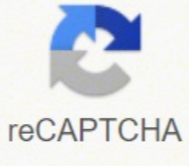
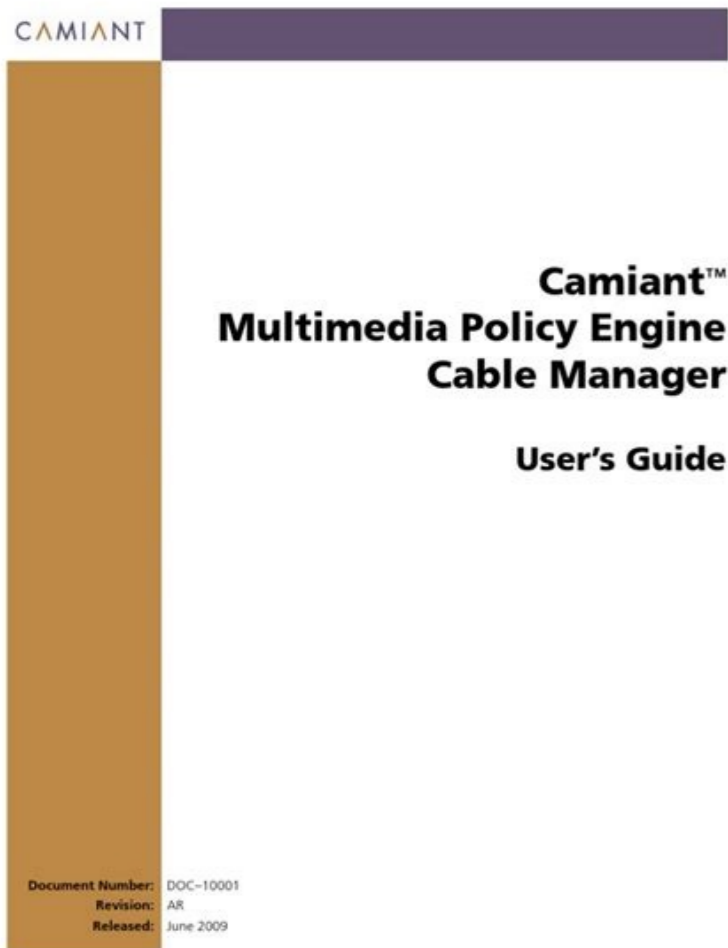




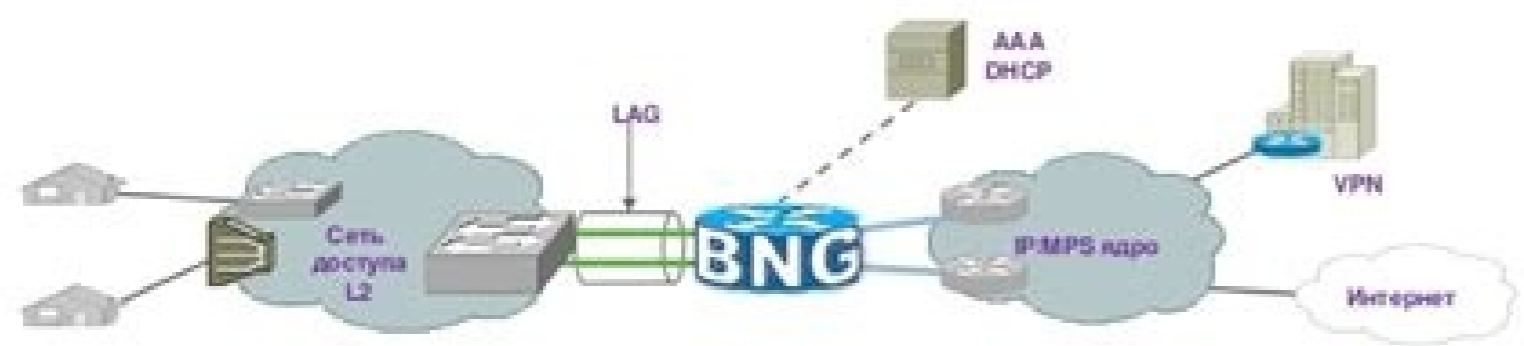
I'm not robot



**Open**



Резервирование внутри устройства BNG



- Link Aggregation (Bundle-Ethernet)
Выход из строя активного интерфейса – прозрачное переключение текущей сессии на оставшиеся интерфейсы.

Table with 4 columns: Message, Reference, and other details. It lists various system messages and their corresponding references.

Cisco perfcall flow. Cisco perfc configuration guide. Cisco perfc pdf. Cisco perfc architecture. Cisco cps perfc.

```
[stack@director ~]# source stackcrnova show | grep hypervisor|stack@director ~]# nova show pod1-compute-10 | grep hypervisor| OS-EXT-SRV-ATTR:hypervisor_hostname | 4ab21917-32fa-43a6-9260-02538b5c7a5a|stack@director ~]# ironic node-delete 4ab21917-32fa-43a6-9260-02538b5c7a5a
list (node delete must not be listed now) Install the New Compute Node The steps in order to install a new UCS C240 M4 server and the initial setup steps can be referred from: Cisco UCS C240 M4 Server Installation and Service Guide Step 1. [stack@director ~]# source [stack@director ~]# nova list|stack@director ~]# glance image-list|stack@director ~]# cinder list|stack@director ~]# neutron net-list Step 12. Modify the Export Template File to Add the VMs. In this step, you modify the export template file to re-add the VM group or groups associated with the VMs that are being recovered. Run the Modified Export Template File. Steps for BIOS upgrade are given here: Cisco UCS C-Series Rack-Mount Server BIOS Upgrade Guide Step 4. Step 5. All controller nodes are Started under haproxy-clone. Step 4. Usually, it would be of the format -SERVICE: [stack@director ~]# nova aggregate-list+-----+| Id | Name | Availability Zone |-----+| 29 | POD1-AUTOIT | mgmt | 57 | VNF1-SERVICE1 | | 60 | VNF1-EM-MGMT1 | | 63 | VNF1-CF-MGMT1 | | 66 | VNF2-CF-MGMT2 | | 69 | VNF2-EM-MGMT2 | | 72 | VNF2-SERVICE2 | | 75 | VNF3-CF-MGMT3 | | 78 | VNF3-EM-MGMT3 | | 81 | VNF3-SERVICE3 | |-----+-----+ In this case, the compute server to be replaced belongs to VNF2. For every file titled sessionmgr-xxxxx, run service sessionmgr-xxxxx stop; [root@XXXSM03 init.d]# service sessionmgr-27717 stop Remove the Compute Node from Nova Aggregate List Step 1. Example: cm Now Change the to and save the changes. Check file ultram_health_os.report. The only services should show as XXX status are neutron-sriov-nic-agent.service. Within that deployment, you need to tag one or more of the vm_groups for deletion. Within that cluster are multiple vm_groups. There are one or more vm_groups for each VM type (PD, PS, SM, OM). Ensure that the index number for the new compute server is not used before. The export template file is for a specific cluster. [stack@director ~]# for i in $(nova list| grep controller | awk '{print $12}' | sed 's/ctplane=//g'); do (ssh -o StrictHostKeyChecking=no heat-admin@$i "hostname:sudo rabbitmqctl eval 'rabbit_diagnostics:maybe_stuck()'") & done Step 5. Every service status should be "up"; [stack@director ~]# nova service-list|Every service status should be "up"; [stack@director ~]# neutron agent-list|Every service status should be "up"; [stack@director ~]# cinder service-list|Backup In case of recovery, Cisco recommends to take a backup of the OSPD database with the use of these steps: [root@director ~]# mysqldump -opt --all-databases > /root/undercloud-all-databases.sql|root@director ~]# tar -xat -czf undercloud-backup date +%F tar.gz /root/undercloud-all-databases.sql /etc/my.cnf.d/server.cnf /var/lib/glance/images /srv/node /home/stacktar: Removing leading / from member names This process ensures that a node can be replaced without affecting the availability of any instances. Also, it is recommended to backup the CPS configuration. Check the diagnostics.sh from cluster manager VM & if any error found for the VMs which are recovered then Step 1. Note: Ultra M 5.1.x release is considered in order to define the procedures in this document. From the ESC run: /opt/cisco/esc/esc-confd/esc-cl/esc_nc cli edit-config /opt/cisco/esc/cisco-cps/config/gr/mo/gen/ From the ESC Portal, you should be able to see one or more VMs that move to the undeploy state and then disappeared completely. admin@VNF2-esc-esc-0 ~]# tail -f /var/log/esc/yangesc.log...14:59:50.112 07-Nov-2017 WARN Type: VM_RECOVERY_COMPLETE14:59:50.112 07-Nov-2017 WARN Status: SUCCESS14:59:50.112 07-Nov-2017 WARN Status Code: 20014:59:50.112 07-Nov-2017 WARN Status Msg: Recovery: Successfully recovered VM [VNF2-DEPLOYM_s9_0_8bc6cc60-15d6-4ead-8b6a-10e75d0e134d]. Healthcheck Before you replace a Compute node, it is important to check the current health state of your Red Hat OpenStack Platform environment. For all Controllers verify PCS status. Remove the compute node from the aggregate identified (remove by hostname noted from Section Identify the VMs hosted in the Compute Node@ nova aggregate-remove-host [stack@director ~]# nova aggregate-remove-host VNF2-SERVICE2 pod1-compute-10.localdomain Step 3. /opt/cisco/esc/cisco-cps/config/gr/mo/gen Step 5. Modify the Export Template File. Step 4. Step 3. Introduction This document describes the steps required to replace a faulty compute server in an Ultra-M setup that hosts Cisco Policy Suite (CPS) Virtual Network Functions (VNFs). Disable the PCRF Services Residing on the VM to be Shutdown Step 1. Execution ID: c4a90d7b-ebf2-4fcb-96bf-e3168aa9dc95Successfully set all nodes to available.[stack@director ~]# ironic node-list |grep available| 7eddfa87-6ae6-4308-b1d2-78c98689a56e | None | None | power off | available | False | Step 4. Step 7. Look for any error: Neutron.[stack@director ~]# sudo tail -n 20 /var/log/neutron/{dhcp-agent,l3-agent,metadata-agent,openvswitch-agent,server}.logCinder:[stack@director ~]# sudo tail -n 20 /var/log/cinder/{api,scheduler,volume}.logGlance:[stack@director ~]# sudo tail -n 20 /var/log/glance/{api,registry}.log Step 11. Verify OpenStack component logs. Verify health of system from ultram-health report which is generated every fifteen minutes. It is recommended you check the current state in order to avoid complications when the Compute replacement process is on. delete_node.sh openstack overcloud node delete -templates -e /usr/share/openstack-tripleo-heat-templates/environments/puppet-pacemaker.yaml -e /usr/share/openstack-tripleo-heat-templates/environments/network-isolation.yaml -e /usr/share/openstack-tripleo-heat-templates/environments/storage-environment.yaml -e /usr/share/openstack-tripleo-heat-templates/environments/neutron-sriov.yaml -e /home/stack/custom-templates/network.yaml -e /home/stack/custom-templates/ceph.yaml -e /home/stack/custom-templates/compute.yaml -e /home/stack/custom-templates/layout.yaml -e /home/stack/custom-templates/layout.yaml --stack [stack@director ~]# source stackcr[stack@director ~]# /bin/sh delete_node.sh+ openstack overcloud node delete -templates -e /usr/share/openstack-tripleo-heat-templates/environments/puppet-pacemaker.yaml -e /usr/share/openstack-tripleo-heat-templates/environments/network-isolation.yaml -e /usr/share/openstack-tripleo-heat-templates/environments/storage-environment.yaml -e /usr/share/openstack-tripleo-heat-templates/environments/neutron-sriov.yaml -e /home/stack/custom-templates/network.yaml -e /home/stack/custom-templates/ceph.yaml -e /home/stack/custom-templates/compute.yaml -e /home/stack/custom-templates/layout.yaml -e /home/stack/custom-templates/layout.yaml --stack pod1 49ac5f22-469e-4b84-badc-031083db0533Deleting the following nodes from stack pod1: 49ac5f22-469e-4b84-badc-031083db0533Started Mistral Workflow. Wait for the OpenStack stack operation to move to the COMPLETE state. Check the Cisco Policy and Charging Rules Function (PCRF) Services that Resides on VM Note: If VM is in shutoff state then Power it On using esc_nc cli from ESC. Login to the respective VM. Step 7. [stack@XX-ospd ~]# ssh root@ [root@XXXSM03 ~]# monsum[root@XXXSM03 ~]# monit start all If the VM is an SM, OAM or arbiter, in addition, start the sessionmgr services which stopped earlier: For every file titled sessionmgr-xxxxx run service sessionmgr-xxxxx start; [root@XXXSM03 init.d]# service sessionmgr-27717 start If still the diagnostic is not clear, perform build all.sh from Cluster Manager VM and then perform VM-init on the respective VM. Within each cluster is a vm_group. From OSPD perform these verifications for API. As shown in the image, select a location and save the file for later use. In order to enable IPMI over LAN, navigate to Admin > Communication Services > Communication Services, as shown in the image. Check whether the PCRF services are down and start them. Monitor the yangesc.log. From OSPD. In order to verify the status of Physical drives, navigate to Storage > Cisco 12G SAS Modular Raid Controller (SLOT-HBA) > Physical Drive Info. After the installation of the server, insert the hard disks in the respective slots as the old server. Step 2. 1 controller node is Active and 2 Standby under redis. Select the VD and configure Set as Boot Drive, as shown in the image. In order to disable hyperthreading, as shown in the image, navigate to Compute > BIOS > Configure BIOS > Advanced > Processor Configuration. Step 8. In order to back up CPS VMs, from Cluster Manager VM: [root@CM ~]# config_br.py -a export --all /mnt/backup/CPS_backup $(date +%Y-%m-%d).tar.gz[root@CM ~]# config_br.py -a export --mongo-all --svn --etc --grafanadb --auth-httppasswd --haproxy /mnt/backup/$(hostname) backup all $(date +%Y-%m-%d).tar.gz Identify the VMs Hosted in the Compute Node Identify the VMs that are hosted on the compute server: [stack@director ~]# nova list --field name,host,networks | grep compute-10| 49ac5f22-469e-4b84-badc-031083db0533 | VNF2-DEPLOYM_s9_0_8bc6cc60-15d6-4ead-8b6a-10e75d0e134d | pod1-compute-10.localdomain | Replication=10.160.137.161; Internal=192.168.1.131; Management=10.225.247.229; tb1-orch=172.16.180.129 Note: In the output shown here, the first column corresponds to the Universally Unique Identifier (UUID), the second column is the VM name and the third column is the VM name and the third column is the VM name present. Example: cm Change the to just. The export template file is broken down into the two deployments (cluster1 / cluster2). Note: The image shown here and the configuration steps mentioned in this section are with reference to the firmware version 3.0(3e) and there might be slight variations if you work on other versions Add the New Compute Node to the Overcloud The steps mentioned in this section are common irrespective of the VM hosted by the compute node. /var/ops/install/current/scripts/build_all.sh ssh VM e.g. ssh prcfcli01 /etc/init.d/vm-init Delete and Re-Deploy One or More VMs in Case ESC Recovery Fails If the ESC recovery command (above) does not work (VM_RECOVERY_FAILED) then delete and read the individual VMs. Obtain the Latest ESC Template for the Site From ESC Portal: Step 1. [admin@VNF2-esc-esc-0 ~]# sudo /opt/cisco/esc/esc-confd/esc-cl/esc_nc cli recovery-vn-action DO VNF2-DEPLOYM_s9_0_8bc6cc60-15d6-4ead-8b6a-10e75d0e134d[sudo] password for admin: Recovery VM Action/opt/cisco/esc/confd/bin/netconf-console --port=830 --host=127.0.0.1 --user=admin --privKeyFile=/root/.ssh/confd_id_dsa --privKeyType=dsa --rpc=/tmp/esc_nc_cli.ZpRCGieUW Step 3. Now, the Host must not be listed under the aggregate: nova aggregate-show [stack@director ~]# nova aggregate-show VNF2-SERVICE2 Compute Node Deletion The steps mentioned in this section are common irrespective of the VMs hosted in the compute node. There are one or more vm_groups for each VM type (PD, PS, SM, OM). [stack@director ~]# openstack stack list+-----+| ID | Stack Name | Stack Status | Creation Time | Updated Time |-----+-----+ Step 7. [stack@director ~]# for i in $(nova list| grep controller | awk '{print $12}' | sed 's/ctplane=//g'); do (ssh -o StrictHostKeyChecking=no heat-admin@$i "hostname:sudo ceph -s") & done Step 10. [stack@director ~]# source stackcr[stack@director ~]# nova list |grep compute-18| 02d88cd-42b9-4f28-b2ca-13e305ad49ea | pod1-compute-18 | ACTIVE | | Running | ctplane=192.200.0.117 |[stack@director ~]# source corerc[stack@director ~]# openstack hypervisor list |grep compute-18| 63 | pod1-compute-18.localdomain | Restore the VMs Addition to Nova Aggregate List Add the compute node to the aggregate-host and verify if the host is added. nova aggregate-add-host [stack@director ~]# nova aggregate-add-host VNF2-SERVICE2 pod1-compute-18.localdomainnova aggregate-show [stack@director ~]# nova aggregate-show VNF2-SERVICE2 VM Recovery from Elastic Services Controller (ESC) Step 1. All controller nodes are Started under Rabbitmq. [stack@director ~]# openstack baremetal node manage 7eddfa87-6ae6-4308-b1d2-78c98689a56e[stack@director ~]# ironic node-list |grep 7eddfa87| 7eddfa87-6ae6-4308-b1d2-78c98689a56e | None | None | power off | manageable | False | [stack@director ~]# openstack overcloud node introspect 7eddfa87-6ae6-4308-b1d2-78c98689a56e --provideStarted Mistral Workflow. Step 1. Delete from Overcloud Step 1. Place your cursor over the blue Action button, a pop-up window opens, now click on Export Template, as shown in the image. Background Information This document is intended for the Cisco personnel familiar with Cisco Ultra-M platform and it details the steps required to be carried out at OpenStack and CPS VNF level at the time of the Compute Server Replacement. It must be Unconfigured Good The storage shown here can be SSD drive. Import the json file. After the installation of the new host, save the changes. Progress can be tracked in the ESC's /var/log/esc/yangesc.log Example: 09:14:00.906 29-Jan-2018 INFO ===== UPDATE SERVICE REQUESTRECEIVED (UNDER TENANT) ===== 09:14:00.906 29-Jan-2018 INFO Tenant name: Pcrf 09:14:00.906 29-Jan-2018 INFO Deployment name: WSP1-tmo 09:14:01.542 29-Jan-2018 INFO 09:14:01.542 29-Jan-2018 INFO ===== CONFID TRANSACTION ACCEPTED ===== 09:16:33.947 29-Jan-2018 INFO 09:16:33.947 29-Jan-2018 INFO ===== SEND NOTIFICATION STARTS ===== 09:16:33.947 29-Jan-2018 INFO Type: VM DEPLOYED 09:16:33.947 29-Jan-2018 INFO Status: SUCCESS 09:16:33.947 29-Jan-2018 INFO Status Code: 200 ||| 09:19:00.148 29-Jan-2018 INFO Type: VM ALIVE 09:19:00.148 29-Jan-2018 INFO Status: SUCCESS 09:19:00.148 29-Jan-2018 INFO Status Code: 200 ||| 09:19:00.275 29-Jan-2018 INFO Type: SERVICE_UPDATED 09:19:00.275 29-Jan-2018 INFO Status: SUCCESS 09:19:00.275 29-Jan-2018 INFO Status Code: 200 Step 5. ComputePs: internal_api: -11.120.0.43 -11.120.0.44 -11.120.0.45 -11.120.0.43
```

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