# Sample UWS VIM Orchestrator and VIM Configuration File

The VIM Orchestrator and VIM configuration file dictates the deployment of the VIM Orchestrator (Undercloud) and VIM (Overcloud). 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 combined VIM Orchestrator and VIM configuration file used to install these items through UWS within Ultra M deployments based on OSP 10 and that leverage the Hyper-Converged architecture.

⚠️ **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
- NFVI PoP details
- VIM orchestrator details
- VIM details
- VIM node details
- Site details
- Networking details
- Service deployment details

```xml
<?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>autonfvi-admin-netconf</secure-id>
    <user>admin</user>
    <password>********</password>
  </secure-token>
  <secure-token xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
    <secure-id>autonfvi-oper-netconf</secure-id>
    <user>oper</user>
    <password>********</password>
  </secure-token>
  <secure-token xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
    <secure-id>autoit-nfvi-ospd</secure-id>
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        <user>stack</user>
        <password>********</password>
      </secure-token>
      <secure-token xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
        <secure-id>autoit-nfvi-login</secure-id>
        <user>ubuntu</user>
        <password>********</password>
      </secure-token>
      <secure-token xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
        <secure-id>cimc-login</secure-id>
        <user>admin</user>
        <password>********</password>
      </secure-token>
      <secure-token xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
        <secure-id>ssh-baremetal</secure-id>
        <user>nfvi</user>
        <password>********</password>
      </secure-token>
      <nfvi-popd xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
        <name>uws-nfvi-pop</name>
        <deployment-flavor>ucs-1-vnf</deployment-flavor>
        <nfvi-node>
          <nfvi-node-id>autoit-nfvi-physical-node</nfvi-node-id>
          <description>nfvi-pop</description>
          <physical-server-manager>
          <ip-address annotation="physical-network-interface [ 00:2c:c8:da:29:4b
]">192.100.3.1</ip-address>
            <login-credential>cimc-login</login-credential>
          </physical-server-manager>
        </nfvi-node>
        <nfvi-node>
          <nfvi-node-id>node_1</nfvi-node-id>
          <physical-server-manager>
            <ip-address>192.100.3.5</ip-address>
            <login-credential>cimc-login</login-credential>
          </physical-server-manager>
        </nfvi-node>
        <nfvi-node>
          <nfvi-node-id>node_2</nfvi-node-id>
          <physical-server-manager>
            <ip-address>192.100.3.6</ip-address>
            <login-credential>cimc-login</login-credential>
          </physical-server-manager>
        </nfvi-node>
        <nfvi-node>
          <nfvi-node-id>node_3</nfvi-node-id>
          <physical-server-manager>
            <ip-address>192.100.3.7</ip-address>
            <login-credential>cimc-login</login-credential>
          </physical-server-manager>
        </nfvi-node>
        <nfvi-node>
          <nfvi-node-id>node_4</nfvi-node-id>
          <physical-server-manager>
            <ip-address>192.100.3.8</ip-address>
            <login-credential>cimc-login</login-credential>
          </physical-server-manager>
        </nfvi-node>
        <nfvi-node>
          <nfvi-node-id>node_5</nfvi-node-id>
          <physical-server-manager>
            <ip-address>192.100.3.9</ip-address>
            <login-credential>cimc-login</login-credential>
          </physical-server-manager>
        </nfvi-node>
        <nfvi-node>
          <nfvi-node-id>node_6</nfvi-node-id>
          <physical-server-manager>
            <ip-address>192.100.3.10</ip-address>
            <login-credential>cimc-login</login-credential>
          </physical-server-manager>
        </nfvi-node>
        <nfvi-node>
```

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            <nfvi-node-id>node_7</nfvi-node-id>
            <physical-server-manager>
              <ip-address>192.100.3.11</ip-address>
              <login-credential>cimc-login</login-credential>
            </physical-server-manager>
          </nfvi-node>
          <nfvi-node>
            <nfvi-node-id>node_8</nfvi-node-id>
            <physical-server-manager>
              <ip-address>192.100.3.12</ip-address>
              <login-credential>cimc-login</login-credential>
            </physical-server-manager>
          </nfvi-node>
          <nfvi-node>
            <nfvi-node-id>node_9</nfvi-node-id>
            <physical-server-manager>
              <ip-address>192.100.3.13</ip-address>
              <login-credential>cimc-login</login-credential>
            </physical-server-manager>
          </nfvi-node>
          <nfvi-node>
            <nfvi-node-id>node_10</nfvi-node-id>
            <physical-server-manager>
              <ip-address>192.100.3.14</ip-address>
              <login-credential>cimc-login</login-credential>
            </physical-server-manager>
          </nfvi-node>
          <nfvi-node>
            <nfvi-node-id>node_11</nfvi-node-id>
            <physical-server-manager>
              <ip-address>192.100.3.15</ip-address>
              <login-credential>cimc-login</login-credential>
            </physical-server-manager>
          </nfvi-node>
          <nfvi-node>
            <nfvi-node-id>node_12</nfvi-node-id>
            <physical-server-manager>
              <ip-address>192.100.3.16</ip-address>
              <login-credential>cimc-login</login-credential>
            </physical-server-manager>
          </nfvi-node>
          <nfvi-node>
            <nfvi-node-id>node_13</nfvi-node-id>
            <physical-server-manager>
              <ip-address>192.100.3.17</ip-address>
              <login-credential>cimc-login</login-credential>
            </physical-server-manager>
          </nfvi-node>
          <nfvi-node>
            <nfvi-node-id>node_14</nfvi-node-id>
            <physical-server-manager>
              <ip-address>192.100.3.18</ip-address>
              <login-credential>cimc-login</login-credential>
            </physical-server-manager>
          </nfvi-node>
          <nfvi-node>
            <nfvi-node-id>node_15</nfvi-node-id>
            <physical-server-manager>
              <ip-address>192.100.3.19</ip-address>
              <login-credential>cimc-login</login-credential>
            </physical-server-manager>
          </nfvi-node>
          <nfvi-node>
            <nfvi-node-id>node_16</nfvi-node-id>
            <physical-server-manager>
              <ip-address>192.100.3.20</ip-address>
              <login-credential>cimc-login</login-credential>
            </physical-server-manager>
          </nfvi-node>
          <nfvi-node>
            <nfvi-node-id>node_17</nfvi-node-id>
            <physical-server-manager>
              <ip-address>192.100.3.21</ip-address>
```

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            <login-credential>cimc-login</login-credential>
          </physical-server-manager>
        </nfvi-node>
        <nfvi-node>
          <nfvi-node-id>node_18</nfvi-node-id>
          <physical-server-manager>
            <ip-address>192.100.3.22</ip-address>
            <login-credential>cimc-login</login-credential>
          </physical-server-manager>
        </nfvi-node>
        <nfvi-node>
          <nfvi-node-id>node_19</nfvi-node-id>
          <physical-server-manager>
            <ip-address>192.100.3.23</ip-address>
            <login-credential>cimc-login</login-credential>
          </physical-server-manager>
        </nfvi-node>
        <nfvi-node>
          <nfvi-node-id>node_20</nfvi-node-id>
          <physical-server-manager>
            <ip-address>192.100.3.24</ip-address>
            <login-credential>cimc-login</login-credential>
          </physical-server-manager>
        </nfvi-node>
        <nfvi-node>
          <nfvi-node-id>node_21</nfvi-node-id>
          <physical-server-manager>
            <ip-address>192.100.3.25</ip-address>
            <login-credential>cimc-login</login-credential>
          </physical-server-manager>
        </nfvi-node>
        <nfvi-node>
          <nfvi-node-id>node_22</nfvi-node-id>
          <physical-server-manager>
            <ip-address>192.100.3.26</ip-address>
            <login-credential>cimc-login</login-credential>
          </physical-server-manager>
        </nfvi-node>
    </nfvi-popd>
    <vim-orchd xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
      <name>sjc-vim-orch</name>
      <hostname>sjc-undercloud-AB</hostname>
      <domain-name>cisco.com</domain-name>
      <dns>171.70.168.183</dns>
      <login-credential>autoit-nfvi-ospd</login-credential>
      <satellite-server>
        <ip-address annotation="! ## SATELLITE-SERVER-CONFIG ## !!">10.23.252.119</ip-address>

        <hostname>rh-satellite</hostname>
        <domain-name>cisco.com</domain-name>
        <organization>ultram</organization>
        <activation-key>openstack 10</activation-key>
        <pool-id>8a977cf75c0ca9df015d2ce1cb4d06ab</pool-id>
      </satellite-server>
      <external-network>
        <ip-address>172.25.22.56</ip-address>
        <netmask>255.255.255.0</netmask>
      </external-network>
      <provisioning-network>
        <ip-address>192.200.0.1</ip-address>
        <netmask>255.0.0.0</netmask>
        <public-vip>192.200.0.2</public-vip>
        <admin-vip>192.200.0.3</admin-vip>
        <dhcp-ip-range>
          <start>192.200.0.101</start>
          <end>192.200.0.150</end>
        </dhcp-ip-range>
        <inspection-ip-range>
          <start>192.200.0.201</start>
          <end>192.200.0.250</end>
        </inspection-ip-range>
      </provisioning-network>
      <network-cidr>192.0.0.0/8</network-cidr>
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      <masquerade-network>192.0.0.0/8</masquerade-network>
      <flavor>
        <vcpus>4</vcpus>
        <ram>16384</ram>
        <root-disk>100</root-disk>
        <ephemeral-disk>0</ephemeral-disk>
        <swap-disk>0</swap-disk>
      </flavor>
      <nfvi-node>
        <id>autoit-nfvi-physical-node</id>
        <ip-address>172.25.22.59</ip-address>
        <login-credential>ssh-baremetal</login-credential>
      </nfvi-node>
      <image annotation="! ## CDN SERVER CONFIG ## !! cdn-server login-credential subs
cdn-server proxy proxy-wsa.esl.cisco.com:80 cdn-server pool-id
8a85f9815788809a01578b1e1cbd2275 ! ## SUBSCRIPTION MANAGER (DEV SETUP) ## !!
subscription-manager login-credential autonfvi-subscription subscription-manager proxy
proxy-wsa.esl.cisco.com:80 !">/home/ubuntu/rhel-server-7.3-x86_64-dvd.iso</image>
    </vim-orchd>
    <vimd xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
      <name>vnf1-vim</name>
      <nfvi-nodes>
        <id>node_1</id>
        <role>vim-controller</role>
      </nfvi-nodes>
      <nfvi-nodes>
        <id>node_2</id>
        <role>vim-controller</role>
      </nfvi-nodes>
      <nfvi-nodes>
        <id>node_3</id>
        <role>vim-controller</role>
      </nfvi-nodes>
      <nfvi-nodes>
        <id>node_4</id>
        <role>vim-compute</role>
      </nfvi-nodes>
      <nfvi-nodes>
        <id>node_5</id>
        <role>vim-compute</role>
      </nfvi-nodes>
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      </nfvi-nodes>
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        <id>node_11</id>
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      </nfvi-nodes>
      <nfvi-nodes>
        <id>node_12</id>
        <role>vim-compute</role>
      </nfvi-nodes>
      <nfvi-nodes>
        <id>node_13</id>
        <role>vim-compute</role>
      </nfvi-nodes>
```

```
<nfvi-nodes>
  <id>node_14</id>
  <role>vim-compute</role>
</nfvi-nodes>
<nfvi-nodes>
  <id>node_15</id>
  <role>vim-compute</role>
</nfvi-nodes>
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<nfvi-nodes>
  <id>node_19</id>
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</nfvi-nodes>
<nfvi-nodes>
  <id>node_20</id>
  <role>vim-osd-compute</role>
</nfvi-nodes>
<nfvi-nodes>
  <id>node_21</id>
  <role>vim-osd-compute</role>
</nfvi-nodes>
<nfvi-nodes>
  <id>node_22</id>
  <role>vim-osd-compute</role>
</nfvi-nodes>
<networking>
  <dns>171.70.168.183</dns>
  <ntp>172.24.167.109</ntp>
  <network-types>
    <type>internal-api</type>
    <ip-prefix>11.120.0.0/24</ip-prefix>
    <vlan-id>20</vlan-id>
    <allocation-pool>
      <start>11.120.0.40</start>
      <end>11.120.0.200</end>
    </allocation-pool>
  </network-types>
  <network-types>
    <type>tenant</type>
    <ip-prefix>11.117.0.0/24</ip-prefix>
    <vlan-id>17</vlan-id>
    <allocation-pool>
      <start>11.117.0.40</start>
      <end>11.117.0.200</end>
    </allocation-pool>
  </network-types>
  <network-types>
    <type>storage</type>
    <ip-prefix>11.118.0.0/24</ip-prefix>
    <vlan-id>18</vlan-id>
    <allocation-pool>
      <start>11.118.0.40</start>
      <end>11.118.0.200</end>
    </allocation-pool>
  </network-types>
  <network-types>
    <type>storage-mgmt</type>
    <ip-prefix>11.119.0.0/24</ip-prefix>
    <vlan-id>19</vlan-id>
    <allocation-pool>
      <start>11.119.0.40</start>
      <end>11.119.0.200</end>
```

```
              </allocation-pool>
            </network-types>
            <network-types>
              <type>external</type>
              <ip-prefix>172.25.22.0/24</ip-prefix>
              <vlan-id>522</vlan-id>
              <allocation-pool>
                <start>172.25.22.61</start>
                <end>172.25.22.70</end>
              </allocation-pool>
              <default-route>172.25.22.1</default-route>
            </network-types>
            <vlan-pool>
              <start>20</start>
              <end>200</end>
            </vlan-pool>
          </networking>
        </vimd>
        <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://172.25.22.67:5000/v2.0</auth-url>
            <tenant>core</tenant>
          </auto-it-vim -->
          <auto-it-nfvi>
            <scm-admin annotation="auto-it-vim type openstack auto-it-vim auth-url
http://172.25.22.67:5000/v2.0 auto-it-vim tenant core">autonfvi-admin-netconf</scm-admin>

            <scm-oper>autonfvi-oper-netconf</scm-oper>
            <ip-address>172.25.22.60</ip-address>
            <authentication-info>autoit-nfvi-login</authentication-info>
          </auto-it-nfvi>
          <nfvi-pop>uws-nfvi-pop</nfvi-pop>
          <vim-orch>sjc-vim-orch</vim-orch>
          <vim>vnf1-vim</vim>
        </sited>
        <service-deployment xmlns="http://www.cisco.com/usp/nfv/usp-autodeploy">
          <service-deployment-id>north-east</service-deployment-id>
          <description>Single site multiple Vnfs ServiceDeployment</description>
          <sited>
            <sited-id>auto-test-sjc</sited-id>
            <site-ref>auto-test-sjc</site-ref>
          </sited>
        </service-deployment>
      </config>
```