

Instantiate OpenStack VNF Using EO

Call Session Control Function

OPERATING INSTRUCTIONS

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Contents

1	Description	1
2	Procedure	3
2.1	Instantiate a VNF	3
2.2	Troubleshooting	4





1 Description

This instruction describes how to instantiate a Virtual Network Function (VNF) using Ericsson Orchestrator (EO). Instantiation in EO consists of preparatory steps, during which HOT files, the VNF configuration file, and other cloud infrastructure-related input are provided. The actual instantiation is done by EO triggering an instantiation workflow in VNF Lifecycle Manager (VNF-LCM).

Note: It is not recommended to perform any lifecycle operation using VNF-LCM on a VNF that was instantiated using EO.





2 Procedure

2.1 Instantiate a VNF

Prerequisites

- The VNF is onboarded on the EO.
- The following virtual and physical hardware and software are required:
 - EO version 18.0 or higher is available.
 - One of the following Virtual Infrastructure Managers (VIMs) is used:
 - OpenStack Mitaka or newer
 - CEE R6 or newer
 - In EO, the VIM zone, VDC, and SRT are configured, the external Virtual Network Function Manager (VNFM) is registered. For more information on configuring EO, see System Administrator Guide 1543-CNH 160 9180.
- No documents are required.
- No tools are required.



Attention!

Risk of system malfunction or traffic disturbance.

Do not execute a workflow instance on a VNF while another is in progress, as it can lead to unexpected behavior. If a new workflow procedure is needed, terminate the ongoing procedure before starting a new.

Steps

1. In the EO, start a new **VAPP**.
2. In **Resources > Packages**, select the package to deploy and click **Deploy**.
3. On the **Search for Offers** screen, select values for the mandatory fields, and click **Next**.
4. On the **Set VIM Criteria** screen, click **Next**.
5. On the **Choose VIM Zone** screen, select the desired VIM zone, and click **Next**.



6. On the **Enter Attributes** screen, provide values for the fields of the **VAPP Attributes** tab:
 - **Virtual Application Name**, which is also the name of the Heat stack
 - **VNF Manager** (The one chosen during onboarding is preselected.)
 - **Flavor** (The virtual hardware configuration of the VNF. For example, the number of vCPUs and memory size.)

Note: The value provided for **Flavor** is not used at this point, but as it is a mandatory field, a dummy value must be provided.

7. On the **Enter Attributes** screen, provide the `VNFD_Wrapper.json` file on the **Configuration** tab.

It is possible to overwrite the `VNFD_Wrapper.json` file provided during onboarding either by uploading an updated file or by modifying the attribute values on the **Configuration** tab.

8. Click **Submit Order** to finalize instantiation.

Result:

On the opening window, by clicking **View Asset List**, you can check the status of the instantiation order. EO triggers an instantiation workflow in VNF-LCM, and the VNF becomes visible in the VNFM used.

2.2 Troubleshooting

If the workflow execution fails, inspect the relevant logs to identify the cause of the failure.

Steps

1. Increase the log level from INFO to DEBUG. For information on how to change log level, see VNF Lifecycle Manager System Administrator Guide, 1543-APR 901 0578.
2. Inspect the following logs to identify the cause of the failure:
 - Jboss Server log: `/ericsson/3pp/jboss/standalone/log/server.log`
 - System log: `/var/log/messages`
 - Workflow log: the **Workflow Log** view in the VNF-LCM
3. If the **Workflow Log** view reports `Authentication failed`, repair the Secure Shell (SSH) key between the VNF-LCM and the CSCF. See Section [Check SSH Key for Authentication in CSCF Troubleshooting Guideline](#).
4. If a problem cannot be solved, consult the next level of maintenance support and provide the logs. Further actions are outside the scope of this instruction.