



# Sample Ultra M UWS Service Deployment Configuration File

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The service deployment configuration file is the XML file used by UWS to automate the deployment process. It dictates the deployment of AutoVNF, the VNFM, and the VNF. The parameters within the file are derived from a YANG model as described in [AutoDeploy Configuration File Constructs](#).

The file below is an example of a service deployment configuration file to bring up multiple VNFs and that implements NIC bonding.



## Caution

This is only a sample configuration file provided solely for your reference. You must create and modify your own configuration file according to the specific needs of your deployment such as:

- Secure-tokens
- OpenStack/VIM details
- Site details
- Networking details
- Package/iso details
- Rack details
- VNF information (quantity, VNFC configurations, number of SFs)
- VNFM information
- AutoVNF information



## Note

Multi-VNF deployments are currently only supported in relation to the Ultra M solution.

```
<?xml version="1.0" encoding="utf-8"?>
<config xmlns="http://tail-f.com/ns/config/1.0">
  <secure-token xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
    <secure-id>autovnf-login</secure-id>
    <user>$8$1D7ErIpesWC50aJYCiZzy9EWEVs/YQ5ofbMEjFPfy7g=</user>
    <password>*****</password>
  </secure-token>
  <secure-token xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
```

```

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    <password>*****</password>
  </secure-token>
  <secure-token xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
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    <user>$8$XX1ElqM5YMMr9fwJlAfGT3XiHiVievwKwMKA1Lu830k=</user>
    <password>*****</password>
  </secure-token>
  <secure-token xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
    <secure-id>confd-auth</secure-id>
    <user>$8$/wiIdzP4eBvaT0lZuJZSPBcDG2Qr8YSi/xcge+SQZZw=</user>
    <password>*****</password>
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  <secure-token xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
    <secure-id>autovnf1-admin</secure-id>
    <user>$8$TX6X3odV8Xn612cyGXrcwzDoNAAbn2i+BaSGGltirUI=</user>
    <password>*****</password>
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  <secure-token xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
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    <password>*****</password>
  </secure-token>
  <secure-token xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
    <secure-id>autovnf-security</secure-id>
    <user>$8$3WYoEr0yqkhvyPNhYDc/PD6+UzbvAxxzUWvzFgJSodg=</user>
    <password>*****</password>
  </secure-token>
  <secure-token xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
    <secure-id>autoit-vnf-token</secure-id>
    <user>$8$tTAvId9EsjXChPOQkMuv7xcWYgHYjclTnNWSgBQL2ww=</user>
    <password>*****</password>
  </secure-token>
  <vnf-package xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy" annotation="# package
1 # !">
    <vnf-package-id>package1</vnf-package-id>
    <package-location>/home/ubuntu/isos/usp-5_7_0-2082.iso</package-location>
    <validate-signature>>false</validate-signature>
    <config>
      <name>system.cfg</name>
      <location>http://172.21.201.55:5001/uploads/system.cfg</location>
    </config>
  </vnf-package>
  <vnf-package xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy" annotation="# package
2 # !">
    <vnf-package-id>package2</vnf-package-id>
    <package-location>/home/ubuntu/isos/usp-5_7_0-2082.iso</package-location>
    <validate-signature>>false</validate-signature>
    <config>
      <name>system.cfg</name>
      <location>http://172.21.201.55:5001/uploads/system.cfg</location>
    </config>
  </vnf-package>
  <vnf-package xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy" annotation="# package
3 # !">
    <vnf-package-id>package3</vnf-package-id>
    <package-location>/home/ubuntu/isos/usp-5_7_0-2082.iso</package-location>
    <validate-signature>>false</validate-signature>
    <config>
      <name>system.cfg</name>
      <location>http://172.21.201.55:5001/uploads/system.cfg</location>
    </config>
  </vnf-package>
  <vnf-package xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy" annotation="# package
4 # !">
    <vnf-package-id>package4</vnf-package-id>
    <package-location>/home/ubuntu/isos/usp-5_7_0-2082.iso</package-location>
    <validate-signature>>false</validate-signature>
    <config>
      <name>system.cfg</name>
      <location>http://172.21.201.55:5001/uploads/system.cfg</location>
    </config>
  </vnf-package>

```

```

</vnf-package>
<vnf-rackd xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy" annotation="# Rack 1 #
!">
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  <host>
    <host-id>tblano-compute-14.localdomain</host-id>
  </host>
  <host>
    <host-id>tblano-compute-15.localdomain</host-id>
  </host>
  <host>
    <host-id>tblano-compute-2.localdomain</host-id>
  </host>
  <host>
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  </host>
  <host>
    <host-id>tblano-compute-4.localdomain</host-id>
  </host>
  <host>
    <host-id>tblano-compute-5.localdomain</host-id>
  </host>
  <host>
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  <host>
    <host-id>tblano-compute-8.localdomain</host-id>
  </host>
  <host>
    <host-id>tblano-compute-9.localdomain</host-id>
  </host>
</host-aggregate>
<host-aggregate>
  <host-aggregate-id>sf-service4</host-aggregate-id>
  <host>
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  </host>
  <host>
    <host-id>tblano-compute-1.localdomain</host-id>
  </host>
  <host>
    <host-id>tblano-compute-10.localdomain</host-id>
  </host>
  <host>
    <host-id>tblano-compute-12.localdomain</host-id>

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</host>
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<host>
  <host-id>tblano-compute-14.localdomain</host-id>
</host>
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<host>
  <host-id>tblano-compute-2.localdomain</host-id>
</host>
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  <host-id>tblano-compute-3.localdomain</host-id>
</host>
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  <host-id>tblano-compute-4.localdomain</host-id>
</host>
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  <host-id>tblano-compute-5.localdomain</host-id>
</host>
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  <host-id>tblano-compute-8.localdomain</host-id>
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<host>
  <host-id>tblano-osd-compute-0.localdomain</host-id>
</host>
<host>
  <host-id>tblano-osd-compute-1.localdomain</host-id>
</host>
<host>
  <host-id>tblano-osd-compute-2.localdomain</host-id>
</host>
</host-aggregate>
</vnf-rackd>
<vnfmd xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy" annotation="# VNFM 1 # !">
  <id>ab-auto-test-vnfm1</id>
  <netconf-credential>autovnf1-admin</netconf-credential>
  <high-availability>>true</high-availability>
  <login-credential>autovnf1-admin</login-credential>
  <configs annotation="ha-vip 172.57.11.102 floating-ip-address 172.21.201.75">
    <variable>openstack.endpoint</variable>
    <value>publicURL</value>
  </configs>
  <image>
    <pre-created>default-non-image</pre-created>
  </image>
  <vnf-rackd>rack1</vnf-rackd>
  <flavor>
    <vcpus>2</vcpus>
    <ram>4096</ram>
    <root-disk>40</root-disk>
    <ephemeral-disk>0</ephemeral-disk>
    <swap-disk>0</swap-disk>
    <host-aggregate>cf-esc-mgmt1</host-aggregate>
  </flavor>
  <floating-ip>true</floating-ip>
</vnfmd>
<vnfmd xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy" annotation="# VNFM 2 # !">
  <id>ab-auto-test-vnfm2</id>
  <netconf-credential>autovnf1-admin</netconf-credential>
  <high-availability>true</high-availability>
  <login-credential>autovnf1-admin</login-credential>

```

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<configs annotation="ha-vip 172.57.11.102 floating-ip-address 172.21.201.75">
  <variable>openstack.endpoint</variable>
  <value>publicURL</value>
</configs>
<image>
  <pre-created>default-non-image</pre-created>
</image>
<vnf-rackd>rack2</vnf-rackd>
<flavor>
  <vcpus>2</vcpus>
  <ram>4096</ram>
  <root-disk>40</root-disk>
  <ephemeral-disk>0</ephemeral-disk>
  <swap-disk>0</swap-disk>
  <host-aggregate>cf-esc-mgmt2</host-aggregate>
</flavor>
<floating-ip>true</floating-ip>
</vnfmd>
<vnfmd xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy" annotation="# VNFM 3 # !">
  <id>ab-auto-test-vnfm3</id>
  <netconf-credential>autovnf1-admin</netconf-credential>
  <high-availability>true</high-availability>
  <login-credential>autovnf1-admin</login-credential>
  <configs annotation="ha-vip 172.57.11.102 floating-ip-address 172.21.201.75">
    <variable>openstack.endpoint</variable>
    <value>publicURL</value>
  </configs>
  <image>
    <pre-created>default-non-image</pre-created>
  </image>
  <vnf-rackd>rack3</vnf-rackd>
  <flavor>
    <vcpus>2</vcpus>
    <ram>4096</ram>
    <root-disk>40</root-disk>
    <ephemeral-disk>0</ephemeral-disk>
    <swap-disk>0</swap-disk>
    <host-aggregate>cf-esc-mgmt3</host-aggregate>
  </flavor>
  <floating-ip>true</floating-ip>
</vnfmd>
<vnfmd xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy" annotation="# VNFM 4 # !">
  <id>ab-auto-test-vnfm4</id>
  <netconf-credential>autovnf1-admin</netconf-credential>
  <high-availability>true</high-availability>
  <login-credential>autovnf1-admin</login-credential>
  <configs annotation="ha-vip 172.57.11.102 floating-ip-address 172.21.201.75">
    <variable>openstack.endpoint</variable>
    <value>publicURL</value>
  </configs>
  <image>
    <pre-created>default-non-image</pre-created>
  </image>
  <vnf-rackd>rack4</vnf-rackd>
  <flavor>
    <vcpus>2</vcpus>
    <ram>4096</ram>
    <root-disk>40</root-disk>
    <ephemeral-disk>0</ephemeral-disk>
    <swap-disk>0</swap-disk>
    <host-aggregate>cf-esc-mgmt4</host-aggregate>
  </flavor>
  <floating-ip>true</floating-ip>
</vnfmd>
<vnfd xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy" annotation="# VNFD 1 # !">
  <vnfd-id>auto-testvnfd1</vnfd-id>
  <vnf-rackd>rack1</vnf-rackd>
  <vnf-package>package1</vnf-package>
  <vdu-catalog>
    <vdu-id>element-manager</vdu-id>
    <vdu-type>element-manager</vdu-type>
    <login-credential>em-login</login-credential>
  </vdu-catalog>
  <scm>

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```

        <admin>autovnf1-admin</admin>
        <oper>autovnf1-oper</oper>
    </scm>
    <ha-type>one-to-one</ha-type>
    <health-check-frequency>10</health-check-frequency>
    <health-probe-max-miss>6</health-probe-max-miss>
    <recovery-type>recovery-restart</recovery-type>
    <flavor>
        <vcpus>2</vcpus>
        <ram>4096</ram>
        <root-disk>40</root-disk>
        <ephemeral-disk>0</ephemeral-disk>
        <swap-disk>0</swap-disk>
        <host-aggregate>em-autovnf-mgmt1</host-aggregate>
        <anti-affinity-placement>true</anti-affinity-placement>
    </flavor>
</vdu-catalog>
<vdu-catalog>
    <vdu-id>CF-vdu-ref</vdu-id>
    <vdu-type>control-function</vdu-type>
    <neds>
        <ned-type>netconf</ned-type>
        <ned-id>cisco-staros-nc</ned-id>
        <port-number>830</port-number>
        <authentication>confd-auth</authentication>
    </neds>
    <volumes>
        <volume>cf-cdr</volume>
    </volumes>
    <volumes>
        <volume>cf-boot</volume>
    </volumes>
    <ha-type>one-to-one</ha-type>
    <health-check-frequency>10</health-check-frequency>
    <health-probe-max-miss>6</health-probe-max-miss>
    <recovery-type>recovery-restart</recovery-type>
    <flavor>
        <vcpus>8</vcpus>
        <ram>16384</ram>
        <root-disk>6</root-disk>
        <ephemeral-disk>0</ephemeral-disk>
        <swap-disk>0</swap-disk>
        <host-aggregate>cf-esc-mgmt1</host-aggregate>
        <anti-affinity-placement>true</anti-affinity-placement>
    </flavor>
    <configuration>
        <destination-path>staros_config.txt</destination-path>
        <apply-at>day-zero</apply-at>
        <config-ref>system.cfg</config-ref>
    </configuration>
</vdu-catalog>
<vdu-catalog>
    <vdu-id>SF-vdu-ref</vdu-id>
    <vdu-type>session-function</vdu-type>
    <upp>
        <cores>30</cores>
        <crypto-cores>0</crypto-cores>
        <service-mode>vpc</service-mode>
        <disable-mcdma>false</disable-mcdma>
        <disable-numa>false</disable-numa>
    </upp>
    <ha-type>one-to-one</ha-type>
    <health-check-frequency>10</health-check-frequency>
    <health-probe-max-miss>6</health-probe-max-miss>
    <recovery-type>recovery-restart</recovery-type>
    <flavor>
        <vcpus>12</vcpus>
        <ram>16384</ram>
        <root-disk>6</root-disk>
        <ephemeral-disk>0</ephemeral-disk>
        <swap-disk>0</swap-disk>
        <host-aggregate>sf-servicel</host-aggregate>
        <anti-affinity-placement>true</anti-affinity-placement>

```

```

</flavor>
</vdu-catalog>
<volume-catalog>
  <volume-id>em-volume</volume-id>
  <volume>
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    <size>1</size>
    <bus>ide</bus>
    <bootable>>false</bootable>
    <preserve-on-upgrade>>false</preserve-on-upgrade>
  </volume>
</volume-catalog>
<volume-catalog>
  <volume-id>cf-boot</volume-id>
  <volume>
    <type>LUKS</type>
    <size>16</size>
    <bus>ide</bus>
    <bootable>>true</bootable>
    <preserve-on-upgrade>>false</preserve-on-upgrade>
  </volume>
</volume-catalog>
<volume-catalog>
  <volume-id>cf-cdr</volume-id>
  <volume>
    <type>LUKS</type>
    <size>30</size>
    <bus>ide</bus>
    <bootable>>false</bootable>
    <preserve-on-upgrade>>true</preserve-on-upgrade>
  </volume>
</volume-catalog>
<network-catalog>
  <network-id>di-internal1</network-id>
  <pre-created>di-internal1</pre-created>
  <type>sriov-flat</type>
  <physnet>phys_pcie1_0</physnet>
  <ip-prefix>192.168.1.0/24</ip-prefix>
  <dhcp>>true</dhcp>
  <vlan-tag>>true</vlan-tag>
  <vlan>2111</vlan>
</network-catalog>
<network-catalog>
  <network-id>di-internal2</network-id>
  <pre-created>di-internal2</pre-created>
  <type>sriov-flat</type>
  <physnet>phys_pcie4_1</physnet>
  <ip-prefix>192.168.2.0/24</ip-prefix>
  <dhcp>>true</dhcp>
  <vlan-tag>>true</vlan-tag>
  <vlan>2111</vlan>
</network-catalog>
<network-catalog>
  <network-id>service-network1</network-id>
  <pre-created>service1</pre-created>
  <type>sriov-flat</type>
  <physnet>phys_pcie1_1</physnet>
  <ip-prefix>10.10.10.0/24</ip-prefix>
  <dhcp>>true</dhcp>
  <vlan-tag>>true</vlan-tag>
  <vlan>2111</vlan>
</network-catalog>
<network-catalog>
  <network-id>service-network2</network-id>
  <pre-created>service2</pre-created>
  <type>sriov-flat</type>
  <physnet>phys_pcie4_0</physnet>
  <ip-prefix>20.20.20.0/24</ip-prefix>
  <dhcp>>true</dhcp>
  <vlan-tag>>true</vlan-tag>
  <vlan>2111</vlan>
</network-catalog>
</network-catalog>

```

```

    <network-id>management</network-id>
    <pre-created>auto-testautovnfl-uas-management</pre-created>
    <type>vlan</type>
    <ip-prefix>172.57.11.0/24</ip-prefix>
    <dhcp>true</dhcp>
    <gateway>172.57.11.1</gateway>
  </network-catalog>
</network-catalog>
  <network-id>orchestration</network-id>
  <pre-created>auto-testautovnfl-uas-orchestration</pre-created>
  <type>vlan</type>
  <ip-prefix>172.57.12.0/24</ip-prefix>
  <dhcp>true</dhcp>
</network-catalog>
<vnf-deployment>
  <deployment-id>ab-vnfd-dep</deployment-id>
  <enable-vim>true</enable-vim>
  <vnf-em>
    <vdu-id>element-manager</vdu-id>
    <high-availability>true</high-availability>
    <ha-vip>172.57.11.113</ha-vip>
    <orchestration-network annotation="vnf-em floating-ip true vnf-em floating-ip-address
172.21.201.244">orchestration</orchestration-network>
    <management-network>management</management-network>
    <floating-ip>false</floating-ip>
  </vnf-em>
  <vnf-param>
    <type>vpc</type>
    <configuration>
      <name>domain-name</name>
      <value>cisco.com</value>
    </configuration>
    <configuration>
      <name>dns-servers</name>
      <value>171.70.168.183</value>
    </configuration>
    <internal-network>
      <network>di-internal1</network>
    </internal-network>
    <internal-network>
      <network>di-internal2</network>
    </internal-network>
  </vnf-param>
<infra-element-groups>
  <name>di-chasis</name>
  <instances annotation="high-availability true">1</instances>
  <vdus>
    <vdu-id>CF</vdu-id>
    <vdu-ref>CF-vdu-ref</vdu-ref>
    <instances>2</instances>
    <high-availability>true</high-availability>
    <ha-vip>172.57.11.114</ha-vip>
    <ha-network>management</ha-network>
    <floating-ip>false</floating-ip>
    <interfaces annotation="floating-ip-address 172.25.22.76 high-availability true">
      <ifname>di_intf1</ifname>
      <network>di-internal1</network>
    </interfaces>
    <interfaces>
      <ifname>orch</ifname>
      <network>orchestration</network>
    </interfaces>
    <interfaces>
      <ifname>mgmt</ifname>
      <network>management</network>
      <uplink-actions>
        <action>mount-ned-nc</action>
      </uplink-actions>
    </interfaces>
    <interfaces>
      <ifname>di_intf2</ifname>
      <network>di-internal2</network>
    </interfaces>
  </vdus>
</infra-element-groups>

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</interfaces>
<interface-bonds>
  <bond>DI_INTERFACE</bond>
  <bond-interfaces>
    <interface>di_intf1</interface>
  </bond-interfaces>
  <bond-interfaces>
    <interface>di_intf2</interface>
  </bond-interfaces>
</interface-bonds>
</vdu>
<vdu>
  <vdu-id>SF</vdu-id>
  <vdu-ref>SF-vdu-ref</vdu-ref>
  <instances>4</instances>
  <interfaces>
    <ifname>di_intf1</ifname>
    <network>di-internal1</network>
  </interfaces>
  <interfaces>
    <ifname>orch</ifname>
    <network>orchestration</network>
  </interfaces>
  <interfaces>
    <ifname>svc_intf1</ifname>
    <network>service-network1</network>
  </interfaces>
  <interfaces>
    <ifname>svc_intf2</ifname>
    <network>service-network2</network>
  </interfaces>
  <interfaces>
    <ifname>di_intf2</ifname>
    <network>di-internal2</network>
  </interfaces>
  <interfaces>
    <ifname>svc_intf3</ifname>
    <network>service-network1</network>
  </interfaces>
  <interfaces>
    <ifname>svc_intf4</ifname>
    <network>service-network2</network>
  </interfaces>
  <interface-bonds>
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    <bond-interfaces>
      <interface>di_intf1</interface>
    </bond-interfaces>
    <bond-interfaces>
      <interface>di_intf2</interface>
    </bond-interfaces>
  </interface-bonds>
  <interface-bonds>
    <bond>SERVICE1_INTERFACE</bond>
    <bond-interfaces>
      <interface>svc_intf1</interface>
    </bond-interfaces>
    <bond-interfaces>
      <interface>svc_intf2</interface>
    </bond-interfaces>
  </interface-bonds>
  <interface-bonds>
    <bond>SERVICE2_INTERFACE</bond>
    <bond-interfaces>
      <interface>svc_intf3</interface>
    </bond-interfaces>
    <bond-interfaces>
      <interface>svc_intf4</interface>
    </bond-interfaces>
  </interface-bonds>
</vdu>
</infra-element-groups>
</vnf-deployment>

```



```

</vnfd>
<vnfd xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy" annotation="# VNFD 2 # !">
  <vnfd-id>auto-testvnfd2</vnfd-id>
  <vnf-rackd>rack2</vnf-rackd>
  <vnf-package>package2</vnf-package>
  <vdu-catalog>
    <vdu-id>element-manager</vdu-id>
    <vdu-type>element-manager</vdu-type>
    <login-credential>em-login</login-credential>
    <scm>
      <admin>autovnf1-admin</admin>
      <oper>autovnf1-oper</oper>
    </scm>
    <ha-type>one-to-one</ha-type>
    <health-check-frequency>10</health-check-frequency>
    <health-probe-max-miss>6</health-probe-max-miss>
    <recovery-type>recovery-restart</recovery-type>
    <flavor>
      <vcpus>2</vcpus>
      <ram>4096</ram>
      <root-disk>40</root-disk>
      <ephemeral-disk>0</ephemeral-disk>
      <swap-disk>0</swap-disk>
      <host-aggregate>em-autovnf-mgmt2</host-aggregate>
      <anti-affinity-placement>true</anti-affinity-placement>
    </flavor>
  </vdu-catalog>
  <vdu-catalog>
    <vdu-id>CF-vdu-ref</vdu-id>
    <vdu-type>control-function</vdu-type>
    <neds>
      <ned-type>netconf</ned-type>
      <ned-id>cisco-staros-nc</ned-id>
      <port-number>830</port-number>
      <authentication>confd-auth</authentication>
    </neds>
    <volumes>
      <volume>cf-cdr</volume>
    </volumes>
    <volumes>
      <volume>cf-boot</volume>
    </volumes>
    <ha-type>one-to-one</ha-type>
    <health-check-frequency>10</health-check-frequency>
    <health-probe-max-miss>6</health-probe-max-miss>
    <recovery-type>recovery-restart</recovery-type>
    <flavor>
      <vcpus>8</vcpus>
      <ram>16384</ram>
      <root-disk>6</root-disk>
      <ephemeral-disk>0</ephemeral-disk>
      <swap-disk>0</swap-disk>
      <host-aggregate>cf-esc-mgmt2</host-aggregate>
      <anti-affinity-placement>true</anti-affinity-placement>
    </flavor>
    <configuration>
      <destination-path>staros_config.txt</destination-path>
      <apply-at>day-zero</apply-at>
      <config-ref>system.cfg</config-ref>
    </configuration>
  </vdu-catalog>
  <vdu-catalog>
    <vdu-id>SF-vdu-ref</vdu-id>
    <vdu-type>session-function</vdu-type>
    <upp>
      <cores>30</cores>
      <crypto-cores>0</crypto-cores>
      <service-mode>vpc</service-mode>
      <disable-mcdma>>false</disable-mcdma>
      <disable-numa>>false</disable-numa>
    </upp>
    <ha-type>one-to-one</ha-type>
    <health-check-frequency>10</health-check-frequency>

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```

<health-probe-max-miss>6</health-probe-max-miss>
<recovery-type>recovery-restart</recovery-type>
<flavor>
  <vcpus>12</vcpus>
  <ram>16384</ram>
  <root-disk>6</root-disk>
  <ephemeral-disk>0</ephemeral-disk>
  <swap-disk>0</swap-disk>
  <host-aggregate>sf-service2</host-aggregate>
  <anti-affinity-placement>true</anti-affinity-placement>
</flavor>
</vdu-catalog>
<volume-catalog>
  <volume-id>em-volume</volume-id>
  <volume>
    <type>LUKS</type>
    <size>1</size>
    <bus>ide</bus>
    <bootable>>false</bootable>
    <preserve-on-upgrade>>false</preserve-on-upgrade>
  </volume>
</volume-catalog>
<volume-catalog>
  <volume-id>cf-boot</volume-id>
  <volume>
    <type>LUKS</type>
    <size>16</size>
    <bus>ide</bus>
    <bootable>>true</bootable>
    <preserve-on-upgrade>>false</preserve-on-upgrade>
  </volume>
</volume-catalog>
<volume-catalog>
  <volume-id>cf-cdr</volume-id>
  <volume>
    <type>LUKS</type>
    <size>30</size>
    <bus>ide</bus>
    <bootable>>false</bootable>
    <preserve-on-upgrade>true</preserve-on-upgrade>
  </volume>
</volume-catalog>
<network-catalog>
<network-catalog>
  <network-id>di-internal1</network-id>
  <pre-created>di-internal1</pre-created>
  <type>sriov-flat</type>
  <physnet>phys_pcie1_0</physnet>
  <ip-prefix>192.168.21.0/24</ip-prefix>
  <dhcp>true</dhcp>
  <vlan-tag>true</vlan-tag>
  <vlan>2112</vlan>
</network-catalog>
<network-catalog>
  <network-id>di-internal2</network-id>
  <pre-created>di-internal2</pre-created>
  <type>sriov-flat</type>
  <physnet>phys_pcie4_1</physnet>
  <ip-prefix>192.168.22.0/24</ip-prefix>
  <dhcp>true</dhcp>
  <vlan-tag>true</vlan-tag>
  <vlan>2112</vlan>
</network-catalog>
<network-catalog>
  <network-id>service-network1</network-id>
  <pre-created>service1</pre-created>
  <type>sriov-flat</type>
  <physnet>phys_pcie1_1</physnet>
  <ip-prefix>10.10.12.0/24</ip-prefix>
  <dhcp>true</dhcp>
  <vlan-tag>true</vlan-tag>
  <vlan>2112</vlan>
</network-catalog>
</network-catalog>

```

```

    <network-id>service-network2</network-id>
    <pre-created>service2</pre-created>
    <type>sriov-flat</type>
    <physnet>phys_pcie4_0</physnet>
    <ip-prefix>20.20.22.0/24</ip-prefix>
    <dhcp>>true</dhcp>
    <vlan-tag>true</vlan-tag>
    <vlan>2112</vlan>
  </network-catalog>
</network-catalog>
<network-catalog>
  <network-id>management</network-id>
  <pre-created>auto-testautovnf2-uas-management</pre-created>
  <type>vlan</type>
  <ip-prefix>172.67.11.0/24</ip-prefix>
  <dhcp>true</dhcp>
  <gateway>172.67.11.1</gateway>
</network-catalog>
</network-catalog>
<network-catalog>
  <network-id>orchestration</network-id>
  <pre-created>auto-testautovnf2-uas-orchestration</pre-created>
  <type>vlan</type>
  <ip-prefix>172.67.12.0/24</ip-prefix>
  <dhcp>true</dhcp>
</network-catalog>
</network-catalog>
<vnf-deployment>
  <deployment-id>ab-vnfd-dep</deployment-id>
  <enable-vim>true</enable-vim>
  <vnf-em>
    <vdu-id>element-manager</vdu-id>
    <high-availability>true</high-availability>
    <ha-vip>172.67.11.103</ha-vip>
    <orchestration-network annotation="vnf-em floating-ip true vnf-em floating-ip-address
172.21.201.244">orchestration</orchestration-network>
    <management-network>management</management-network>
    <floating-ip>>false</floating-ip>
  </vnf-em>
  <vnf-param>
    <type>vpc</type>
    <configuration>
      <name>domain-name</name>
      <value>cisco.com</value>
    </configuration>
    <configuration>
      <name>dns-servers</name>
      <value>171.70.168.183</value>
    </configuration>
    <internal-network>
      <network>di-internal1</network>
    </internal-network>
    <internal-network>
      <network>di-internal2</network>
    </internal-network>
  </vnf-param>
  <infra-element-groups>
    <name>di-chassis</name>
    <instances annotation="high-availability true">1</instances>
    <vdus>
      <vdu-id>CF</vdu-id>
      <vdu-ref>CF</vdu-ref>
      <instances>2</instances>
      <high-availability>true</high-availability>
      <ha-vip>172.67.11.104</ha-vip>
      <ha-network>management</ha-network>
      <floating-ip>true</floating-ip>
      <interfaces annotation="floating-ip-address 172.25.22.76 high-availability true">
        <ifname>di_intf1</ifname>
        <network>di-internal1</network>
      </interfaces>
      <interfaces>
        <ifname>orch</ifname>
        <network>orchestration</network>
      </interfaces>
    </vdus>
  </infra-element-groups>

```

```

<interfaces>
  <ifname>mgmt</ifname>
  <network>management</network>
  <uplink-actions>
    <action>mount-ned-nc</action>
  </uplink-actions>
</interfaces>
<interfaces>
  <ifname>di_intf2</ifname>
  <network>dī-internal2</network>
</interfaces>
<interface-bonds>
  <bond>DI_INTERFACE</bond>
  <bond-interfaces>
    <interface>di_intf1</interface>
  </bond-interfaces>
  <bond-interfaces>
    <interface>di_intf2</interface>
  </bond-interfaces>
</interface-bonds>
</vdus>
<vdu>
  <vdu-id>SF</vdu-id>
  <vdu-ref>SF-vdu-ref</vdu-ref>
  <instances>4</instances>
  <interfaces>
    <ifname>di_intf1</ifname>
    <network>dī-internal1</network>
  </interfaces>
  <interfaces>
    <ifname>orch</ifname>
    <network>orchestration</network>
  </interfaces>
  <interfaces>
    <ifname>svc_intf1</ifname>
    <network>service-network1</network>
  </interfaces>
  <interfaces>
    <ifname>svc_intf2</ifname>
    <network>service-network2</network>
  </interfaces>
  <interfaces>
    <ifname>di_intf2</ifname>
    <network>dī-internal2</network>
  </interfaces>
  <interfaces>
    <ifname>svc_intf3</ifname>
    <network>service-network1</network>
  </interfaces>
  <interfaces>
    <ifname>svc_intf4</ifname>
    <network>service-network2</network>
  </interfaces>
  <interface-bonds>
    <bond>DI_INTERFACE</bond>
    <bond-interfaces>
      <interface>di_intf1</interface>
    </bond-interfaces>
    <bond-interfaces>
      <interface>di_intf2</interface>
    </bond-interfaces>
  </interface-bonds>
  <interface-bonds>
    <bond>SERVICE1_INTERFACE</bond>
    <bond-interfaces>
      <interface>svc_intf1</interface>
    </bond-interfaces>
    <bond-interfaces>
      <interface>svc_intf2</interface>
    </bond-interfaces>
  </interface-bonds>
  <interface-bonds>
    <bond>SERVICE2_INTERFACE</bond>

```

```

        <bond-interfaces>
            <interface>svc_intf3</interface>
        </bond-interfaces>
        <bond-interfaces>
            <interface>svc_intf4</interface>
        </bond-interfaces>
    </interface-bonds>
</vdu>
</infra-element-groups>
</vnf-deployment>
</vnfd>
<vnfd xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy" annotation="# VNFD 3 # !">
    <vnfd-id>auto-testvnfd3</vnfd-id>
    <vnf-rackd>rack3</vnf-rackd>
    <vnf-package>package3</vnf-package>
    <vdu-catalog>
        <vdu-id>element-manager</vdu-id>
        <vdu-type>element-manager</vdu-type>
        <login-credential>em-login</login-credential>
        <scm>
            <admin>autovnf1-admin</admin>
            <oper>autovnf1-oper</oper>
        </scm>
        <ha-type>one-to-one</ha-type>
        <health-check-frequency>10</health-check-frequency>
        <health-probe-max-miss>6</health-probe-max-miss>
        <recovery-type>recovery-restart</recovery-type>
        <flavor>
            <vcpus>2</vcpus>
            <ram>4096</ram>
            <root-disk>40</root-disk>
            <ephemeral-disk>0</ephemeral-disk>
            <swap-disk>0</swap-disk>
            <host-aggregate>em-autovnf-mgmt3</host-aggregate>
            <anti-affinity-placement>true</anti-affinity-placement>
        </flavor>
    </vdu-catalog>
</vdu-catalog>
<vdu-catalog>
    <vdu-id>CF-vdu-ref</vdu-id>
    <vdu-type>control-function</vdu-type>
    <neds>
        <ned-type>netconf</ned-type>
        <ned-id>cisco-staros-nc</ned-id>
        <port-number>830</port-number>
        <authentication>confd-auth</authentication>
    </neds>
    <volumes>
        <volume>cf-cdr</volume>
    </volumes>
    <volumes>
        <volume>cf-boot</volume>
    </volumes>
    <ha-type>one-to-one</ha-type>
    <health-check-frequency>10</health-check-frequency>
    <health-probe-max-miss>6</health-probe-max-miss>
    <recovery-type>recovery-restart</recovery-type>
    <flavor>
        <vcpus>8</vcpus>
        <ram>16384</ram>
        <root-disk>6</root-disk>
        <ephemeral-disk>0</ephemeral-disk>
        <swap-disk>0</swap-disk>
        <host-aggregate>cf-esc-mgmt3</host-aggregate>
        <anti-affinity-placement>true</anti-affinity-placement>
    </flavor>
    <configuration>
        <destination-path>staros_config.txt</destination-path>
        <apply-at>day-zero</apply-at>
        <config-ref>system.cfg</config-ref>
    </configuration>
</vdu-catalog>
<vdu-catalog>
    <vdu-id>SF-vdu-ref</vdu-id>

```

```

<vdu-type>session-function</vdu-type>
<upp>
  <cores>30</cores>
  <crypto-cores>0</crypto-cores>
  <service-mode>vpc</service-mode>
  <disable-mcdma>false</disable-mcdma>
  <disable-numa>false</disable-numa>
</upp>
<ha-type>one-to-one</ha-type>
<health-check-frequency>10</health-check-frequency>
<health-probe-max-miss>6</health-probe-max-miss>
<recovery-type>recovery-restart</recovery-type>
<flavor>
  <vcpus>12</vcpus>
  <ram>16384</ram>
  <root-disk>6</root-disk>
  <ephemeral-disk>0</ephemeral-disk>
  <swap-disk>0</swap-disk>
  <host-aggregate>sf-service3</host-aggregate>
  <anti-affinity-placement>true</anti-affinity-placement>
</flavor>
</vdu-catalog>
<volume-catalog>
  <volume-id>em-volume</volume-id>
  <volume>
    <type>LUKS</type>
    <size>1</size>
    <bus>ide</bus>
    <bootable>false</bootable>
    <preserve-on-upgrade>false</preserve-on-upgrade>
  </volume>
</volume-catalog>
<volume-catalog>
  <volume-id>cf-boot</volume-id>
  <volume>
    <type>LUKS</type>
    <size>16</size>
    <bus>ide</bus>
    <bootable>true</bootable>
    <preserve-on-upgrade>false</preserve-on-upgrade>
  </volume>
</volume-catalog>
<volume-catalog>
  <volume-id>cf-cdr</volume-id>
  <volume>
    <type>LUKS</type>
    <size>30</size>
    <bus>ide</bus>
    <bootable>false</bootable>
    <preserve-on-upgrade>true</preserve-on-upgrade>
  </volume>
</volume-catalog>
<network-catalog>
  <network-id>di-internal1</network-id>
  <pre-created>di-internal1</pre-created>
  <type>sriov-flat</type>
  <physnet>phys_pcie1_0</physnet>
  <ip-prefix>192.168.31.0/24</ip-prefix>
  <dhcp>true</dhcp>
  <vlan-tag>true</vlan-tag>
  <vlan>2113</vlan>
</network-catalog>
<network-catalog>
  <network-id>di-internal2</network-id>
  <pre-created>di-internal2</pre-created>
  <type>sriov-flat</type>
  <physnet>phys_pcie4_1</physnet>
  <ip-prefix>192.168.32.0/24</ip-prefix>
  <dhcp>true</dhcp>
  <vlan-tag>true</vlan-tag>
  <vlan>2113</vlan>
</network-catalog>
</network-catalog>

```

```

    <network-id>service-network1</network-id>
    <pre-created>service1</pre-created>
    <type>sriov-flat</type>
    <physnet>phys_pcie1_1</physnet>
    <ip-prefix>10.10.31.0/24</ip-prefix>
    <dhcp>>true</dhcp>
    <vlan-tag>>true</vlan-tag>
    <vlan>2113</vlan>
  </network-catalog>
</network-catalog>
<network-catalog>
  <network-id>service-network2</network-id>
  <pre-created>service2</pre-created>
  <type>sriov-flat</type>
  <physnet>phys_pcie4_0</physnet>
  <ip-prefix>20.20.32.0/24</ip-prefix>
  <dhcp>>true</dhcp>
  <vlan-tag>>true</vlan-tag>
  <vlan>2113</vlan>
</network-catalog>
</network-catalog>
<network-catalog>
  <network-id>management</network-id>
  <pre-created>auto-testautovnf3-uas-management</pre-created>
  <type>vlan</type>
  <ip-prefix>172.77.11.0/24</ip-prefix>
  <dhcp>>true</dhcp>
  <gateway>172.77.11.1</gateway>
</network-catalog>
</network-catalog>
<network-catalog>
  <network-id>orchestration</network-id>
  <pre-created>auto-testautovnf3-uas-orchestration</pre-created>
  <type>vlan</type>
  <ip-prefix>172.77.12.0/24</ip-prefix>
  <dhcp>>true</dhcp>
</network-catalog>
</network-catalog>
<vnf-deployment>
  <deployment-id>ab-vnfd-dep</deployment-id>
  <enable-vim>true</enable-vim>
  <vnf-em>
    <vdu-id>element-manager</vdu-id>
    <high-availability>true</high-availability>
    <ha-vip>172.77.11.103</ha-vip>
    <orchestration-network annotation="vnf-em floating-ip true vnf-em floating-ip-address
172.21.201.244">orchestration</orchestration-network>
    <management-network>management</management-network>
    <floating-ip>>false</floating-ip>
  </vnf-em>
  <vnf-param>
    <type>vpc</type>
    <configuration>
      <name>domain-name</name>
      <value>cisco.com</value>
    </configuration>
    <configuration>
      <name>dns-servers</name>
      <value>171.70.168.183</value>
    </configuration>
    <internal-network>
      <network>di-internal1</network>
    </internal-network>
    <internal-network>
      <network>di-internal2</network>
    </internal-network>
  </vnf-param>
</infra-element-groups>
  <name>di-chasis</name>
  <instances annotation="high-availability true">1</instances>
  <vdus>
    <vdu-id>CF</vdu-id>
    <vdu-ref>CF-vdu-ref</vdu-ref>
    <instances>2</instances>
    <high-availability>true</high-availability>
    <ha-vip>172.77.11.104</ha-vip>
    <ha-network>management</ha-network>
  </vdus>

```

```

    <floating-ip>true</floating-ip>
<interfaces annotation="floating-ip-address 172.25.22.76 high-availability true">
    <ifname>di_intf1</ifname>
    <network>di-internal1</network>
</interfaces>
<interfaces>
    <ifname>orch</ifname>
    <network>orchestration</network>
</interfaces>
<interfaces>
    <ifname>mgmt</ifname>
    <network>management</network>
    <uplink-actions>
        <action>mount-ned-nc</action>
    </uplink-actions>
</interfaces>
<interfaces>
    <ifname>di_intf2</ifname>
    <network>di-internal2</network>
</interfaces>
<interface-bonds>
    <bond>DI_INTERFACE</bond>
    <bond-interfaces>
        <interface>di_intf1</interface>
    </bond-interfaces>
    <bond-interfaces>
        <interface>di_intf2</interface>
    </bond-interfaces>
</interface-bonds>
</vdu>
<vdus>
    <vdu-id>SF</vdu-id>
    <vdu-ref>SF-vdu-ref</vdu-ref>
    <instances>4</instances>
    <interfaces>
        <ifname>di_intf1</ifname>
        <network>di-internal1</network>
    </interfaces>
    <interfaces>
        <ifname>orch</ifname>
        <network>orchestration</network>
    </interfaces>
    <interfaces>
        <ifname>svc_intf1</ifname>
        <network>service-network1</network>
    </interfaces>
    <interfaces>
        <ifname>svc_intf2</ifname>
        <network>service-network2</network>
    </interfaces>
    <interfaces>
        <ifname>di_intf2</ifname>
        <network>di-internal2</network>
    </interfaces>
    <interfaces>
        <ifname>svc_intf3</ifname>
        <network>service-network1</network>
    </interfaces>
    <interfaces>
        <ifname>svc_intf4</ifname>
        <network>service-network2</network>
    </interfaces>
    <interface-bonds>
        <bond>DI_INTERFACE</bond>
        <bond-interfaces>
            <interface>di_intf1</interface>
        </bond-interfaces>
        <bond-interfaces>
            <interface>di_intf2</interface>
        </bond-interfaces>
    </interface-bonds>
</interface-bonds>

```



```

        <bond>SERVICE1_INTERFACE</bond>
        <bond-interfaces>
          <interface>svc_intf1</interface>
        </bond-interfaces>
        <bond-interfaces>
          <interface>svc_intf2</interface>
        </bond-interfaces>
      </interface-bonds>
    </interface-bonds>
    <bond>SERVICE2_INTERFACE</bond>
    <bond-interfaces>
      <interface>svc_intf3</interface>
    </bond-interfaces>
    <bond-interfaces>
      <interface>svc_intf4</interface>
    </bond-interfaces>
  </interface-bonds>
</vdu>
</infra-element-groups>
</vnf-deployment>
</vnfd>
<vnfd xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy" annotation="# VNFD 4 # !">
  <vnfd-id>auto-testvnfd4</vnfd-id>
  <vnf-rackd>rack4</vnf-rackd>
  <vnf-package>package4</vnf-package>
  <vdu-catalog>
    <vdu-id>element-manager</vdu-id>
    <vdu-type>element-manager</vdu-type>
    <login-credential>em-login</login-credential>
    <scm>
      <admin>autovnf1-admin</admin>
      <oper>autovnf1-oper</oper>
    </scm>
    <ha-type>one-to-one</ha-type>
    <health-check-frequency>10</health-check-frequency>
    <health-probe-max-miss>6</health-probe-max-miss>
    <recovery-type>recovery-restart</recovery-type>
    <flavor>
      <vcpus>2</vcpus>
      <ram>4096</ram>
      <root-disk>40</root-disk>
      <ephemeral-disk>0</ephemeral-disk>
      <swap-disk>0</swap-disk>
      <host-aggregate>em-autovnf-mgmt4</host-aggregate>
      <anti-affinity-placement>true</anti-affinity-placement>
    </flavor>
  </vdu-catalog>
  <vdu-catalog>
    <vdu-id>CF-vdu-ref</vdu-id>
    <vdu-type>control-function</vdu-type>
    <neds>
      <ned-type>netconf</ned-type>
      <ned-id>cisco-staros-nc</ned-id>
      <port-number>830</port-number>
      <authentication>confd-auth</authentication>
    </neds>
    <volumes>
      <volume>cf-cdr</volume>
    </volumes>
    <volumes>
      <volume>cf-boot</volume>
    </volumes>
    <ha-type>one-to-one</ha-type>
    <health-check-frequency>10</health-check-frequency>
    <health-probe-max-miss>6</health-probe-max-miss>
    <recovery-type>recovery-restart</recovery-type>
    <flavor>
      <vcpus>8</vcpus>
      <ram>16384</ram>
      <root-disk>6</root-disk>
      <ephemeral-disk>0</ephemeral-disk>
      <swap-disk>0</swap-disk>
      <host-aggregate>cf-esc-mgmt4</host-aggregate>

```

```

    <anti-affinity-placement>true</anti-affinity-placement>
  </flavor>
  <configuration>
    <destination-path>staros_config.txt</destination-path>
    <apply-at>day-zero</apply-at>
    <config-ref>system.cfg</config-ref>
  </configuration>
</vdu-catalog>
<vdu-catalog>
  <vdu-id>SF-vdu-ref</vdu-id>
  <vdu-type>session-function</vdu-type>
  <upp>
    <cores>30</cores>
    <crypto-cores>0</crypto-cores>
    <service-mode>vpc</service-mode>
    <disable-mcdma>>false</disable-mcdma>
    <disable-numa>>false</disable-numa>
  </upp>
  <ha-type>one-to-one</ha-type>
  <health-check-frequency>10</health-check-frequency>
  <health-probe-max-miss>6</health-probe-max-miss>
  <recovery-type>recovery-restart</recovery-type>
  <flavor>
    <vcpus>12</vcpus>
    <ram>16384</ram>
    <root-disk>6</root-disk>
    <ephemeral-disk>0</ephemeral-disk>
    <swap-disk>0</swap-disk>
    <host-aggregate>sf-service4</host-aggregate>
    <anti-affinity-placement>true</anti-affinity-placement>
  </flavor>
</vdu-catalog>
<volume-catalog>
  <volume-id>em-volume</volume-id>
  <volume>
    <type>LUKS</type>
    <size>1</size>
    <bus>ide</bus>
    <bootable>>false</bootable>
    <preserve-on-upgrade>>false</preserve-on-upgrade>
  </volume>
</volume-catalog>
<volume-catalog>
  <volume-id>cf-boot</volume-id>
  <volume>
    <type>LUKS</type>
    <size>16</size>
    <bus>ide</bus>
    <bootable>>true</bootable>
    <preserve-on-upgrade>>false</preserve-on-upgrade>
  </volume>
</volume-catalog>
<volume-catalog>
  <volume-id>cf-cdr</volume-id>
  <volume>
    <type>LUKS</type>
    <size>30</size>
    <bus>ide</bus>
    <bootable>>false</bootable>
    <preserve-on-upgrade>>true</preserve-on-upgrade>
  </volume>
</volume-catalog>
<network-catalog>
  <network-id>di-internal1</network-id>
  <pre-created>di-internal1</pre-created>
  <type>sriov-flat</type>
  <physnet>phys_pcie1_0</physnet>
  <ip-prefix>192.168.41.0/24</ip-prefix>
  <dhcp>>true</dhcp>
  <vlan-tag>>true</vlan-tag>
  <vlan>2114</vlan>
</network-catalog>
<network-catalog>

```

```

    <network-id>di-internal2</network-id>
    <pre-created>di-internal2</pre-created>
    <type>sriov-flat</type>
    <physnet>phys_pcie4_1</physnet>
    <ip-prefix>192.168.42.0/24</ip-prefix>
    <dhcp>>true</dhcp>
    <vlan-tag>>true</vlan-tag>
    <vlan>2114</vlan>
  </network-catalog>
</network-catalog>
<network-catalog>
  <network-id>service-network1</network-id>
  <pre-created>service1</pre-created>
  <type>sriov-flat</type>
  <physnet>phys_pcie1_1</physnet>
  <ip-prefix>10.10.41.0/24</ip-prefix>
  <dhcp>>true</dhcp>
  <vlan-tag>>true</vlan-tag>
  <vlan>2114</vlan>
</network-catalog>
</network-catalog>
<network-catalog>
  <network-id>service-network2</network-id>
  <pre-created>service2</pre-created>
  <type>sriov-flat</type>
  <physnet>phys_pcie4_0</physnet>
  <ip-prefix>20.20.42.0/24</ip-prefix>
  <dhcp>>true</dhcp>
  <vlan-tag>>true</vlan-tag>
  <vlan>2114</vlan>
</network-catalog>
</network-catalog>
<network-catalog>
  <network-id>management</network-id>
  <pre-created>auto-testautovnf4-uas-management</pre-created>
  <type>vlan</type>
  <ip-prefix>172.87.11.0/24</ip-prefix>
  <dhcp>>true</dhcp>
  <gateway>172.87.11.1</gateway>
</network-catalog>
</network-catalog>
<network-catalog>
  <network-id>orchestration</network-id>
  <pre-created>auto-testautovnf4-uas-orchestration</pre-created>
  <type>vlan</type>
  <ip-prefix>172.87.12.0/24</ip-prefix>
  <dhcp>>true</dhcp>
</network-catalog>
</network-catalog>
<vnf-deployment>
  <deployment-id>ab-vnfd-dep</deployment-id>
  <enable-vim>true</enable-vim>
  <vnf-em>
    <vdu-id>element-manager</vdu-id>
    <high-availability>true</high-availability>
    <ha-vip>172.87.11.103</ha-vip>
    <orchestration-network annotation="vnf-em floating-ip true vnf-em floating-ip-address
172.21.201.244">orchestration</orchestration-network>
    <management-network>management</management-network>
    <floating-ip>>false</floating-ip>
  </vnf-em>
  <vnf-param>
    <type>vpc</type>
    <configuration>
      <name>domain-name</name>
      <value>cisco.com</value>
    </configuration>
    <configuration>
      <name>dns-servers</name>
      <value>171.70.168.183</value>
    </configuration>
    <internal-network>
      <network>di-internal1</network>
    </internal-network>
    <internal-network>
      <network>di-internal2</network>
    </internal-network>
  </vnf-param>

```

```

<infra-element-groups>
  <name>di-chassis</name>
  <instances annotation="high-availability true">1</instances>
  <vdus>
    <vdu-id>CF</vdu-id>
    <vdu-ref>CF-vdu-ref</vdu-ref>
    <instances>2</instances>
    <high-availability>true</high-availability>
    <ha-vip>172.87.11.104</ha-vip>
    <ha-network>management</ha-network>
    <floating-ip>true</floating-ip>
    <interfaces annotation="floating-ip-address 172.25.22.76 high-availability true">
      <ifname>di_intf1</ifname>
      <network>di-internal1</network>
    </interfaces>
    <interfaces>
      <ifname>orch</ifname>
      <network>orchestration</network>
    </interfaces>
    <interfaces>
      <ifname>mgmt</ifname>
      <network>management</network>
      <uplink-actions>
        <action>mount-ned-nc</action>
      </uplink-actions>
    </interfaces>
    <interfaces>
      <ifname>di_intf2</ifname>
      <network>di-internal2</network>
    </interfaces>
    <interface-bonds>
      <bond>DI_INTERFACE</bond>
      <bond-interfaces>
        <interface>di_intf1</interface>
      </bond-interfaces>
      <bond-interfaces>
        <interface>di_intf2</interface>
      </bond-interfaces>
    </interface-bonds>
  </vdus>
</vdu>
<vdu>
  <vdu-id>SF</vdu-id>
  <vdu-ref>SF-vdu-ref</vdu-ref>
  <instances>4</instances>
  <interfaces>
    <ifname>di_intf1</ifname>
    <network>di-internal1</network>
  </interfaces>
  <interfaces>
    <ifname>orch</ifname>
    <network>orchestration</network>
  </interfaces>
  <interfaces>
    <ifname>svc_intf1</ifname>
    <network>service-network1</network>
  </interfaces>
  <interfaces>
    <ifname>svc_intf2</ifname>
    <network>service-network2</network>
  </interfaces>
  <interfaces>
    <ifname>di_intf2</ifname>
    <network>di-internal2</network>
  </interfaces>
  <interfaces>
    <ifname>svc_intf3</ifname>
    <network>service-network1</network>
  </interfaces>
  <interfaces>
    <ifname>svc_intf4</ifname>
    <network>service-network2</network>
  </interfaces>
</vdu>

```

```

    <interface-bonds>
      <bond>DI_INTERFACE</bond>
      <bond-interfaces>
        <interface>di_intf1</interface>
      </bond-interfaces>
      <bond-interfaces>
        <interface>di_intf2</interface>
      </bond-interfaces>
    </interface-bonds>
  </interface-bonds>
  <interface-bonds>
    <bond>SERVICE1_INTERFACE</bond>
    <bond-interfaces>
      <interface>svc_intf1</interface>
    </bond-interfaces>
    <bond-interfaces>
      <interface>svc_intf2</interface>
    </bond-interfaces>
  </interface-bonds>
  <interface-bonds>
    <bond>SERVICE2_INTERFACE</bond>
    <bond-interfaces>
      <interface>svc_intf3</interface>
    </bond-interfaces>
    <bond-interfaces>
      <interface>svc_intf4</interface>
    </bond-interfaces>
  </interface-bonds>
</vdus>
</infra-element-groups>
</vnf-deployment>
</vnfd>
<autovnfd xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy" annotation="#AutoVNF#1">
  <autovnfd-id>auto-testautovnf1</autovnfd-id>
  <scm>
    <admin>autovnf1-admin</admin>
    <oper>autovnf1-oper</oper>
  </scm>
  <networks>
    <external-network-name>public</external-network-name>
    <router>
      <pre-created>main</pre-created>
    </router>
    <management>
      <ip-prefix>172.57.11.0/24</ip-prefix>
      <router>main</router>
      <type>vlan</type>
      <dhcp>true</dhcp>
      <gateway-ip>172.57.11.1</gateway-ip>
      <floating-ip>true</floating-ip>
      <ha-vip>172.57.11.101</ha-vip>
      <floating-ip-address>172.21.201.70</floating-ip-address>
    </management>
    <orchestration>
      <ip-prefix>172.57.12.0/24</ip-prefix>
      <type>vlan</type>
      <dhcp>true</dhcp>
    </orchestration>
  </networks>
  <vnf-rackd>rack1</vnf-rackd>
  <login-credential>autovnf-login</login-credential>
  <vnf-package>package1</vnf-package>
  <volume-type>LUKS</volume-type>
  <ha-policy>
    <no-vm-reload>>false</no-vm-reload>
  </ha-policy>
  <cluster>
    <vip>172.57.11.101</vip>
    <anti-affinity>true</anti-affinity>
  </cluster>
  <flavor>
    <vcpus>2</vcpus>
    <ram>4096</ram>
    <root-disk>40</root-disk>
  </flavor>

```

```

    <ephemeral-disk>0</ephemeral-disk>
    <swap-disk>0</swap-disk>
    <host-aggregate>em-autovnf-mgmt1</host-aggregate>
  </flavor>
  <vnfm-id>ab-auto-test-vnfm1</vnfm-id>
  <vnfd>
    <vnfd-id>auto-testvnfd1</vnfd-id>
  </vnfd>
</autovnf>
<autovnf xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy" annotation="#AutoVNF#2">
  <autovnf-id>auto-testautovnf2</autovnf-id>
  <scm>
    <admin>autovnf1-admin</admin>
    <oper>autovnf1-oper</oper>
  </scm>
  <networks>
    <external-network-name>public</external-network-name>
    <router>
      <pre-created>main</pre-created>
    </router>
    <management>
      <ip-prefix>172.67.11.0/24</ip-prefix>
      <router>main</router>
      <type>vlan</type>
      <dhcp>>true</dhcp>
      <gateway-ip>172.67.11.1</gateway-ip>
      <floating-ip>true</floating-ip>
      <ha-vip>172.67.11.101</ha-vip>
      <floating-ip-address>172.21.201.71</floating-ip-address>
    </management>
    <orchestration>
      <ip-prefix>172.67.12.0/24</ip-prefix>
      <type>vlan</type>
      <dhcp>>true</dhcp>
    </orchestration>
  </networks>
  <vnf-rackd>rack2</vnf-rackd>
  <login-credential>autovnf-login</login-credential>
  <vnf-package>package2</vnf-package>
  <volume-type>LUKS</volume-type>
  <ha-policy>
    <no-vm-reload>>false</no-vm-reload>
  </ha-policy>
  <cluster>
    <vip>172.67.11.101</vip>
    <anti-affinity>true</anti-affinity>
  </cluster>
  <flavor>
    <vcpus>2</vcpus>
    <ram>4096</ram>
    <root-disk>40</root-disk>
    <ephemeral-disk>0</ephemeral-disk>
    <swap-disk>0</swap-disk>
    <host-aggregate>em-autovnf-mgmt2</host-aggregate>
  </flavor>
  <vnfm-id>ab-auto-test-vnfm2</vnfm-id>
  <vnfd>
    <vnfd-id>auto-testvnfd2</vnfd-id>
  </vnfd>
</autovnf>
<autovnf xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy" annotation="#AutoVNF#3">
  <autovnf-id>auto-testautovnf3</autovnf-id>
  <scm>
    <admin>autovnf1-admin</admin>
    <oper>autovnf1-oper</oper>
  </scm>
  <networks>
    <external-network-name>public</external-network-name>
    <router>
      <pre-created>main</pre-created>
    </router>
    <management>
      <ip-prefix>172.77.11.0/24</ip-prefix>

```

```

        <router>main</router>
        <type>vlan</type>
        <dhcp>true</dhcp>
        <gateway-ip>172.77.11.1</gateway-ip>
        <floating-ip>true</floating-ip>
        <ha-vip>172.77.11.101</ha-vip>
        <floating-ip-address>172.21.201.72</floating-ip-address>
    </management>
    <orchestration>
        <ip-prefix>172.77.12.0/24</ip-prefix>
        <type>vlan</type>
        <dhcp>true</dhcp>
    </orchestration>
</networks>
<vnf-rackd>rack3</vnf-rackd>
<login-credential>autovnf-login</login-credential>
<vnf-package>package3</vnf-package>
<volume-type>LUKS</volume-type>
<ha-policy>
    <no-vm-reload>>false</no-vm-reload>
</ha-policy>
<cluster>
    <vip>172.77.11.101</vip>
    <anti-affinity>true</anti-affinity>
</cluster>
<flavor>
    <vcpus>2</vcpus>
    <ram>4096</ram>
    <root-disk>40</root-disk>
    <ephemeral-disk>0</ephemeral-disk>
    <swap-disk>0</swap-disk>
    <host-aggregate>em-autovnf-mgmt3</host-aggregate>
</flavor>
<vnfm-id>ab-auto-test-vnfm3</vnfm-id>
<vnfd>
    <vnfd-id>auto-testvnfd3</vnfd-id>
</vnfd>
</autovnfd>
<autovnfd xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy" annotation="#AutoVNF#4">
    <autovnfd-id>auto-testautovnf4</autovnfd-id>
    <scm>
        <admin>autovnf1-admin</admin>
        <oper>autovnf1-oper</oper>
    </scm>
    <networks>
        <external-network-name>public</external-network-name>
        <router>
            <pre-created>main</pre-created>
        </router>
        <management>
            <ip-prefix>172.87.11.0/24</ip-prefix>
            <router>main</router>
            <type>vlan</type>
            <dhcp>true</dhcp>
            <gateway-ip>172.87.11.1</gateway-ip>
            <floating-ip>true</floating-ip>
            <ha-vip>172.87.11.101</ha-vip>
        </management>
        <orchestration>
            <ip-prefix>172.87.12.0/24</ip-prefix>
            <type>vlan</type>
            <dhcp>true</dhcp>
        </orchestration>
    </networks>
    <vnf-rackd>rack4</vnf-rackd>
    <login-credential>autovnf-login</login-credential>
    <vnf-package>package4</vnf-package>
    <volume-type>LUKS</volume-type>
    <ha-policy>
        <no-vm-reload>>false</no-vm-reload>
    </ha-policy>
    <cluster>
        <vip>172.87.11.101</vip>

```

```

    <anti-affinity>true</anti-affinity>
  </cluster>
  <flavor>
    <vcpus>2</vcpus>
    <ram>4096</ram>
    <root-disk>40</root-disk>
    <ephemeral-disk>0</ephemeral-disk>
    <swap-disk>0</swap-disk>
    <host-aggregate>em-autovnf-mgmt4</host-aggregate>
  </flavor>
  <vnfm-id>ab-auto-test-vnfm4</vnfm-id>
  <vnfd>
    <vnfd-id>auto-testvnfd4</vnfd-id>
  </vnfd>
</autovnf>
<sited xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
  <sited-id>auto-test-sjc</sited-id>
  <auto-it-vim>
    <type>openstack</type>
    <auth-url>http://172.21.201.213:5000/v2.0</auth-url>
    <tenant>core</tenant>
    <secure-token>core</secure-token>
  </auto-it-vim>
  <auto-it-vnf>
    <ip-address>172.21.201.55</ip-address>
    <port>5001</port>
    <authentication-info>autoit-vnf-token</authentication-info>
  </auto-it-vnf>
  <auto-it-nfvi>
    <scm>
      <admin>autovnf1-admin</admin>
      <oper>autovnf1-oper</oper>
    </scm>
  </auto-it-nfvi>
  <autovnfd>
    <autovnfd-id>auto-testautovnf1</autovnfd-id>
  </autovnfd>
</sited>
<service-deployment xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
  <service-deployment-id>north-east</service-deployment-id>
  <description>Single site Single Vnf ServiceDeployment</description>
  <sited>
    <sited-id>auto-test-sjc</sited-id>
    <site-ref>auto-test-sjc</site-ref>
  </sited>
</service-deployment>
</config>

```