

Atlas Dashboard Administrator User Guide

Cloud Execution Environment

USER GUIDE

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1 Introduction

This administrator guide describes the Ericsson Atlas dashboard modifications compared to the OpenStack dashboard (Horizon). It also adds examples on features not described in the community user guide. For detailed information about the OpenStack dashboard (Horizon) from an administrator perspective, refer to the *OpenStack Administrator Guide*. For further information on supported options, refer to the relevant document:

- *OpenStack Networking API in CEE in BSP Deployment*
- *OpenStack Networking API in CEE in HP and Dell Multi-Server Deployment*
- *OpenStack Networking API in CEE in Single Server Deployment*

The target group of the document consists of the CEE administrators using the Atlas Graphical User Interface (GUI) for their operations. Log on as admin user.



2 GUI Description

This section describes the GUI of Atlas used in CEE.

Note: Atlas is best viewed using Google Chrome™ but it also supports Mozilla Firefox® 40.0+.

To enter Atlas, the user name and password of the admin user must be typed in at the login screen shown in Figure 1.

Note: If the admin user password is changed via the GUI, log on to Atlas CLI and execute the following steps manually:

```
atlasadm@atlas:~$ source openrc
atlasadm@atlas:~$ export OS_PASSWORD=new_password
```



Figure 1 Atlas Login Screen

Figure 2 shows the GUI elements used for the operations in Atlas.

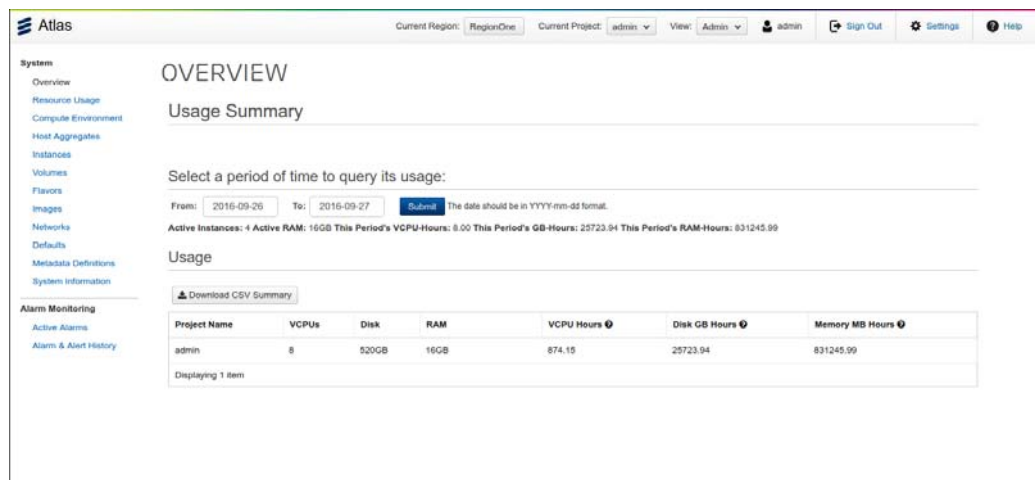


Figure 2 Atlas GUI Elements

The following GUI elements are available in the screen:

Categories	The menu items on the left are called categories in the OpenStack terminology.
Current Project	The user must select a tenant from this drop-down menu.
Current Region	The name of the current region is displayed.
View	The user must select a view from the drop-down menu, that is, the area of operations the user wants to reach.
User	The name of the user logged in is displayed.
Sign Out	Click on the icon to sign out from Atlas.
Settings	Click on the icon to change password or other user settings.
Help	Click on the icon to display help for using the Atlas GUI, and for product information.

There are three initial steps common to operations in this document:

1. Log on to the Atlas dashboard as admin user.
2. Select the appropriate project in the **Current Project** field, and select **Admin** in the **View** field.
3. Click the **<Operation>** category which is related to that operation.

Note: In case of an expired certificate, update the certificate. Otherwise, proceed at your own risk.



3 Manage Networks

This section describes how to manage networks. An overview of the **Networks** screen is shown in Figure 3.

Project	Network Name	Subnets Associated	DHCP Agents	Shared	External	Status	Admin State	Actions
admin	VPP_OVF_NET_VRP_MQM1	VPP_OVF_NET_VRP_MQM1_subnet 127.4.0.0/16	3	No	Yes	Active	UP	Edit Network
admin	VPP_OVF_NET_INTRNL2	VPP_OVF_NET_INTRNL2_subnet 172.17.2.0/24	3	No	Yes	Active	UP	Edit Network
admin	VPP_OVF_NET_BP1	VPP_OVF_NET_BP1_subnet 127.3.0.0/16	3	No	Yes	Active	UP	Edit Network
admin	VPP_OVF_NET_INTRNL1	VPP_OVF_NET_INTRNL1_subnet 172.17.1.0/24	3	No	Yes	Active	UP	Edit Network
admin	provider_51	provider_51-sub 10.33.130.32/27	3	No	No	Active	UP	Edit Network
admin	VPP_OVF_NET_VSLC2_SLOT2_FP1	VPP_OVF_NET_VSLC2_SLOT2_FP1_subnet 172.22.1.0/24	3	No	Yes	Active	UP	Edit Network
admin	VPP_OVF_NET_VSLC2_SLOT2_FP1	VPP_OVF_NET_VSLC2_SLOT2_FP1_subnet 172.23.1.0/24	3	No	Yes	Active	UP	Edit Network
admin	VPP_OVF_NET_DBG	VPP_OVF_NET_DBG_subnet 172.16.100.0/24	3	No	Yes	Active	UP	Edit Network
admin	VPP_OVF_NET_VRP_MQM2	VPP_OVF_NET_VRP_MQM2_subnet 127.14.0.0/16	3	No	Yes	Active	UP	Edit Network
admin	N1	N1_subnet 10.0.0.0/24	3	No	Yes	Active	UP	Edit Network
admin	clmox_net2	clmox_subnet2 10.1.1.0/24	3	No	No	Active	UP	Edit Network
admin	N1	Subnet 13.0.0.0/24	3	No	Yes	Active	UP	Edit Network

Figure 3 Overview of the Networks Screen

For further information on CEE network interfaces, refer to the relevant document:

- *OpenStack Networking API in CEE in BSP Deployment*
- *OpenStack Networking API in CEE in HP and Dell Multi-Server Deployment*
- *OpenStack Networking API in CEE in Single Server Deployment*

3.1 Create Network

To create a network, perform the following steps:

1. Log on to the Atlas dashboard, select the appropriate project with admin view, and click the **Networks** category.
2. Click **Create Network**.

Atlas shows the network in the Networks category.

3. In the **Networks** window, specify the following fields:



Name	Description or Action
Name (Optional)	A name to identify the network.
Project	A project for the network.
Provide Network Type	Select any of the following options: Local, VLAN, GRE, and VXLAN. If the network type is VLAN, select Physical Network and Segmentation ID.
Admin State	Set Admin State to Down.
Shared (Optional)	Check this option to set the network as shared.
External Network (Optional)	Check this option to set the network as external.

Note: GRE stands for Generic Routing Encapsulation, a tunneling protocol to encapsulate different network layer protocols inside virtual point-to-point links over an Internet Protocol network. CEE only supports VLAN networks.

3.2 Create Subnet

To create a subnet, perform the following steps:

1. Log on to the Atlas dashboard, select the appropriate project with admin view, and click the **Networks** category.
2. Select a network for the subnet to be created.
3. Click **Create Subnet**.
4. In the **Create Subnet** window, specify the following fields:

Name	Description or Action
Subnet Name (Optional)	A name to identify the subnet
Network Address	Specify the IP address of the subnet.
IP Version	Select either IPv4 or IPv6.



Name	Description or Action
Gateway IP (Optional)	The IP address of a specific gateway
Disable Gateway (Optional)	Check this option to disable the gateway IP address.

Name	Description or Action
Enable DHCP (Optional)	Check this option to enable DHCP.
Allocation Pools (Optional)	Specify the IP address pools that can be allocated.
DNS Name Servers (Optional)	Specify the name of the DNS servers to be allocated.
Host Routes (Optional)	Specify the IP address of host routes.

5. Click **Create**.

Atlas shows the subnet in the **Subnets** section of the selected networks.

Note: IPv6 is not supported.

3.3 Create Port

To create a port, perform the following steps:

1. Log on to the Atlas dashboard, select the appropriate project with admin view, and click the **Networks** category.
2. Select a network for the port to be created.
3. Click **Create Port**.
4. In the **Create Port** window, specify the following fields:

Name	Description or Action
Name (Optional)	A name to identify the port



Name	Description or Action
Admin State ⁽¹⁾ (Optional)	Uncheck this option to set Admin State to Down , instead of Up . Set to Up by default.
Trunk Port	This check box denotes whether the port would be a trunk port or not. By default, the port is not a trunk port. To create a trunk port, the check box must be checked.
Device ID (Optional)	The ID of the device to be attached
Device Owner (Optional)	Device owner attached to the port
Subnet (Optional)	Select a subnet. Only required if Fixed IP is specified.
Fixed IP (Optional)	Specify the fixed IP address that will be assigned to the created port.
Binding Host ID (Optional)	The ID of the host where the port is allocated.

(1) Administrative state down is not supported for trunk ports and their subports. Refer to the relevant OpenStack Networking API in CEE document.

5. Click **Create Port**.

3.4 Create Subport

To create a subport, perform the following steps:

1. Log on to the Atlas dashboard, select the appropriate project with admin view, and click the **Networks** category.
2. Select the network, which has the trunk port, to which the subport is to be associated.
3. Open the drop-down list of the row containing the trunk port, in column **Actions**.
4. Select **Create Subport**.
5. In the **Create Subport** window, specify the following fields:

Name	Description or Action
Network ID	The network to which the subport has to be associated



Name	Description or Action
Subport Name (Optional)	A name to identify the subport
VLAN ID	The VLAN ID that the server VM uses to tag the traffic
Trunk Port Name	The name of the parent trunk port

6. Click **Create Subport**.

Atlas shows the created subport in the network to which it is associated.

3.5 Delete Port

This section describes how to delete a port.

Note: For deleting a trunk port or a subport, the same steps need to be followed. If deleting a trunk port, associated subports must be deleted first, refer to the OpenStack Networking API in CEE:

- *OpenStack Networking API in CEE in BSP Deployment*
- *OpenStack Networking API in CEE in HP and Dell Multi-Server Deployment*
- *OpenStack Networking API in CEE in Single Server Deployment*

Perform the following steps:

1. Log on to the Atlas dashboard, select the appropriate project with admin view, and click the **Networks** category.
2. Select the network which has the port to be deleted.
3. Click the check box for the port to be deleted.
4. Click **Delete Ports**.



4 Compute Environment

This section describes how to view, filter and sort the physical hosts in the cloud environment, and how to check what instances are running on a selected host. The `Compute Environment` screen extends the functionality of the standard `Horizon Hypervisors` screen.

An overview of the `Compute Environment` screen is shown in Figure 4.



Figure 4 Overview of the Compute Environment Screen

4.1 View Available Hosts

To view all available hosts, perform the following steps:

1. Log on to the Atlas dashboard, select the appropriate project with admin view, and click the **Compute Environment** category.

The available hosts are shown on the left side of the screen, and the **Hypervisor Summary** is shown to the right.

4.2 View Host Details

To view detailed information about a host, including the contained instances, perform the following steps:

1. Log on to the Atlas dashboard, select the appropriate project with admin view, and click the **Compute Environment** category.
2. Click on a host in the list to get detailed information.



The following information is displayed:

- Type, VCPU, RAM, and Storage usage
- The list of Availability Zones and Host Aggregates to which the host belongs
- The list of instances contained by the host

4.3 Filter and Sort Available Hosts

To filter and sort the available hosts, perform the following steps:

1. Log on to the Atlas dashboard, select the appropriate project with admin view, and click the **Compute Environment** category.
2. Click **Show filters** to expand the available filtering options.

For example, the following filters are available:

- Grouping hosts by Availability Zone or Host Aggregate
- Listing the following set of hosts:
 - Hosts without instances
 - Hosts with instances
 - Hosts with exceptions, that is, usage of VCPU, RAM, or Storage have exceeded the given limit.
- Showing the results of fuzzy searching on host name



5 Alarm Monitoring

This section describes how to display active alarms, details about the active alarms, alarm and alert history, and how to reach the operating instructions used for clearing alarms. Additionally, the section contains information about alarm notifications.

5.1 View Active Alarms

The Active Alarms screen is shown in Figure 5.

S.No	Specific Problem	Severity	Created	Event Type	Probable Cause	Source
9	Core Dump Generated	MINOR	2016-11-04 17:55	other (1)	m3100Indeterminate	Region=dc147,CeeFunction=1,Node=cic-2,CoreDump=/var/log/crash/cores/cic-2.domain.bd.1476281813.rs.send_to_aggr.8778.gz
10	Core Dump Generated	MINOR	2016-11-04 17:55	other (1)	m3100Indeterminate	Region=dc147,CeeFunction=1,Node=cic-1,CoreDump=/var/log/crash/cores/cic-1.domain.bd.1476281173.rs.main
229	Expiring Certificate	MINOR	2016-11-06 23:00	OTHER	m3100Indeterminate	Region=dc147,CeeFunction=1,CtrlDomain=1,Certificate=atlas.crt_1
228	Expiring Certificate	CRITICAL	2016-11-06 23:00	OTHER	m3100Indeterminate	Region=dc147,CeeFunction=1,CtrlDomain=1,Certificate=ca-bundle.crt_1
227	Expiring Certificate	CRITICAL	2016-11-06 23:00	OTHER	m3100Indeterminate	Region=dc147,CeeFunction=1,CtrlDomain=1,Certificate=ctrl.crt_1
230	Expiring Certificate	MINOR	2016-11-06 23:01	OTHER	m3100Indeterminate	Region=dc147,CeeFunction=1,CtrlDomain=1,Certificate=atlas-ca.crt_1
236	Expiring Certificate	CRITICAL	2016-11-07 00:00	OTHER	m3100Indeterminate	Region=dc147,CeeFunction=1,CtrlDomain=1,Certificate=ctrl-ca.crt_1

Figure 5 Active Alarms Screen

To list the active alarms, perform the following steps:

1. Log on to the Atlas dashboard, select the appropriate project with admin view, and click the **Active Alarms** category.

A list of active alarms are displayed.

2. To filter the alarms on severity, click one of the following buttons: **Critical**, **Major**, **Minor**, or **Warning**.

5.2 View Alarm Details

Figure 6 shows the details of an alarm at the Overview tab of the Alarm Details screen.

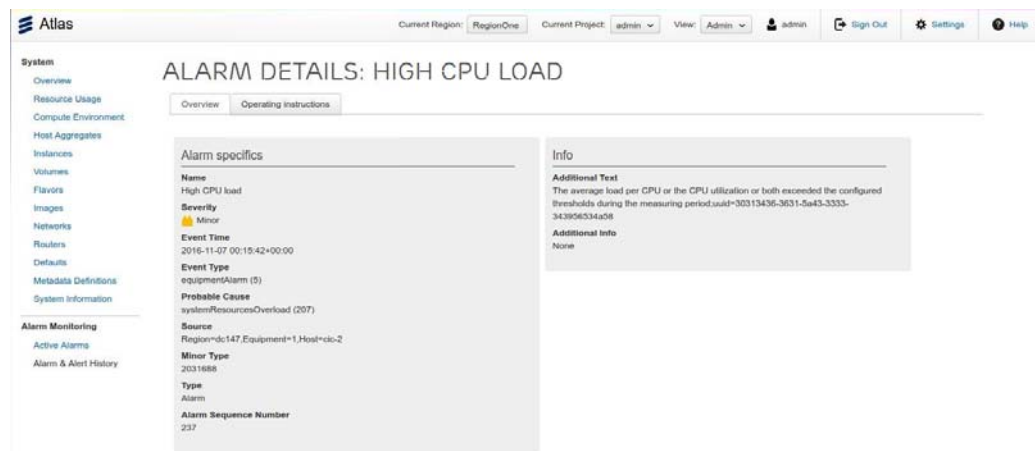


Figure 6 Alarm Details - Overview

To view the alarm details, perform the following steps:

1. Log on to the Atlas dashboard, select the appropriate project with admin view, and click the **Active Alarms** category.

A list of active alarms are displayed.

2. Select an active alarm by clicking on it.
3. Click the **Overview** tab for detailed information about the alarm.

5.3

View Alarm Operating Instructions

Figure 7 shows the operating instructions for an alarm at the Operating Instructions tab of the Alarm Details screen.

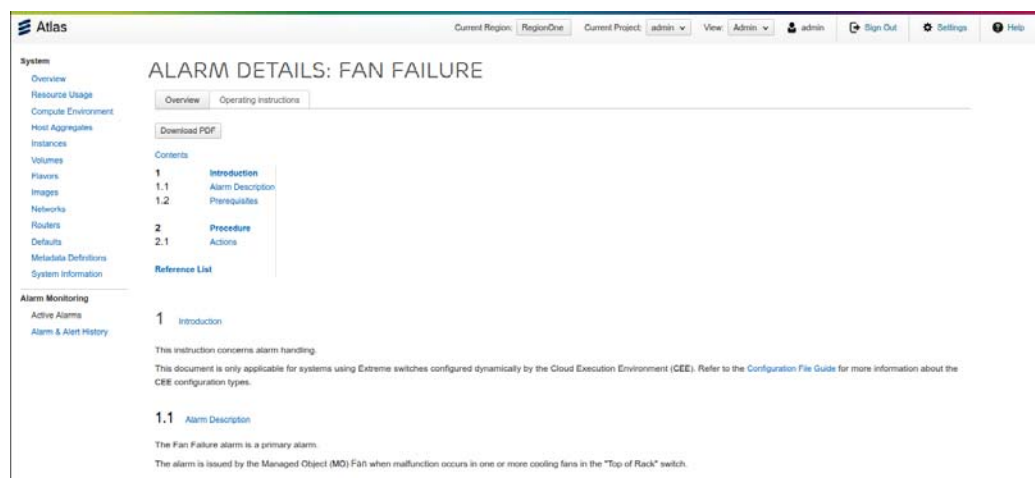


Figure 7 Alarm Details - Operating Instructions

To display the operating instructions for an alarm, perform the following steps:



1. Log on to the Atlas dashboard, select the appropriate project with admin view, and click the **Active Alarms** category.

A list of active alarms are displayed.

2. Select an active alarm by clicking on it.
3. Click the **Operating Instructions** tab to display the alarm operating instructions.

5.4

View Alarm and Alert History

The Alarm & Alert History screen is shown in Figure 8.

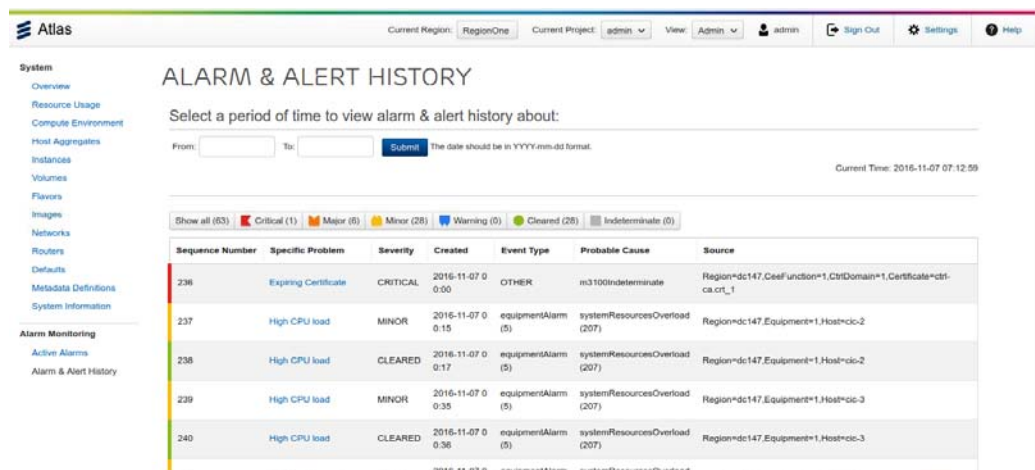


Figure 8 Alarm and Alert History

To display the alarm and alert history of a time period, perform the following steps:

1. Log on to the Atlas dashboard, select the appropriate project with admin view, and click the **Alarm & Alert History** category.
2. Specify the time period by filling in the **From** and **To** fields. Use the following date format: **yyyy-mm-dd**.
3. Click **Submit** to view the list of alarms and alerts of the selected time period.