

# Contrail Networking Release 1912.L2

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RELEASE

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# Introduction

Juniper Networks Contrail Networking is an open, standards-based software solution that delivers network virtualization and service automation for federated cloud networks. It provides self-service provisioning, improves network troubleshooting and diagnostics, and enables service chaining for dynamic application environments across enterprise virtual private cloud (VPC), managed Infrastructure as a Service (IaaS), and Networks Functions Virtualization (NFV) use cases.

These release notes accompany Release 1912.L2 of Contrail Networking. They describe new features, limitations, and known problems.

These release notes are displayed on the Contrail Networking Documentation Web page at [https://www.juniper.net/documentation/en\\_US/contrail19/information-products/topic-collections/release-notes/index.html](https://www.juniper.net/documentation/en_US/contrail19/information-products/topic-collections/release-notes/index.html).

## New and Changed Features

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The features listed in this section are new or changed as of Contrail Networking Release 1912. A brief description of each new feature is included.

### New and Changed Features in Contrail Networking Release 1912.L2

There are no new features in Contrail Networking Release 1912.L2.

## New and Changed Features in Contrail Networking Release 1912.L1

There are no new features in Contrail Networking Release 1912.L1.

## New and Changed Features in Contrail Networking Release 1912

The features listed in this section are new as of Contrail Networking Release 1912.

### Extending Service Chaining Functionality to Bare Metal Servers

Contrail Networking Release 1912 extends the service chaining functionality to bare metal servers (BMS). In earlier releases, Contrail Networking supports traffic flow between a virtual machine in one virtual network and a virtual machine in another virtual network. However, traffic flow between a virtual machine and BMS through a service chain was not supported. With Release 1912, Contrail Networking supports the movement of inter-LR traffic by using virtual network functions (VNF). This EVPN-based VXLAN (Ethernet VPN-based Virtual Extensible LAN) service chain supports bidirectional traffic flow through a service virtual machine.

VNF service chaining uses EVPN with VXLAN to enable traffic flow between two bare metal servers, a bare metal server and a virtual machine, and a virtual machine and a bare metal server.

For more information, see [Creating VNF Service Chains for Inter-LR Traffic](#)

### Monitoring Fabric Jobs

In Contrail Networking Release 1912, you can view detailed information, status, and logs of all active, failed, and completed fabric jobs for the past 24 hours in Contrail Command. Navigate to the **Monitoring > Jobs** page or click the bell icon on the menu bar on the top of any page to view fabric jobs history and status. You can also abort ongoing jobs from the job status monitoring page.

For more information, see [Monitoring Fabric Jobs](#).

## Supported Platforms in Contrail Networking Release 1912

[Table 1 on page 3](#) lists the orchestrator releases and the corresponding operating systems and kernel versions supported by Contrail Networking Release 1912.

**Table 1: Supported Platforms**

Contrail Networking Release	Orchestrator Release	Deployment Tool	Operating System, Kernel, and Key Components Version
Contrail Networking Release 1912.L4	Kubernetes 1.12.9	Ansible	<ul style="list-style-type: none"> <li>CentOS 7.9—Linux Kernel Version 3.10.0-1127</li> </ul> <p>Ansible version: 2.5.2</p> <p>Docker version: 18.03.1-ce</p>
	Openshift 3.11	Ansible	<ul style="list-style-type: none"> <li>RHEL 7.9—Linux Kernel Version 3.10.0-1160</li> </ul>
	Openstack Rocky	Ansible	<ul style="list-style-type: none"> <li>CentOS 7.9—Linux Kernel Version 3.10.0-1127</li> </ul> <p>Ansible version: 2.5.2</p> <p>Docker version: 18.03.1-ce</p>
	Openstack Queens	Ansible	<ul style="list-style-type: none"> <li>CentOS 7.9—Linux Kernel Version 3.10.0-1127</li> </ul> <p>Ansible version: 2.5.2</p> <p>Docker version: 18.03.1-ce</p>
		Juju Charms	<ul style="list-style-type: none"> <li>Ubuntu 18.04.5 - Linux Kernel Version 4.15.0-140-generic</li> <li>MaaS version: 2.4.2</li> </ul>

**Table 1: Supported Platforms (Continued)**

Contrail Networking Release	Orchestrator Release	Deployment Tool	Operating System, Kernel, and Key Components Version
	Red Hat Openstack Platform 13.0.10/13.0.11/13.0.12/13.0.14	RHOSP 13 director	<ul style="list-style-type: none"> <li>• RHEL 7.7—Linux Kernel Version 3.10.0-1062.9.1</li> <li>• RHEL 7.8—Linux Kernel Version 3.10.0-1127.18.2</li> <li>• RHEL 7.9—Linux Kernel Version 3.10.0-1160</li> </ul> <p>Redhat Content Sync Date: 2021-03-16</p> <p>Director version used: octavia-amphora-image-13.0-20201112.1.el7ost.noarch</p>
Contrail Networking Release 1912.L3	Kubernetes 1.12.9	Ansible	<ul style="list-style-type: none"> <li>• CentOS 7.8—Linux Kernel Version 3.10.0-1127</li> </ul>
	OpenShift 3.11	Ansible	<ul style="list-style-type: none"> <li>• RHEL 7.8—Linux Kernel Version 3.10.0-1127.18.2</li> </ul>
	OpenStack Rocky	Ansible	<ul style="list-style-type: none"> <li>• CentOS 7.8—Linux Kernel Version 3.10.0-1127</li> </ul> <p>Ansible version: 2.5.2</p> <p>Docker version: 18.03.1-ce</p>
	OpenStack Queens	Ansible	<ul style="list-style-type: none"> <li>• CentOS 7.8—Linux Kernel Version 3.10.0-1127</li> </ul> <p>Ansible version: 2.5.2</p> <p>Docker version: 18.03.1-ce</p>

**Table 1: Supported Platforms (Continued)**

Contrail Networking Release	Orchestrator Release	Deployment Tool	Operating System, Kernel, and Key Components Version
		Juju Charms	<ul style="list-style-type: none"> <li>• Ubuntu 18.04.2—Linux Kernel Version 4.15.0-118-generic</li> </ul> <p>MaaS Version: 2.6.2</p>
	Red Hat OpenStack Platform 13.0.10/13.0.11/13.0.12	RHOSP 13 director	<ul style="list-style-type: none"> <li>• RHEL7.7—Linux Kernel Version 3.10.0-1062.9.1</li> <li>• RHEL7.8—Linux Kernel Version 3.10.0-1127</li> <li>• RHEL7.8—Linux Kernel Version 3.10.0-1127.18.2</li> </ul> <p>Red Hat Content Sync Date: 2020-08-12</p>
	VMware vCenter 6.7	Ansible	<ul style="list-style-type: none"> <li>• ESX version 6.5</li> </ul> <p>CentOS VM version running vRouter: CentOS 7.7—Linux Kernel Version 3.10.0-1062.1.1</p>
Contrail Networking Release 1912.L2	Kubernetes 1.12.9	Ansible	<ul style="list-style-type: none"> <li>• CentOS 7.7—Linux Kernel Version 3.10.0-1062.1.1</li> </ul>
	OpenShift 3.11	Ansible	<ul style="list-style-type: none"> <li>• RHEL 7.8—Linux Kernel Version 3.10.0-1127</li> </ul>
	OpenStack Rocky	Ansible	<ul style="list-style-type: none"> <li>• CentOS 7.7—Linux Kernel Version 3.10.0-1062.1.1</li> </ul> <p>Ansible version: 2.5.2</p> <p>Docker version: 18.03.1-ce</p>

**Table 1: Supported Platforms (Continued)**

Contrail Networking Release	Orchestrator Release	Deployment Tool	Operating System, Kernel, and Key Components Version
	OpenStack Queens	Ansible	<ul style="list-style-type: none"> <li>CentOS 7.7—Linux Kernel Version 3.10.0-1062.1.1</li> </ul> Ansible version: 2.5.2 Docker version: 18.03.1-ce
		Juju Charms	<ul style="list-style-type: none"> <li>Ubuntu 18.04.2—Linux Kernel Version 4.15.0-104-generic</li> </ul> MaaS Version: 2.6.2
	Red Hat OpenStack Platform 13.0.9/13.0.10/13.0.11	RHOSP 13 director	<ul style="list-style-type: none"> <li>RHEL7.7—Linux Kernel Version 3.10.0-1062.9.1</li> <li>RHEL7.8—Linux Kernel Version 3.10.0-1127</li> </ul> Red Hat Content Sync Date: 2020-04-06
	VMware vCenter 6.7	Ansible	<ul style="list-style-type: none"> <li>ESX version 6.5</li> </ul> CentOS VM version running vRouter: CentOS 7.7—Linux Kernel Version 3.10.0-1062.1.1
Contrail Networking Release 1912.L1	Kubernetes 1.12.9	Ansible	<ul style="list-style-type: none"> <li>CentOS 7.7—Linux Kernel Version 3.10.0-1062.1.1</li> </ul>
	OpenShift 3.11	Ansible	<ul style="list-style-type: none"> <li>RHEL 7.7—Linux Kernel Version 3.10.0-1062.12.1</li> </ul>



**Table 1: Supported Platforms (Continued)**

Contrail Networking Release	Orchestrator Release	Deployment Tool	Operating System, Kernel, and Key Components Version
	OpenStack Rocky	Ansible	<ul style="list-style-type: none"> <li>CentOS 7.7—Linux Kernel Version 3.10.0-1062.1.1</li> </ul> <p>Ansible version: 2.5.2</p> <p>Docker version: 18.03.1-ce</p>
	OpenStack Queens	Ansible	<ul style="list-style-type: none"> <li>CentOS 7.7—Linux Kernel Version 3.10.0-1062.1.1</li> </ul> <p>Ansible version: 2.5.2</p> <p>Docker version: 18.03.1-ce</p>
		Juju Charms	<ul style="list-style-type: none"> <li>Ubuntu 18.04.2—Linux Kernel Version 4.15.0-48-generic</li> </ul> <p>MaaS Version: 2.6.2</p>
	Red Hat OpenStack Platform 13.0.9/13.0.10	RHOSP 13 director	<ul style="list-style-type: none"> <li>RHEL7.7—Linux Kernel Version 3.10.0-1062.9.1 (Director Image: rhosp-director-images-all-13.0-20191206.1.el7ost.noarch)</li> <li>RHEL7.7—Linux Kernel Version 3.10.0-1062.12.1 (Director Image: rhosp-director-images-all-13.0-20200303.1.el7ost.noarch)</li> </ul> <p>Red Hat Content Sync Date: 2020-02-25</p>
	VMware vCenter 6.7	Ansible	<ul style="list-style-type: none"> <li>ESX version 6.5</li> </ul> <p>CentOS VM version running vRouter: CentOS 7.7—Linux Kernel Version 3.10.0-1062.1.1</p>

**Table 1: Supported Platforms *(Continued)***

Contrail Networking Release	Orchestrator Release	Deployment Tool	Operating System, Kernel, and Key Components Version
Contrail Networking Release 1912	Kubernetes 1.12.9	Ansible	<ul style="list-style-type: none"> <li>CentOS 7.7—Linux Kernel Version 3.10.0-1062.1.1</li> </ul> Docker version: 18.03.1-ce
	OpenShift 3.11	Ansible	<ul style="list-style-type: none"> <li>RHEL 7.7—Linux Kernel Version 3.10.0-1062.9.1</li> </ul>
	OpenStack Rocky	Ansible	<ul style="list-style-type: none"> <li>CentOS 7.7—Linux Kernel Version 3.10.0-1062.1.1</li> </ul> Ansible version: 2.5.2 Docker version: 18.03.1-ce
	OpenStack Queens	Ansible	<ul style="list-style-type: none"> <li>CentOS 7.7—Linux Kernel Version 3.10.0-1062.1.1</li> </ul> Ansible version: 2.5.2 Docker version: 18.03.1-ce
		Juju Charms	<ul style="list-style-type: none"> <li>Ubuntu 18.04.2—Linux Kernel Version 4.15.0-48-generic</li> </ul> MaaS Version: 2.4.2
		Helm	<ul style="list-style-type: none"> <li>Ubuntu 16.04.3—Linux Kernel Version 4.4.0-165-generic</li> </ul> Docker version: 17.03.2-ce Helm version: 2.7.2 Kubernetes version: 1.9.3

**Table 1: Supported Platforms (Continued)**

Contrail Networking Release	Orchestrator Release	Deployment Tool	Operating System, Kernel, and Key Components Version
	Red Hat OpenStack Platform 13.0.9	RHOSP 13 director	<ul style="list-style-type: none"> <li>RHEL7.7—Linux Kernel Version 3.10.0-1062.9.1</li> </ul>
	VMware vCenter 6.7	Ansible	<ul style="list-style-type: none"> <li>ESX version 6.5</li> </ul> <p>CentOS VM version running vRouter: CentOS 7.7—Linux Kernel Version 3.10.0-1062.1.1</p>

Table 2 on page 9 lists the AppFormix release to use with Contrail Networking Release 1912.

**Table 2: AppFormix Release**

Contrail Networking Release	AppFormix Release	Operating System
Contrail Networking Release 1912.L4	3.1.11 - AppFormix 1.0.6 - AppFormix Flows	CentOS 7.7
Contrail Networking Release 1912.L3	3.1.11 - AppFormix 1.0.6 - AppFormix Flows	CentOS 7.7
Contrail Networking Release 1912.L2	3.1.11 - AppFormix 1.0.6 - AppFormix Flows	CentOS 7.7
Contrail Networking Release 1912.L1	3.1.11 - AppFormix 1.0.6 - AppFormix Flows	CentOS 7.7
Contrail Networking Release 1912	3.1.11 - AppFormix 1.0.6 - AppFormix Flows	CentOS 7.7

# Known Behavior

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This section lists known limitations with this release.

## Known Behavior in Contrail Release 1912.L2

- CEM-7424 In Contrail fabric deployments, in MX acting as DC-GW, FIP for VMs hosted on OpenStack computes and bare metal server workloads hosted on the datacenter fabric cannot be enabled at the same time.
- CEM-11163 In Fortville X710 NIC: With TX and RX buffers performance degrade is observed as mbufs gets exhausted.
- CEM-9979 During upgrade of DPDK computes deployed with OOO Heat Templates in RHOSP environment, vRouter coredumps are observed. This is due to the sequence in which the services are started during upgrade and does not have impact on cluster operation.
- CEM-8701 While bringing up a BMS using the Life Cycle Management workflow, sometimes on faster servers the re-image does not go through and instance not moved from ironic vn to tenant vn. This is because if the PXE boot request from the BMS is sent before the routes are converged between the BMS port and the TFTP service running in Contrail nodes. As a workaround, the servers can be rebooted or the BIOS in the servers can be configured to have a delayed boot.
- CEM-8149 BMS LCM with fabric set with `enterprise_style=True` is not supported. By default, `enterprise_style` is set to `False`. User should avoid using `enterprise_style=True` if the fabric object will onboard BMS LCM instance.
- CEM-5788 Installation fails if FQDN is used to deploy Contrail Cluster through Contrail Command with OpenStack orchestration.

- CEM-5141 For deleting compute nodes, the UI workflow will not work. Instead, update the instances.yaml with “ENABLE\_DESTROY: True” and “roles:” (leave it empty) and run the following playbooks.

```
ansible-playbook -i inventory/ -e orchestrator=openstack --tags nova playbooks/
install_openstack.yml
ansible-playbook -i inventory/ -e orchestrator=openstack playbooks/install_contrail.yml
```

For example:

```
global_configuration:
  ENABLE_DESTROY: True
  ...
  ...
instances:
  ...
  ...
  srvr5:
    provider: bms
    ip: 19x.xxx.x.55
    roles:
  ...
  ...
```

- CEM-5043 VNI update on a LR doesnt update the RouteTable. As a workaround, delete the LogicalRouter and create a new LogicalRouter with the new VNI.
- CEM-4370 After creating a PNF Service Instance, the fields like PNF eBGP ASN\*, RP IP Address, PNF Left BGP Peer ASN\*, Left Service VLAN\*, PNF Right BGP Peer ASN\*,Right Service VLAN\* cannot be modified. If there is a need to modify these values, delete and re-create the Service Instance with intended values.
- JCB-190956 While creating ironic-provision, service address in the subnet must be pointing to openstack ironic node ip/kolla internal vip.
- JCB-187320 On a DPDK compute vif list -rate core-dumps with traffic.
- JCB-187287 High Availability provisioning of Kubernetes master is not supported.
- JCB-186493 When a snapshot of an active VM fails, shutdown the VM before generating the snapshot.

- JCB-184776 When the vRouter receives the head fragment of an ICMPv6 packet, the head fragment is immediately enqueued to the assembler. The flow is created as hold flow and then trapped to the agent. If fragments corresponding to this head fragment are already in the assembler or if new fragments arrive immediately after the head fragment, the assembler releases them to flow module. Fragments get enqueued in the hold queue if agent does not write flow action by the time the assembler releases fragments to the flow module. A maximum of three fragments are enqueued in the hold queue at a time. The remaining fragments are dropped from the assembler to the flow module.

As a workaround, the head fragment is enqueued to assembler only after flow action is written by agent. If the flow is already present in non-hold state, it is immediately enqueued to assembler.

- JCB-177787 In DPDK vRouter use cases such as SNAT and LBaaS that require netns, jumbo MTU cannot be set. Maximum MTU allowed:  $\leq 1500$ .
- JCB-177541 When you receive an error message during Kolla provisioning, rerunning the code will not work. In order for the provisioning to work, restart provisioning from scratch.
- JCB-171466 Metadata SSL works only in HA deployment mode.
- JCB-163773 A false alarm for config service is generated when config and configdb services are installed on different nodes. Ignore the false alarm.

## Known Behavior in Contrail Release 1912.L1

- CEM-7424 In Contrail fabric deployments, in MX acting as DC-GW, FIP for VMs hosted on OpenStack computes and bare metal server workloads hosted on the datacenter fabric cannot be enabled at the same time.
- CEM-11479 vhost0 loses the IP address due to dhcpclient timeout. On one of the gateways, on the vhost0 interface the timeout for dhcp is set to 1582 seconds and it times out after that. The renewal of the lease fails as usual and vhost0 loses its IP.

As a workaround, perform the following steps only for Google Cloud GWs.

1. Log in to Google Cloud vrouter-gateway instances.
2. Check the DHCP lease on the vhost0 interface using the following command:

```
ip a | grep vhost0 -A3 | grep valid_lft
```

3. Check if the above command returns a forever value. For example:

```
[root@g3312v1g1 vrouter]# ip a | grep vhost0 -A3 | grep valid_lft
```

valid\_lft forever preferred\_lft forever

4. Ensure that the value for 'valid\_lft' is NOT short in the 1K range, for instance 1582 seconds or less.



**NOTE:** This number keeps decrementing by second (units in time).

5. Disable the ifup-vhost script by running the following command.

```
chmod 400 /etc/sysconfig/network-scripts/ifup-vhost
```

6. Reboot the instance by running the following command.

```
reboot
```

Once the instance is up, check the vhost0 lease by rerunning the command in step ["1" on page 12](#). The value of 'valid\_lft' must be in the 157 million range.

- CEM-11411 Packet loss is seen on overlay ping of packet size starting from 1430 bytes across all providers.
  - In order to support jumbo frames for underlay and overlay from onPrem to AWS, ensure the onPrem contrail cluster and the underlay IP fabric support jumbo frames.
  - For Google Cloud, ensure that you use the instance c2-standard-8 for contrail Multicloud GW and a minimum of c2-standard-4 for vrouterCNI+k8snode.
  - Please check the MTU in each of the cloud and adjust the MTU accordingly, in case of any issues.
- CEM-11338 Reconfiguring sFlow collectors after deleting and adding a fabric back fails. On a well planned cluster deployment with sufficient sFlow nodes provisioned in the beginning will prevent this situation.
- CEM-11163 In Fortville X710 NIC: With TX and RX buffers performance degrade is observed as mbufs gets exhausted.
- CEM-11160 WebUI returns stack trace when navigating to config\_sc\_svcInstances in a JuJu based installation.
- CEM-10199 In public cloud deployments, after deleting the public cloud, the snapshots are left in the cloud. To clear them, the user has to log in to the respective cloud console (AWS/Azure/GCP) and deregister the AMLs and delete the snapshots from there.
- CEM-9979 During upgrade of DPDK computes deployed with OOO Heat Templates in RHOSP environment, vRouter coredumps are observed. This is due to the sequence in which the services are started during upgrade and does not have impact on cluster operation.

- CEM-9278 The sFlow stats for the BMS added after initial provisioning of a cluster is not displayed. As a workaround, to enable sFlow stats for the BMS added post initial provisioning, execute the following:

1. Add the host as Remote Host in AppFormix UI.

Go to AppFormix Swagger API (**Settings > API Documentation > Link to AppFormix Documentation**).

Click **Show/Hide** to get the API Details.

Go to /Hosts POST API.

Set X-Auth-Type as OpenStack and fill the X-Auth-Token with Keystone token. Specify the following in the body:

```
{
  "HostName": "10.84.23.38", <<< Fill your IP
  "AgentBaseUrl": "",
  "Name": "b3s38", <<< Fill the hostname
  "HostType": "kvm",
  "LinkCapacity": "10G",
  "Source": "remote.host",
  "AutomaticInstanceDiscovery": false,
  "ServerId": "b3s38", << fill the hostname
  "Metadata": {}
}
```

Send POST request.

2. Once a device is added in the UI, go to **Settings > Network Devices**. Select the Network Device which you want to add to BMS.

Go to **Edit** section, set **LLD** to **Disabled**, select **SNMP**, click **Next** and set **snmp community string** and click **Save**.

Go to **Edit Connection Info > Continue**, select the **Network Device** and then **Add the Target Device** as BMS and set the interface on Network Device which is connected to this BMS and click **Save**.

Go to Contrail Command UI, the BMS stats can be seen.

- CEM-8701 While bringing up a BMS using the Life Cycle Management workflow, sometimes on faster servers the re-image does not go through and instance not moved from ironic vn to tenant vn. This is because if the PXE boot request from the BMS is sent before the routes are converged



between the BMS port and the TFTP service running in Contrail nodes. As a workaround, the servers can be rebooted or the BIOS in the servers can be configured to have a delayed boot.

- CEM-8149 BMS LCM with fabric set with `enterprise_style=True` is not supported. By default, `enterprise_style` is set to `False`. User should avoid using `enterprise_style=True` if the fabric object will onboard BMS LCM instance.
- CEM-7874 User defined alarms may not be generated, when third stunnel/Redis service instance is down after the first two instances were restarted.
- CEM-5788 Installation fails if FQDN is used to deploy Contrail Cluster through Contrail Command with OpenStack orchestration.
- CEM-5284 Cloud Compute/vRouter nodes are not listed in the cluster-nodes/compute node page, all nodes/computes are listed in the servers page
- CEM-5141 For deleting compute nodes, the UI workflow will not work. Instead, update the `instances.yaml` with `"ENABLE_DESTROY: True"` and `"roles:"` (leave it empty) and run the following playbooks.

```
ansible-playbook -i inventory/ -e orchestrator=openstack --tags nova playbooks/
install_openstack.yml
ansible-playbook -i inventory/ -e orchestrator=openstack playbooks/install_contrail.yml
```

For example:

```
global_configuration:
  ENABLE_DESTROY: True
  ...
  ...
instances:
  ...
  ...
  srvr5:
    provider: bms
    ip: 19x.xxx.x.55
    roles:
  ...
  ...
```

- CEM-5043 VNI update on a LR doesn't update the RouteTable. As a workaround, delete the LogicalRouter and create a new LogicalRouter with the new VNI.

- CEM-5041 Provisioning of Region or VPC objects only on the cloud without any nodes is not supported. Add atleast one node while provisioning Region/VPC.
- CEM-5024 Current multi cloud provisioning does not enable the On-prem TOR to exchange public cloud subnets with the On-Prem controllers. The user need to add static routes on the controllers to all the public cloud subnets.
- CEM-4941 The multicloud gateway on the public cloud cannot be shared across different subnets. Each subnet must have its own gateway.
- CEM-4865 Provisioning of Contrail Controllers on public cloud is not supported. Controllers need to be provisioned On-prem.
- CEM-4467 On DPDK computes, sometimes VM creation fails with "Connection is closed" error. The issue is not related to any of the contrail components. It is related to systemd-machined service in registering VMs. As a workaround, restart the systemd-machined service to fix the issue.
- CEM-4381 Contrail Fabric device manager tasks can fail if one or more Contrail API servers is down. Contrail-status on the Contrail config nodes can be used to determine if this situation occur.
- CEM-4370 After creating a PNF Service Instance, the fields like PNF eBGP ASN\*, RP IP Address, PNF Left BGP Peer ASN\*, Left Service VLAN\*, PNF Right BGP Peer ASN\*, Right Service VLAN\* cannot be modified. If there is a need to modify these values, delete and re-create the Service Instance with intended values.
- CEM-3959 BMS movement across TORs is not supported. To move BMS across TORs the whole VPG need to be moved. That means if there are more than one BMS associated to one VPG, and one of the BMS need to be moved, the whole VPG need to be deleted and re-configured as per the new association.
- CEM-3324 Users cannot provision Contrail Cluster entirely in Public cloud. Contrail Cluster need to be On-Prem and vRouters can be extended to public cloud.
- JCB-204796 In a Helm-based provisioned cluster, VM launch fails if MariaDB replication is set to >1.
- JCB-202874 After deleting a vRouter chart with DPDK, the NICs do not rebind to the host in Helm.
- JCB-190956 While creating ironic-provision, service address in the subnet must be pointing to openstack ironic node ip/kolla internal vip.
- JCB-187320 On a DPDK compute vif list -rate core-dumps with traffic.
- JCB-187287 High Availability provisioning of Kubernetes master is not supported.
- JCB-186493 When a snapshot of an active VM fails, shutdown the VM before generating the snapshot.

- JCB-184837 After provisioning Contrail by using a Helm-based provisioned cluster, restart nova-compute container.
- JCB-184776 When the vRouter receives the head fragment of an ICMPv6 packet, the head fragment is immediately enqueued to the assembler. The flow is created as hold flow and then trapped to the agent. If fragments corresponding to this head fragment are already in the assembler or if new fragments arrive immediately after the head fragment, the assembler releases them to flow module. Fragments get enqueued in the hold queue if agent does not write flow action by the time the assembler releases fragments to the flow module. A maximum of three fragments are enqueued in the hold queue at a time. The remaining fragments are dropped from the assembler to the flow module.

As a workaround, the head fragment is enqueued to assembler only after flow action is written by agent. If the flow is already present in non-hold state, it is immediately enqueued to assembler.

- JCB-177787 In DPDK vRouter use cases such as SNAT and LBaaS that require netns, jumbo MTU cannot be set. Maximum MTU allowed:  $\leq 1500$ .
- JCB-177541 When you receive an error message during Kolla provisioning, rerunning the code will not work. In order for the provisioning to work, restart provisioning from scratch.
- JCB-171466 Metadata SSL works only in HA deployment mode.
- JCB-163773 A false alarm for config service is generated when config and configdb services are installed on different nodes. Ignore the false alarm.
- JCB-162927 SR-IOV with DPDK co-existence deployment is not supported using contrail-helm-deployer.

## Known Behavior in Contrail Release 1912

- CEM-11479 vhost0 loses the IP address due to dhcpclient timeout. On one of the gateways, on the vhost0 interface the timeout for dhcp is set to 1582 seconds and it times out after that. The renewal of the lease fails as usual and vhost0 loses its IP.

As a workaround, perform the following steps only for Google Cloud GWs.

1. Log in to Google Cloud vrouter-gateway instances.
2. Check the DHCP lease on the vhost0 interface using the following command:

```
ip a | grep vhost0 -A3 | grep valid_lft
```

3. Check if the above command returns a forevervalue. For example:

```
[root@g3312v1g1 vrouter]# ip a | grep vhost0 -A3| grep valid_lft
```

```
valid_lft forever preferred_lft forever
```

4. Ensure that the value for 'valid\_lft' is NOT short in the 1K range, for instance 1582 seconds or less.



**NOTE:** This number keeps decrementing by second (units in time).

5. Disable the ifup-vhost script by running the following command.

```
chmod 400 /etc/sysconfig/network-scripts/ifup-vhost
```

6. Reboot the instance by running the following command.

```
reboot
```

Once the instance is up, check the vhost0 lease by rerunning the command in step ["1" on page 17](#). The value of 'valid\_lft' must be in the 157 million range.

- CEM-11411 Packet loss is seen on overlay ping of packet size starting from 1430 bytes across all providers.
  - In order to support jumbo frames for underlay and overlay from onPrem to AWS, ensure the onPrem contrail cluster and the underlay IP fabric support jumbo frames.
  - For Google Cloud, ensure that you use the instance c2-standard-8 for contrail Multicloud GW and a minimum of c2-standard-4 for vrouterCNI+k8snode.
  - Please check the MTU in each of the cloud and adjust the MTU accordingly, in case of any issues.
- CEM-11338 Reconfiguring sFlow collectors after deleting and adding a fabric back fails. On a well planned cluster deployment with sufficient sFlow nodes provisioned in the beginning will prevent this situation.
- CEM-11163 In Fortville X710 NIC: With TX and RX buffers performance degrade is observed as mbufs gets exhausted.
- CEM-11160 WebUI returns stack trace when navigating to config\_sc\_svcInstances in a JuJu based installation.
- CEM-10199 In public cloud deployments, after deleting the public cloud, the snapshots are left in the cloud. To clear them, the user has to log in to the respective cloud console (AWS/Azure/GCP) and deregister the AMLs and delete the snapshots from there.

- CEM-9979 During upgrade of DPDK computes deployed with OOO Heat Templates in RHOSP environment, vRouter coredumps are observed. This is due to the sequence in which the services are started during upgrade and does not have impact on cluster operation.
- CEM-9278 The sFlow stats for the BMS added after initial provisioning of a cluster is not displayed. As a workaround, to enable sFlow stats for the BMS added post initial provisioning, execute the following:

1. Add the host as Remote Host in AppFormix UI.

Go to AppFormix Swagger API (**Settings > API Documentation > Link to AppFormix Documentation**).

Click **Show/Hide** to get the API Details.

Go to /Hosts POST API.

Set X-Auth-Type as OpenStack and fill the X-Auth-Token with Keystone token. Specify the following in the body:

```
{
  "HostName": "10.84.23.38", <<< Fill your IP
  "AgentBaseUrl": "",
  "Name": "b3s38", <<< Fill the hostname
  "HostType": "kvm",
  "LinkCapacity": "10G",
  "Source": "remote.host",
  "AutomaticInstanceDiscovery": false,
  "ServerId": "b3s38", << fill the hostname
  "MetaData": {}
}
```

Send POST request.

2. Once a device is added in the UI, go to **Settings > Network Devices**. Select the Network Device which you want to add to BMS.

Go to **Edit** section, set **LLD** to **Disabled**, select **SNMP**, click **Next** and set **snmp community string** and click **Save**.

Go to **Edit Connection Info > Continue**, select the **Network Device** and then **Add the Target Device** as BMS and set the interface on Network Device which is connected to this BMS and click **Save**.

Go to Contrail Command UI, the BMS stats can be seen.

- CEM-8701 While bringing up a BMS using the Life Cycle Management workflow, sometimes on faster servers the re-image does not go through and instance not moved from ironic vn to tenant vn. This is because if the PXE boot request from the BMS is sent before the routes are converged between the BMS port and the TFTP service running in Contrail nodes. As a workaround, the servers can be rebooted or the BIOS in the servers can be configured to have a delayed boot.
- CEM-8149 BMS LCM with fabric set with `enterprise_style=True` is not supported. By default, `enterprise_style` is set to `False`. User should avoid using `enterprise_style=True` if the fabric object will onboard BMS LCM instance.
- CEM-7874 User defined alarms may not be generated, when third stunnel/Redis service instance is down after the first two instances were restarted.
- CEM-5788 Installation fails if FQDN is used to deploy Contrail Cluster through Contrail Command with OpenStack orchestration.
- CEM-5284 Cloud Compute/vRouter nodes are not listed in the cluster-nodes/compute node page, all nodes/computes are listed in the servers page
- CEM-5141 For deleting compute nodes, the UI workflow will not work. Instead, update the `instances.yaml` with `"ENABLE_DESTROY: True"` and `"roles:"` (leave it empty) and run the following playbooks.

```
ansible-playbook -i inventory/ -e orchestrator=openstack --tags nova playbooks/
install_openstack.yml
ansible-playbook -i inventory/ -e orchestrator=openstack playbooks/install_contrail.yml
```

For example:

```
global_configuration:
  ENABLE_DESTROY: True
  ...
  ...
instances:
  ...
  ...
  srvr5:
    provider: bms
    ip: 19x.xxx.x.55
    roles:
  ...
  ...
```

- CEM-5043 VNI update on a LR doesn't update the RouteTable. As a workaround, delete the LogicalRouter and create a new LogicalRouter with the new VNI.
- CEM-5041 Provisioning of Region or VPC objects only on the cloud without any nodes is not supported. Add at least one node while provisioning Region/VPC.
- CEM-5024 Current multi cloud provisioning does not enable the On-prem TOR to exchange public cloud subnets with the On-Prem controllers. The user needs to add static routes on the controllers to all the public cloud subnets.
- CEM-4941 The multicloud gateway on the public cloud cannot be shared across different subnets. Each subnet must have its own gateway.
- CEM-4865 Provisioning of Contrail Controllers on public cloud is not supported. Controllers need to be provisioned On-prem.
- CEM-4467 On DPDK computes, sometimes VM creation fails with "Connection is closed" error. The issue is not related to any of the contrail components. It is related to systemd-machined service in registering VMs. As a workaround, restart the systemd-machined service to fix the issue.
- CEM-4381 Contrail Fabric device manager tasks can fail if one or more Contrail API servers is down. Contrail-status on the Contrail config nodes can be used to determine if this situation occurs.
- CEM-4370 After creating a PNF Service Instance, the fields like PNF eBGP ASN\*, RP IP Address, PNF Left BGP Peer ASN\*, Left Service VLAN\*, PNF Right BGP Peer ASN\*, Right Service VLAN\* cannot be modified. If there is a need to modify these values, delete and re-create the Service Instance with intended values.
- CEM-3959 BMS movement across TORs is not supported. To move BMS across TORs the whole VPG needs to be moved. That means if there are more than one BMS associated to one VPG, and one of the BMS needs to be moved, the whole VPG needs to be deleted and re-configured as per the new association.
- CEM-3324 Users cannot provision Contrail Cluster entirely in Public cloud. Contrail Cluster needs to be On-Prem and vRouters can be extended to public cloud.
- JCB-204796 In a Helm-based provisioned cluster, VM launch fails if MariaDB replication is set to >1.
- JCB-202874 After deleting a vRouter chart with DPDK, the NICs do not rebind to the host in Helm.
- JCB-190956 While creating ironic-provision, service address in the subnet must be pointing to openstack ironic node ip/kolla internal vip.
- JCB-187320 On a DPDK compute vif list -rate core-dumps with traffic.
- JCB-187287 High Availability provisioning of Kubernetes master is not supported.

- JCB-186493 When a snapshot of an active VM fails, shutdown the VM before generating the snapshot.
- JCB-184837 After provisioning Contrail by using a Helm-based provisioned cluster, restart nova-compute container.
- JCB-184776 When the vRouter receives the head fragment of an ICMPv6 packet, the head fragment is immediately enqueued to the assembler. The flow is created as hold flow and then trapped to the agent. If fragments corresponding to this head fragment are already in the assembler or if new fragments arrive immediately after the head fragment, the assembler releases them to flow module. Fragments get enqueued in the hold queue if agent does not write flow action by the time the assembler releases fragments to the flow module. A maximum of three fragments are enqueued in the hold queue at a time. The remaining fragments are dropped from the assembler to the flow module.

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- JCB-162927 SR-IOV with DPDK co-existence deployment is not supported using contrail-helm-deployer.

## Resolved Issues

You can research limitations that are resolved with Contrail Networking releases 1912.L2, 1912.L1, and 1912 at:

[Resolved Issues in Contrail Networking Releases 1912.X](#)

Use your Juniper Support login credentials to view the list. If you do not have a Juniper Support account, you can register for one at <https://userregistration.juniper.net/>.



# Deprecated Items

The following feature has been deprecated in Contrail Networking Release 1912.L1.

- Installation and upgrade using Helm deployer
- Contrail Multicloud