cisco/usp/uas/confd-latest/var/confd/
tar -cvf <pod>_<VNF>_UAS_cdb_backup.tar cdb/

root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# cd /opt/cisco/usp/uas/confd-latest/var/confd/
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# tar -cvf Autovnf_cdb_backup.tar cdb/
cdb/
cdb/O.cdb
cdb/C.cdb
cdb/aaa_init.xml
cdb/A.cdb
root@labucs300-uas-LABPGW300-uas-core-uas2-2:/opt/cisco/usp/uas/confd-latest/var/confd# ll
Autovnf_cdb_backup_cdb_backup.tar
total 1612
```

```

drwxr-xr-x 3 root root 4096 Jan 24 2017 ..
drwxr-xr-x 2 root root 4096 Jan 24 2017 log
drwxr-xr-x 8 root root 4096 Oct 11 11:30 webui
drwxr-xr-x 2 root root 4096 Oct 19 19:18 candidate
drwxr-xr-x 2 root root 4096 Oct 23 13:00 rollback
drwxr-xr-x 2 root root 4096 Oct 28 17:00 cdb
drwxr-xr-x 3 root root 4096 Oct 28 17:00 state
drwxr-xr-x 8 root root 4096 Oct 31 18:00 .
-rw-r--r-- 1 root root 1617920 Oct 31 18:00 Autovnf_cdb_backup.tar

```

7. ةيلات رماوآل مادختساب UAS و AutoVNF تامدخ ليغشت ةداعإ:

```

service uas-confd start
service autovnf start

```

```

root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# service uas-confd start
uas-confd start/running, process 13852
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# service autovnf start
autovnf start/running, process 13853

```

8. ةيلات رماوآل مادختساب OSPD نم ةيوناثلا UAS تادحو ليغشت ةداعإ مق:

```
. corerc ; openstack server start <VMName>
```

```
[stack@labucs300-ospd ~]$. corerc ; openstack server start labucs300-UAS-LABPGW300-UAS-core-UAS2-1
```

9. show uas رماوآل ي فءايحأك ةيوناثلاو ةيساسال UAS تادحو نم لك روهظ نم دكأت:

```

ubuntu@labucs300-uas-LABPGW300-uas-core-uas2-2:~$ sudo -i
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# confd_cli -u admin -C
Welcome to the ConfD CLI
admin connected from 127.0.0.1 using console on labucs300-uas-LABPGW300-uas-core-uas2-2
labucs300-uas-LABPGW300-uas-core-uas2-2#show uas
uas version 6.2.0
uas state active
uas external-connection-point 192.0.2.8
INSTANCE IP STATE ROLE
-----
0.0.0.0 error CONFID-Secondary
192.0.2.15 alive CONFID-Secondary
192.0.2.17 alive CONFID-Primary

```

10. ةيوناثلاو ةيساسال AutoVNF نم لك يلع ليغشتلا فاقول يلا ha_debug ريغتب مق:

```

ubuntu@labucs300-uas-LABPGW300-uas-core-uas2-2:~$ vi /opt/uas_baseconfig.txt
ha: true
ha-vip: 192.0.2.8
ha-secret: d5a9fee60ddae4fe357677dcf1320e51
orch-ips: 192.0.2.15,192.0.2.17
orch-intf: eth0
profile: AUTOVNF
ha_debug: OFF
ubuntu@labucs300-uas-LABPGW300-uas-core-uas2-2:~$ ssh ubuntu@192.0.2.15
ubuntu@labucs300-uas-LABPGW300-uas-core-uas2-1:~$ cat /opt/uas_baseconfig.txt
ha: true
ha-vip: 192.0.2.8
ha-secret: d5a9fee60ddae4fe357677dcf1320e51

```

```
orch-ips: 192.0.2.15,192.0.2.17
orch-intf: eth0
profile: AUTOVNF
ha_debug: OFF
```

11. Service رمل م ادختساب ي اساس ال AutoIT يلع ةيئاق لتلا ةمدخلال ليغشت ةداعإب مق .
AutoIT start.

```
ubuntu@labucs300-autoit-2:~$ sudo -i
root@labucs300-autoit-2:~# service autoit start
```

12. show uas رمل م ادختساب ي ح هنا يلع يوناتل او ي اساس ال AutoIT نم لك روهظ نم ققحت .

```
ubuntu@labucs300-autoit-2:~$ sudo -i
root@labucs300-autoit-2:~# confd_cli -u admin -C
Welcome to the ConfD CLI
admin connected from 127.0.0.1 using console on labucs300-autoit-2
labucs300-autoit-2#show uas
uas version 6.2.0
uas state active
uas external-connection-point 172.16.181.7
INSTANCE IP STATE ROLE
-----
172.16.181.5 alive CONFD-Secondary
172.16.181.8 alive CONFD-Primary
```

13. يوناتل او ي اساس ال AUTOit نم لك يلع ليغشتلا فاق ي | يلى HA_DEBUG نييعتب مق .
ف /opt/uas_baseconfig.txt.

```
ubuntu@labucs300-autoit-2:~$ vi /opt/uas_baseconfig.txt
ha: true
ha-vip: 172.16.181.7
ha-secret: f99d04acb84807c4c6c6c0eaaad392b5c
orch-ips: 172.16.181.5,172.16.181.8
orch-intf: eth0
prov-ha-vip: 172.16.181.13
prov-intf: eth0
profile: AUTOIT
ha_debug: OFF
```

```
ubuntu@labucs300-autoit-1:~$ vi /opt/uas_baseconfig.txt
ha: true
ha-vip: 172.16.181.7
ha-secret: f99d04acb84807c4c6c6c0eaaad392b5c
orch-ips: 172.16.181.5,172.16.181.8
orch-intf: eth0
prov-ha-vip: 172.16.181.13
prov-intf: eth0
profile: AUTOIT
ha_debug: OFF
```

14. يطايتح | خسن م داخ يلى اهل قنو لصتملا هبش ني زختلا تادحو نم تال جسل عمج .

```
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# cd /opt/cisco/usp/uas/confd-latest/var/confd/
root@labucs300-uas-LABPGW300-uas-core-uas2-2:/opt/cisco/usp/uas/confd-latest/var/confd# cd
/opt/cisco/usp/uas/scripts/
root@labucs300-uas-LABPGW300-uas-core-uas2-2:/opt/cisco/usp/uas/scripts# sudo ./collect-uas-
logs.sh
```

```
Dumping output for show transaction in file /tmp/uas-logs/transactions.txt
Dumping output for show log in file /tmp/uas-logs/transactions.txt
Dumping output for show running-config in file /tmp/uas-logs/confd_output.txt
Dumping output for show uas in file /tmp/uas-logs/confd_output.txt
Dumping output for show usp in file /tmp/uas-logs/confd_output.txt
.....
```

15. اهل قنوت الجس لاجمجت لجأ نم ةقباسلا ةوطخلل رركو يوناتل AutoVNF لى لوخدلا لجس .
يطايتحال خسنلا مداخ لى

16. ب ةصاخلا ةيضارتفالا ةزهجال لى syslog نيوكتل يطايتحال خسن ءارجاب مق .
لىال دل هذه يف تافلما دجوت . يطايتحال خسنلا مداخ لى اهل قنوت ةيوناتل او ةيساسالا

```
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# ls /etc/rsyslog.d/00-autovnf.conf
/etc/rsyslog.d/00-autovnf.conf
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# ls /etc/rsyslog.conf
/etc/rsyslog.conf
```

17. لىع ةمدخلل يئاقلتل ادبلا رما مداختساب ةيئاقلتل ةمدخلل نيكم تب مق .
لىساسالا

```
ubuntu@labucs300-autoit-2:~$ sudo -i
root@labucs300-autoit-2:~#
root@labucs300-autoit-2:~# service autoit start
autoit start/running, process 25001
```

18. يف ليغشتلا فاقلي لى HA_DEBUG ةمالع عضو نيبيعتب مق .
AutoVNF و AutoIT لىساسالا

```
ubuntu@labucs300-uas-LABPGW300-uas-core-uas2-2:~$ vi /opt/uas_baseconfig.txt
ha: true
ha-vip: 192.0.2.8
ha-secret: d5a9fee60ddae4fe357677dcf1320e51
orch-ips: 192.0.2.15,192.0.2.17
orch-intf: eth0
profile: AUTOVNF
ha_debug: OFF
```

```
ubuntu@labucs300-autoit-2:~$ vi /opt/uas_baseconfig.txt
ha: true
ha-vip: 172.16.181.7
ha-secret: f99d04acb84807c4c6c6c0eaad392b5c
orch-ips: 172.16.181.5,172.16.181.8
orch-intf: eth0
prov-ha-vip: 172.16.181.13
prov-intf: eth0
profile: AUTOIT
ha_debug: OFF
```

19. لىع لمعت يئاقلتل AutoVNF و UAS-Confد تامدخ ديكتأت .

```
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# service uas-confd status
uas-confd start/running, process 1305
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# service autovnf status
autovnf start/running, process 24208
```

AutoVFN رشن ةداعل

1. لىثم طحالو يئاقلتل رشنلا لى لوخدلا لجس .

```

ubuntu@labucs300-autodeploy-2:~$ sudo su
root@labucs300-autodeploy-2:/home/ubuntu# confd_cli -u admin -C
Welcome to the ConfD CLI
admin connected from 127.0.0.1 using console on labucs300-autodeploy-2
labucs300-autodeploy-2#show nsr
nsr LABSGW300-instance
nsd LABSGW300
vnfr [ LABPCF300-LABPCF300-ESC LABPCF300-LABPCF300-UGP ]
vnf-package [ usp_6_2_b8 ]
vim-artifact vim_art_rack
nsr LABPGW300-instance
nsd LABPGW300
vnfr [ LABPGW300-LABPGW300-ESC LABPGW300-LABPGW300-UGP ]
vnf-package [ usp_6_2_b8 ]
vim-artifact vim_art_rack
nsr labucs300-UAS-instance
  nsd labucs300-UAS
  vnfr [ labucs300-UAS-LABPCF300-UAS labucs300-UAS-LABPGW300-UAS ]
  vnf-package [ usp_6_2_b8 ]
  vim-artifact vim_art_rack

```

2. رمأل مادختساب AutoDeploy نم AutoVNF طيشنت ءاغلإ.

```

ubuntu@labucs300-autodeploy-2:~$ /opt/cisco/usp/uas/confd-6.3.1/bin/confd_cli -u admin -C
Welcome to the ConfD CLI
admin connected from 10.10.10.10 using ssh on labucs300-autodeploy-2
labucs300-autodeploy-2#nsd:deactivate nsd-id labucs300-UAS vnf [LABPGW300-UAS]
transaction-id 1560431372-357328

```

3. ةكرحلا ةلاح ديكتأت.

```

labucs300-autodeploy-2#show transaction
DEPLOYMENT STATUS
TX ID TX TYPE ID TIMESTAMP STATUS DETAIL
-----
-----
1560431372-357328 activate-ns-deployment labucs300-UAS 2019-06-13T13:09:32.357355-00:00 in-
progress -
1560431372-357328/1560431373-102024 activate-ns-deployment labucs300-UAS 2019-06-
13T13:09:33.102041-00:00 in-progress -

```

4. ةكرحلا ةالجم لآ: LABUCS300-UAS ةالجم لآ هذه يف ةكرحلا ةالجم صرحف 1560431372-357328 و 1560431372-357328/1560431373-102024.

```

labucs300-autodeploy-2#show log 1560431372-357328 | display xml
<config xmlns="http://tail-f.com/ns/config/1.0">
<log xmlns="http://www.cisco.com/usp/nfv/usp-transaction">
<tx-id>1560431372-357328</tx-id>
<log>
2019-06-13 13:09:33,367 - Send Deployment notification for: labucs300-UAS-instance
2019-06-13 13:09:33,375 - Deployment activate-ns-deployment: labucs300-UAS started
2019-06-13 13:09:33,378 - Adding NSR: labucs300-UAS-instance
2019-06-13 13:09:33,385 - Start pipeline of 1 tasks
2019-06-13 13:09:33,390 - Scheduling Task: labucs300-UAS
2019-06-13 13:09:33,400 - Waiting for all workers to finish the transactions
2019-06-13 13:15:00,006 - Deployment activate-ns-deployment: labucs300-UAS succeeded
2019-06-13 13:15:00,020 - Send Deployment notification for: labucs300-UAS-instance
2019-06-13 13:09:33,437 - Send Deployment notification for: labucs300-UAS-instance-deploy
2019-06-13 13:09:33,441 - Deployment activate-ns-deployment: labucs300-UAS started
.....

```



```
ha-secret: f99d04acb84807c4c6c6c0eaad392b5c
orch-ips: 172.16.181.5,172.16.181.8
orch-intf: eth0
prov-ha-vip: 172.16.181.13
prov-intf: eth0
profile: AUTOIT
ha_debug: ON
```

2. دادرتسال AutoIT عنم وه ةوطخلل هذه نم ضرغلا. ايئاقلت ةيساسأل AutoIT ةمدخ فاقيا دنع. ايئاقلت UAS.

```
ubuntu@labucs300-autoit-2:~$ sudo -i
root@labucs300-autoit-2:~#
root@labucs300-autoit-2:~# service autoit status
autoit start/running, process 25001
root@labucs300-autoit-2:~# service autoit stop
```

3. في ON لى HA_DEBUG ةمالع عضو نييعت ب مق ، ةيساسأل UAS تادحو في /opt/uas_baseconfig.txt.

```
ubuntu@labucs300-uas-LABPGW300-uas-core-uas2-2:~$ vi /opt/uas_baseconfig.txt
ha: true
ha-vip: 192.0.2.8
ha-secret: d5a9fee60ddae4fe357677dcf1320e51
orch-ips: 192.0.2.15,192.0.2.17
orch-intf: eth0
profile: AUTOVNF
ha_debug: ON
```

4. في ON لى HA_DEBUG ةمالع عضو نييعت ب مق ، ةيوناثل UAS في /opt/uas_baseconfig.txt.

```
ubuntu@labucs300-uas-LABPGW300-uas-core-uas2-1:~$ cat /opt/uas_baseconfig.txt
ha: true
ha-vip: 192.0.2.8
ha-secret: d5a9fee60ddae4fe357677dcf1320e51
orch-ips: 192.0.2.15,192.0.2.17
orch-intf: eth0
profile: AUTOVNF
ha_debug: ON
```

5. OpenStack رمال مادختساب يوناثل UAS مداخ فاقيا ب مق ، OSPD لى ع.

```
labucs300-UAS-LABPGW300-UAS-core-UAS2-2 -> VNF2-UAS-VIP Primary
labucs300-UAS-LABPGW300-UAS-core-UAS2-1 -> Secondary
```

```
[stack@labucs300-ospd ~]$ corerc ; openstack server stop labucs300-UAS-LABPGW300-UAS-core-UAS2-1
```

6. UAS-ConfD ةمدخ فقوتل ةيساسأل ةمدخلل لوح.

```
ubuntu@labucs300-uas-LABPGW300-uas-core-uas2-2:~$ sudo -i
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# service uas-confd status
uas-confd start/running, process 1305
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# service uas-confd stop
uas-confd stop/waiting
```

7. هخسن مت يذل CDB فيشرا خسنا ، ةيساسأل (UAS) لصتمل هبش نيختل تادحو في /opt/cisco/usp/uas/confd-latest/var/confd/ لى ايطايتح.

```
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# cp Autovnf_cdb_backup.tar to /opt/cisco/usp/uas/confd-latest/var/confd/
```

8. CBD لي لدم ن ماضي ساس ال اتي طمن ال اذح و ا فذح ا فم ي ف.

```
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# cd /opt/cisco/usp/uas/confd-latest/var/confd/ ; rm cdb/*
```

9. ي طاي اذح ال اذح ل ل CBD فم ن م ا فم ج ر خ ت س ي ا س ال ا ف ي ف.

```
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# cd /opt/cisco/usp/uas/confd-latest/var/confd/ ; tar -xvf <archive_backup_tar_file>
```

10. OpenStack رم او ا م اذح ت س ا ب ا س ال ا ف اذح و ل OSPD دي م ت اذح ا ف ي ف.

```
[stack@labucs300-ospd ~]$ source *core
[stack@labucs300-ospd ~]$ nova list | grep LABPGW300-UAS-core-UAS2
| 8608fda4-b763-4753-95ff-2e07852098e3 | labucs300-UAS-LABPGW300-UAS-core-UAS2-1 | ACTIVE | - |
Running | labucs300-UAS-LABPGW300-ORCH-NW=192.0.2.15; labucs300-UAS-LABPGW300-MGMT-NW=192.0.2.7
|
| 19f4496c-3907-4ea5-84c9-e5a6ef222392 | labucs300-UAS-LABPGW300-UAS-core-UAS2-2 | ACTIVE | - |
Running | labucs300-UAS-LABPGW300-ORCH-NW=192.0.2.17; labucs300-UAS-LABPGW300-MGMT-NW=192.0.2.16
```

```
labucs300-UAS-LABPGW300-UAS-core-UAS2-2 -> VNF2-UAS-VIP Primary
```

```
labucs300-UAS-LABPGW300-UAS-core-UAS2-1 -> Secondary
```

```
[stack@labucs300-ospd ~]$ nova reboot --hard 19f4496c-3907-4ea5-84c9-e5a6ef222392
```

```
Request to reboot server <Server: auto-testautovnf1-uas-2> has been accepted.
```

11. UAS اذح و ل ع UAS اذح و اذح ن م ق قح ت . ا س ال ا ف اذح و ر ه ط ت ي ت ح ر ط ت ن ا . ا ي و ن ا ث ل ا ل ح ر م ل ا م ن ي ب ا ي ا ح ل ا د ي ق ي ل ع ا س ال ا ف اذح و ل ا ل . ل ي غ ش ت ل اذح اذح د ع ب ا س ال ا ف اذح و ر ه ط ت .

```
ubuntu@labucs300-uas-LABPGW300-uas-core-uas2-2:~$ sudo -i
```

```
root@labucs300-uas-LABPGW300-uas-core-uas2-2:~# confd_cli -u admin -C
```

```
Welcome to the ConfD CLI
```

```
admin connected from 127.0.0.1 using console on labucs300-uas-LABPGW300-uas-core-uas2-2
```

```
labucs300-uas-LABPGW300-uas-core-uas2-2#show uas
```

```
uas version 6.2.0
```

```
uas state active
```

```
uas external-connection-point 192.0.2.8
```

```
INSTANCE IP STATE ROLE
```

```
-----
```

```
192.0.2.15 unknown CONF2-Secondary
```

```
192.0.2.17 alive CONF2-Primary
```

12. OpenStack رم او ا م اذح ت س ا ب ا ي و ن ا ث ل ا ف اذح و ل ي غ ش ت اذح ا ، OSPD ي ف .

```
[stack@labucs300-ospd ~]$. corerc ; openstack server start labucs300-UAS-LABPGW300-UAS-core-UAS2-1
```

13- ا ت ا ر ا ط ل ا ل ا ح ن ا ن م د ك ا ت ، ل ف ط ل ا و م ا ل ا ا ح ص ل ا ي ا ص ق ت س ا ل ا س ا ر د ل ا ب ق ل ع ت ي ا م ي ف و - 13 . ا ط ش ن ا ي و ن ا ث ل ا و ا س ال ا ف اذح و ر ه ط ت .

```
[stack@labucs300-ospd ~]$ openstack server list | grep labucs300-UAS-LABPGW300
| 19f4496c-3907-4ea5-84c9-e5a6ef222392 | labucs300-UAS-LABPGW300-UAS-core-UAS2-2 | ACTIVE |
labucs300-UAS-LABPGW300-ORCH-NW=192.0.2.17; labucs300-UAS-LABPGW300-MGMT-NW=192.0.2.16 |
labucs300-UAS-usp_6_2_b8-core-uas |
| 8608fda4-b763-4753-95ff-2e07852098e3 | labucs300-UAS-LABPGW300-UAS-core-UAS2-1 | ACTIVE |
labucs300-UAS-LABPGW300-ORCH-NW=192.0.2.15; labucs300-UAS-LABPGW300-MGMT-NW=192.0.2.7 |
labucs300-UAS-usp_6_2_b8-core-uas |
```

تادحولا تالاح نأ نم دكأت، ةرجفتلما داوملما دصرل ةيساسألما تادحولاب قلعتي امي فو - 14
ةايحل ديقل ل لازل ةيوناثلاو ةيساسألما.

```
labucs300-uas-LABPGW300-uas-core-uas2-2#show uas
uas version 6.2.0
uas state active
uas external-connection-point 192.0.2.8
INSTANCE IP STATE ROLE
-----
192.0.2.15 alive CONFD-Secondary
192.0.2.17 alive CONFD-Primary
```

15. ةيئاقللتلما ةمدخل ءدب ةيساسألما ةيئاقللتلما ةمدخل ي ف.

```
ubuntu@labucs300-autoit-2:~$ sudo -i
root@labucs300-autoit-2:~# service autoit start
```

16. ةيساسألما UAS تادحو لىل قئاقد عضبل رمتست (SSH) نامألما ةقبط ةسلج نأ نم دكأت
ةيوناثلاو.

17. ف ي HA_DEBUG ةمالع عضو ليغشت فاقئاب مق، ةيساسألما UAS تادحو ي ف
/opt/uas_baseconfig.txt.

```
ubuntu@labucs300-uas-LABPGW300-uas-core-uas2-2:~$ vi /opt/uas_baseconfig.txt
ha: true
ha-vip: 192.0.2.8
ha-secret: d5a9fee60ddae4fe357677dcf1320e51
orch-ips: 192.0.2.15,192.0.2.17
orch-intf: eth0
profile: AUTOVNF
ha_debug: OFF
```

18. ف ليغشتلما فاقئاب لىل HA_DEBUG ةمالع عضو نييعتب مق، ةيوناثلاو UAS ي ف
/opt/uas_baseconfig.txt.

```
ubuntu@labucs300-uas-LABPGW300-uas-core-uas2-1:~$ cat /opt/uas_baseconfig.txt
ha: true
ha-vip: 192.0.2.8
ha-secret: d5a9fee60ddae4fe357677dcf1320e51
orch-ips: 192.0.2.15,192.0.2.17
orch-intf: eth0
profile: AUTOVNF
ha_debug: OFF
```

19. ف فاقئاب لىل HA_DEBUG ةمالع عضو نييعتب مق، AutoIT ةيساسألما عضولا ي ف
/opt/uas_baseconfig.txt.

```
ubuntu@labucs300-autoit-2:~$ vi /opt/uas_baseconfig.txt
ha: true
ha-vip: 172.16.181.7
ha-secret: f99d04acb84807c4c6c6c0eaad392b5c
orch-ips: 172.16.181.5,172.16.181.8
orch-intf: eth0
prov-ha-vip: 172.16.181.13
prov-intf: eth0
profile: AUTOIT
ha_debug: OFF
```

خسنللا نم اهتداعت ساو **00-autoVNF.conf** و **rsyslog.conf** تافلنم نم ققحت AutoVNF لىل ع 20.
قباسللا يطايتحلالا

```
ubuntu@autoit-tbl-autovnf1-core-avf-1:~#sudo su
root@autoit-tbl-autovnf1-core-avf-1:~#ls /etc/rsyslog.d/00-autovnf.conf
00-autovnf.conf
```

```
root@autoit-tbl-autovnf1-core-avf-1:~#/home/ubuntu#ls /etc/rsyslog.conf
rsyslog.conf
```

تاققحتللا دعب

Ultra-M. ؤحص نم ققحتللا ريرقت صحفو طشن AutoVNFs الك نأ نم ققحت OSPD لىل ع

```
[stack@labucs300-ospd ~]$ cat /var/log/cisco/ultram-health/*.report | grep -i xxx
```

```
[stack@labucs300-ospd ~]$ cat /var/log/cisco/ultram-health/ultram_health_uas.report
```

ةمچرتل هذه ل و ح

ةلأل تاي نقتل ن م ة و مچ م ادخت ساب دن تسم ل اذ ه Cisco ت مچرت
م ل اء ان ا ع مچ ي ف ن م دخت س م ل م عد و ت م م م دقت ل ة يرش ب ل و
امك ة ق ي ق د ن و ك ت ن ل ة ل آل ة مچرت ل ض ف ا ن ا ة ظ ح ال م ي ج ر ي . ة ص ا خ ل م ه ت غ ل ب
Cisco ي ل خ ت . ف ر ت م م مچرت م ا ه م د ق ي ي ت ل ا ة ي ف ا ر ت ح ال ا ة مچرت ل ا م ل ا ح ل ا و ه
ل ا ا م ا د ع و ج ر ل ا ب ي ص و ت و ت ا مچرت ل ا ه ذ ه ة ق د ن ع ا ه ت ي ل و ئ س م Cisco
Systems (ر ف و ت م ط ب ا ر ل ا) ي ل ص ا ل ا ي ز ي ل ج ن ا ل ا دن ت س م ل ا