

Scale In VNF

MTAS

OPERATING INSTRUCTIONS

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Contents

1	Description	1
2	Procedure	1
2.1	Scale In a VNF	1
2.2	Troubleshooting	4

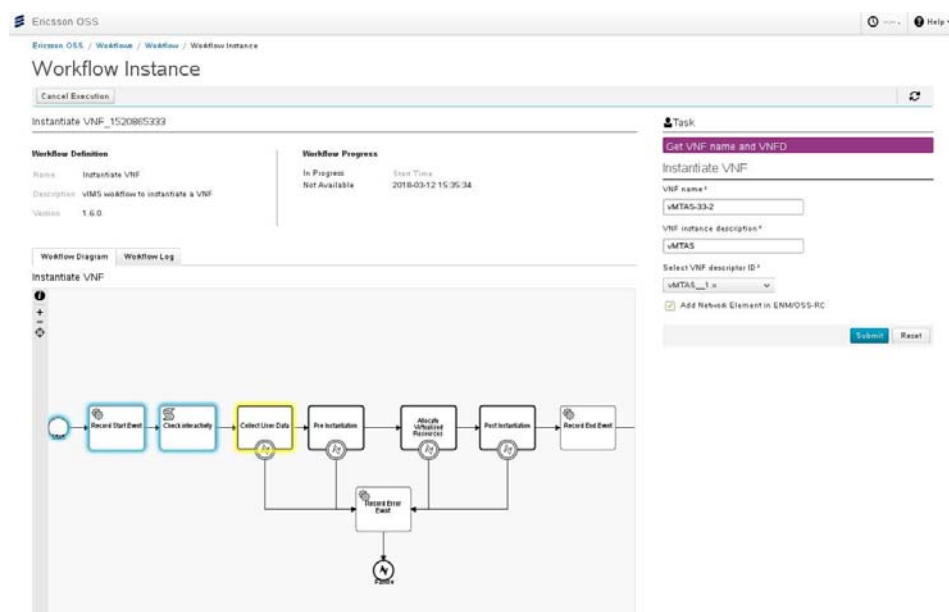




1 Description

This instruction describes how to scale in a Virtualized Network Function (VNF) in the VNF Lifecycle Management (VNF-LCM).

The VNF-LCM procedures use workflow instances. The following figure shows an example of a workflow instance, where workflow progress can be tracked in the **Workflow Diagram** view. The boxes in the **Workflow Diagram** only represent the stages of the various procedures; operations are performed in the **Task** view.



For more information about the VNF-LCM, see MTAS VNF Lifecycle Management.

2 Procedure

2.1 Scale In a VNF

Prerequisites

- No tools are required.
- The following conditions must apply:
 - The VNF is instantiated using the VNF-LCM.

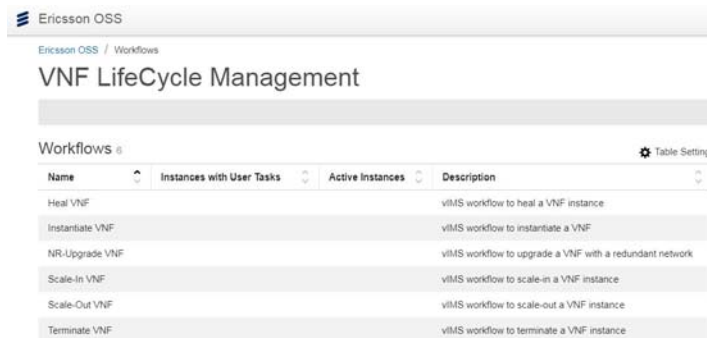


- The system has sufficient memory. If the system has insufficient memory, the DBS, Memory Limit Reached alarm appears.

For more information, see MTAS Troubleshooting Guideline.

Steps

1. In the VNF-LCM, click **Start a Workflow**, select **Scale-In VNF**, and click **Start a New Instance**.



2. In the **Start a Workflow** view, fill out the **Instance Name** field and then click **Submit**.
3. Select the newly created workflow from the **Instance Activity** panel.
4. In the **Workflow Instance** view, select the VNF to be scaled in, specify the number of Virtual Machines (VMs) to be deleted from the VNF, and then click **Submit**.

The screenshot shows the 'Task' view for 'Scale-In VNF instance'. It has a purple header bar with the text 'Collect user data for Scale-In'. Below this is the title 'Scale-In VNF instance'. The 'Scale-In Data' section contains a dropdown menu for 'Select VNF instance' with the value 'vMTAS-33-2' selected. Below this is a text input field for 'Number of VMs to Scale-In' with the value '1' entered. At the bottom right, there are two buttons: 'Submit' and 'Reset'.

The following step is optional. If none of these parameters are needed, leave the fields blank.

5. In the **Collect extra parameters** view, select **Scale-in type**, specify the needed parameters, and then click **Submit**.



Note: If the EO and the VNF-LCM are in a mutually granting connection, the number of scaled PLs appears in the EO after a successful scale-in from the VNF-LCM.

Optional scale-in parameters:

- Specific VMs to be scaled in
- VM locking method (**Graceful** or **Forceful**)

Note: FORCEFUL scale-in is a disruptive action, therefore it is only to be used to scale in unavailable or failed PLs. The virtual resources reserved for the PLs are freed up first and then the MTAS cluster is “cleaned”.

- If VMs are locked gracefully: a timer for graceful lock

Task

Collect extra parameters

Input additional parameters for workflow

Optional: List of VM UUIDs to scale-in

Scale-in type

GRACEFUL

FORCEFUL

Submit

Reset

Note: If any UUID is specified, the VMs with the specified UUIDs are deleted. Otherwise, VMs with the highest index in their name in the OpenStack are deleted.




Attention!

Risk of system malfunction or traffic disturbance.



During the scaling, the optional user input **Cancel LCM Hook** is available. Do not click **Submit**. This is not supported in the current release.

 Task

OPTIONAL: Override User Input

OPTIONAL: Cancel LCM hook

This user form is a possibility to gracefully or forcefully cancel LCM hook in case of unexpectedly long execution time, faulty initial inputs or other cases. It is not mandatory, and the execution may complete without it being submitted. To keep track of progress, please use the refresh button occasionally.

Select cancellation method:

Gracefully cancel executi... ▼

Submit

Reset

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 Administration 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 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.