



# Configuring Deployment Parameters

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## Deployment Parameters

A VNF deployment is initiated as a service request through the northbound interface or the ESC portal. The service request comprises of templates that consist of XML payloads and deployment parameters. Deployment parameters are rules, policies or day 0 configuration that determine properties of the VNF and its lifecycle. The table below lists the complete list of deployment parameters and how they interoperate on OpenStack or VMware vCenter:

Deployment Parameters	OpenStack	VMware vCenter	VMware vCloud Director
Day 0 Configuration	Day 0 configuration is done in one of the following ways: <ul style="list-style-type: none"> <li>• NETCONF API</li> <li>• REST API</li> <li>• ESC Portal</li> </ul>	Day 0 configuration is done in one of the following ways: <ul style="list-style-type: none"> <li>• NETCONF API</li> <li>• REST API</li> <li>• ESC Portal</li> </ul>	<ul style="list-style-type: none"> <li>• NETCONF API</li> <li>• REST API</li> <li>• ETSI API</li> </ul>
Deploying VNFs	Configuration of Individual and Composite VNFs is done in one of the following ways: <ul style="list-style-type: none"> <li>• NETCONF API</li> <li>• REST API</li> <li>• ESC Portal (You can deploy using the Deployment Template.)</li> </ul>	Configuration of Individual and Composite VNFs is done in one of the following ways: <ul style="list-style-type: none"> <li>• NETCONF API</li> <li>• REST API</li> <li>• ESC Portal (You can configure the VNF settings through the Deployment Form, or the Deployment Template.)</li> </ul>	Configuration of Individual and Composite VNFs is done in one of the following ways: <ul style="list-style-type: none"> <li>• NETCONF API</li> <li>• REST API</li> <li>• ETSI API</li> </ul>

Deployment Parameters	OpenStack	VMware vCenter	VMware vCloud Director
Undeploy Virtual Network Functions	<p>Undeploying is done in one of the following ways:</p> <ul style="list-style-type: none"> <li>• NETCONF API</li> <li>• REST API</li> <li>• ESC Portal</li> </ul>	<p>Undeploying VNFs is done in one of the following ways:</p> <ul style="list-style-type: none"> <li>• NETCONF API</li> <li>• REST API</li> <li>• ESC Portal</li> </ul>	<p>Undeploying VNFs is done in one of the following ways:</p> <ul style="list-style-type: none"> <li>• NETCONF API</li> <li>• REST API</li> <li>• ETSI API</li> </ul>
Affinity and anti-affinity Rule	<p>Creating and deleting affinity and anti-affinity rule definitions is done in one of the following ways:</p> <ul style="list-style-type: none"> <li>• NETCONF API</li> <li>• REST API</li> </ul>	<p>Creating and deleting affinity rule definition in one of the following ways:</p> <ul style="list-style-type: none"> <li>• NETCONF API</li> <li>• REST API</li> <li>• ESC Portal (You can set up affinity and anti-affinity using the Deployment Form.)</li> </ul>	<p>Creating and deleting affinity and anti-affinity rule definitions is done in one of the following ways:</p> <ul style="list-style-type: none"> <li>• NETCONF API</li> <li>• REST API</li> <li>• ETSI API</li> </ul>
VNF Operations	<p>VNF Operations are done in one of the following ways:</p> <ul style="list-style-type: none"> <li>• REST API</li> <li>• NETCONF API</li> <li>• ESC Portal</li> </ul>	<p>VNF Operations are done in one of the following ways:</p> <ul style="list-style-type: none"> <li>• REST API</li> <li>• NETCONF API</li> <li>• ESC Portal</li> </ul> <p>For more information, see the <a href="#">Elastic Services Controller Portal</a>.</p>	<p>VNF Operations are done in one of the following ways:</p> <ul style="list-style-type: none"> <li>• REST API</li> <li>• NETCONF API</li> <li>• ETSI API</li> </ul>
Multi Cluster	Not applicable	<p>Multi Cluster configuration is done in one of the following ways:</p> <ul style="list-style-type: none"> <li>• REST API</li> <li>• ESC Portal</li> </ul> <p>For more information, see the <a href="#">Deploying VNFs on VMware vCenter using ESC Portal</a>.</p>	Not applicable
Multiple Virtual Datacenter (Multi VDC)	Not applicable	<p>Multiple Virtual Datacenter selection is done in one of the following ways:</p> <ul style="list-style-type: none"> <li>• REST API</li> <li>• ESC Portal</li> </ul>	Not applicable

Deployment Parameters	OpenStack	VMware vCenter	VMware vCloud Director
Hardware Acceleration	<p>Hardware Acceleration is supported in one of the following ways:</p> <ul style="list-style-type: none"> <li>• NETCONF API</li> <li>• REST API</li> </ul> <p>For more information, see the Hardware Acceleration Support (OpenStack Only) in the Cisco Elastic Services Controller Administration Guide.</p>	Not applicable	Not applicable
Single Root I/O Virtualization	<p>Configuration of Single Root I/O Virtualization is done in one of the following ways:</p> <ul style="list-style-type: none"> <li>• NETCONF API</li> <li>• REST API</li> </ul>	<p>Configuration of Single Root I/O Virtualization is done in one of the following ways:</p> <ul style="list-style-type: none"> <li>• NETCONF API</li> <li>• REST API</li> </ul>	Not applicable

This chapter describes the procedures to configure the deployment customization. For more information on VNF deployment, see [Deploying Virtual Network Functions on OpenStack](#).

