

Release Notes for Contrail Release 3.0.1

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Release 3.0.1
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Introduction

Juniper Networks Contrail 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 list new features, known issues, and resolved items included in Contrail Release 3.0.1, a maintenance release for Contrail Release 3.0.

For a full description of new features, limitations, and known problems for Contrail Release 3.0, refer to [Release Notes for Contrail Release 3.0](#).

For full documentation of all features, refer to [Contrail Release 3.0, Feature Guide](#).

New Features

This release provides support for OpenStack Liberty on Ubuntu 14.04.2. Liberty is the 12th release of the OpenStack open source software for building public, private, and hybrid clouds.



NOTE: vCenter-as-compute is *NOT* supported on Liberty.

Known Issues

This section lists known limitations with this release. Bug numbers are listed and can be researched in [Launchpad.net](#) at <https://bugs.launchpad.net/juniperopenstack/r3.0>.

- [1544787](#) Procedure steps to upgrade the VDMK in an existing setup with VMware.
- [1550122](#) DPDK: After rebooting a compute node, the DPDK VMs go into an error state.
- [1546965](#) LBaaS: Internal server error while creating IPv6 VIP for LBaaS.
- [1544935](#) IPv6: Router SNAT not working for IPv6.
- [1485754](#) Device Manager: IRB IP is leaked if a VN<->PR link is deleted and re-added.
- [1549160](#) Active flows are created for intra-VN traffic with a random source IP.
- [1549786](#) The WebUI is getting logged out if the user selects the default project in Monitor Page.
- [1550612](#) SR-IOV: Configuring more than 32 VFs per physical function device (PF) causes the VM to go to an error state.
- [1495697](#) OpenStack high availability: The RabbitMQ cluster does not happen when a node is added.

- [1465744](#) Contrail and MX interoperation is affected when a VM goes via SNAT to a bare metal server (BMS) FIP.
- [1466777](#) Need to improve api-server and schema initialization times in a scale setup.
- [1551050](#) The UI is showing BGP peer down alarms for BGPaaS clients.
- [1540772](#) The IPv6 allow all egress rule should be added for a security group by default.
- [1551408](#) Service instance delete shouldn't be allowed when port-tuples are attached.
- [1551409](#) Deleting a port-tuple doesn't remove associated properties from the VMI.
- [1551410](#) Multiple service instances should be able to use the same health check object.
- [1551322](#) Server Manager Lite fails to bring up compute nodes when they are in different networks.
- [1552936](#) For a service chain, the high availability mode needs to be set in the IP object parameters.
- [1351979](#) Updating the allowed_address_pairs without any value or with the clear action creates an internal server error.
- [1370301](#) With the health monitor configured, the lb-member-list doesn't get updated when one of the members in the pool goes down.
- [1443600](#) ToR: It is possible to have the same VXLAN ID configured in multiple VNs.
- [1458794](#) The DNS configuration in the Docker container is wrong.
- [1461791](#) Server Manager: Server reimage is happening in a loop for ESX ISO when reimaging a cluster.
- [1463786](#) ToR Scale: Delete all using Web UI is failing.
- [1491791](#) ToR: 6 seconds of traffic loss during a control node switchover.
- [1493861](#) Agent crash @ bool VrfEntry::DeleteTimeout().
- [1547198](#) Inconsistency between ifmap and api-server.
- [1550315](#) Existing flows are moved to Hold state during ECMP update.
- [1457854](#) Multiple service VMs are spawned after 'FlavorDiskTooSmall' is seen.
- [1343442](#) Inconsistent mirroring action seen.
- [1403348](#) Inconsistent behavior when attaching or detaching a security group from a security instance.
- [1405849](#) Some instances error out upon spawning multiple VMs from a volume snapshot. Workaround included.
- [1412162](#) Ubuntu 12.04 2.1.2 Icehouse, OVSDDB: If a configuration leads to a commit error state, there is no point of recovery.
- [1454813](#) vCenter: With the same dvswitch or dv_port group name in multiple data centers, setup of vCenter fails.
- [1460241](#) SNAT Scale: A 504 Gateway timeout occurs upon clearing a gateway.

- [1463622](#) ECMP: Hash is incorrect if vRouter exports multiple labels for a route.
- [1467031](#) LBaaS: The standby netns instance is continuously ARPing for a BMS IP.
- [1468420](#) Device Manager scale: Partial configurations are applied on an MX device when pushing 16k FIPs.
- [1468474](#) ToR agent switchover results in BUM/ARP traffic loss.
- [1469296](#) Device Manager: Overlapping subnets are not supported for a BMS FIP scenario.
- [1414850](#) Interfaces on logical routers do not show up in the UI dashboard.
- [1492979](#) ToR BMS: Broadcast traffic is getting replicated for an invalid EVPN next hop and then discarded.
- [1548677](#) A health check failure doesn't withdraw advertised routes in the case of a multiple service in a chain.

Resolved Issues

This section lists limitations that are fixed with this release. Bug numbers are listed and can be researched in Launchpad at <https://launchpad.net/juniperopenstack/+milestone/r3.0.1.0>.

- [1547782](#) DPDK: A vhost0 with jumbo MTU traffic across or to computes stalls.
- [1548155](#) DPDK: Flows remain in hold state even at 5k CPS with HTTP traffic.
- [1549824](#) Unable to create VNs or ports with certain options.
- [1550492](#) ToR Scale: ToR agent crash @ OVSDB::LogicalSwitchTable::OvsdbMcastRemoteMacNotify.
- [1547735](#) vCenter: The vrouter-agent crashed when no events occurred.
- [1550499](#) ToR scale: ToR agent crash at LogicalSwitchEntry::DeleteOvs() .
- [1551453](#) Health check: DHCP doesn't work if health check fails.
- [1551598](#) vCenter: Plugin not upgraded during 2.21 to R3.0 upgrade.
- [1522597](#) Server Manager support for TLS certificate and key distribution.
- [1557782](#) Add port not working on a multiple vCenter setup.
- [1557786](#) vCenter: VMs are going to error state in a multiple vCenter setup.
- [1560847](#) Liberty: Unable to create a Heat stack.
- [1560712](#) Error syncing up a VM in plugin bootstrap, throws delete message.
- [1561589](#) vRouter: Continuous rmmmod and modprobe causes kernel crash or corruption.
- [1561642](#) An install_contrail aborts with unmet dependencies.
- [1561744](#) Multi-vCenter setup: VMs are not in sync from the API after restarting the vCenter plugin.

- [1561808](#) Liberty: Neutron service failure when OpenStack and cfm are on different nodes.
- [1562194](#) High availability fab provisioning failed for the R3.0-2727 build.
- [1563539](#) Server Manager: Correct the typo in raising exceptions in validations.py.
- [1547646](#) vCenter: Link-local services not working in vCenter-as-compute mode.
- [1546725](#) Server Manager: Need to have support for SR-IOV provisioning.
- [1548891](#) Query engine crash in SelectQuery::process_query.
- [1549228](#) Agent crash at KSyncFlowIndexEntry::InitSm()
- [1549541](#) Service instance scaling breaks the static route community logic.
- [1550479](#) UI: Quotas set in the api-server are not reflected in the Contrail UI.
- [1550603](#) High availability vCenter plugin failed to reconnect after a supervisor configuration restart.
- [1551089](#) DPDK: Agent crash in TimerManager::DeleteTimer(Timer*) () .
- [1551405](#) Restoring of configuration files needs to change from wholesale to specific.
- [1551503](#) vRouter taking 98% memory after a control node failure.
- [1551600](#) The collector hangs in the zookeeper client.
- [1552101](#) Traffic flow is not stable when the SVM's right port is configured as src ecmp, with port mirroring enabled.
- [1551647](#) UI: DNS is showing as enabled even if it is disabled in the Web UI.
- [1537700](#) Add support to run tests in a user-specified single tenant.
- [1552544](#) Hold Flow entries are present even after flow delete.
- [1552826](#) Agent crash in tbb::strict_ppl::internal::micro_queue.
- [1553379](#) A control node assertion failure occurs in DBEntryBase::ClearState.
- [1553656](#) Agent crash at PktTrace::Pkt::Copy.
- [1552203](#) Agent crashed at FlowTable::Update(FlowEntry*, FlowEntry*).
- [1551105](#) vRouter does not send ARP request without a gateway.
- [1552854](#) A Sandesh message statistics request is not displaying correct information.
- [1550589](#) Liberty: VM launch through Horizon failed.
- [1555257](#) Agent is stuck when global-vrouter-configuration is deleted.
- [1551912](#) Storage: Add support for Liberty.
- [1547784](#) OpenStack Liberty release support with Contrail packages.
- [1554940](#) Allocate label serially in the contrail-vrouter-agent for DPDK mode.
- [1555319](#) Server Manager UI: Bond member interfaces require an IP address in the UI and does not allow provision to get completed.

- [1555941](#) Skip snapshots of skipped_keyspaces fails if snapshots are already present.
- [1556348](#) The setup_storage aborts with a fatal error upon OpenStack service creation.
- [1549535](#) Contrail dashboard support for Liberty.
- [1556363](#) vRouter: Kernel crash occurs in vr_flow_lookup.
- [1539403](#) When a large burst of UDP flows are generated, some flows get into the Hold state.
- [1523854](#) A vrouter-agent crash at 0 0x00000000009b951d in VmInterface::DeleteMacVmBinding(VrfEntry const*) ().
- [1556861](#) Fix to backup_restore.
- [1552477](#) The database-nodemgr doesn't output a number correctly.
- [1554620](#) The redis_uve_restart unit test is flaky.
- [1557256](#) Storage: A Ceph NFS-based live migration provision failure in Liberty.
- [1551091](#) A newly created VMI does not get populated in the Create Eedit window if the Service Instance page is not clicked or refreshed.
- [1557427](#) A vRouter crash in PathPreferenceRouteListener::PathPreferenceRouteListener.
- [1555601](#) Server Manager: Purging the packages leaves the Server Manager process running.
- [1556353](#) The database backup is not skipping the defined key space.
- [1557755](#) Server Manager: Fix of reordering and other code changes that were introduced by the refactoring of Puppet.
- [1557798](#) Upon restoring databases using fab, it is not setting the owner of the zookeeper directory properly.
- [1557807](#) The Neutron lbaas-listener-create fails in Liberty.
- [1547236](#) VDNS: Default forwarders shouldn't be set for the VDNS zone.
- [1542516](#) Ability for VDNS subdomain delegation.
- [1558301](#) The vCenter orchestrator setup_all failed.
- [1558295](#) vCenter-as-compute: Fixing the MTU of the ContrailVM.
- [1558719](#) The compute reboot fails for a Server Manager upgrade of Contrail 3.0->3.0 (higher build).
- [1558879](#) A kernel crash dump is not working with Server Manager.
- [1531712](#) A controller crash occurs in OpServerProxy.cc : reply->type != 6 .
- [1560199](#) The schema transformer is crashing in add_rules for network policy.
- [1560263](#) The Redis query connection is down after Cassandra goes down and comes up.
- [1560236](#) Server Manager provisioning: A Zookeeper node is wrongly configured as a config node instead of a db node.

- [1560690](#) Heat: Liberty requires support for the attributes_schema change in resources.
- [1552921](#) No bandwidth stats found in: StatTable.VrouterStatsAgent.phy_if_band or StatTable.UveVMInterfaceAgent.if_stats.
- [1562089](#) Provisioning: Non-default region name is not set for compute service.
- [1563577](#) Server Manager: Add configuration for logging to set log size and max backups.
- [563773](#) Disable system log message for route add, delete in agent.
- [1557891](#) A vRouter crash in XmppConnection::WriteReady.
- [1542128](#) Use enable flags to provision optional services like snmp-collector, device-manager.
- [1541129](#) vCenter-as-compute: Service instance deletion failed.
- [1549339](#) Sending AAP without a MAC field results in an api-server error.
- [1549624](#) Remove duplicate short and drop flow messages.
- [1551201](#) TCP flows are not deleted according to the flow aging configuration.
- [1551123](#) Service Instance UI: Even if there is no VMI for the VN, the user should be able to create a service instance without port-tuple.
- [1548661](#) vCenter as compute: Bulk delete of VMs from Horizon is failing.
- [1546887](#) Routes with the same prefix from static route tables should be accepted as ECMP routes.
- [1550627](#) Need changes to backup_restore to allow backup only to snapshots.
- [1553294](#) UI: Remove the route-aggregate configuration option for the transparent service instance.
- [1553295](#) UI: Shared VNs are not shown as an option for the mgmt, left, right VNs for a service instance.
- [1549466](#) Provide example notification script for alarm.
- [1554236](#) Flows are getting stuck in a Hold state if an ICMP error is received.
- [1554699](#) Some vDNS records are missing after the vRouter switches controllers for contrail-dns.
- [1549659](#) UI: Getting "Uncaught TypeError" when clicking on the export button of the Global Config UI.
- [1548757](#) vRouter: Add a 'GET' option for the 'rt' command.
- [1543026](#) An openjdk-7 upgrade is needed for security fixes.
- [1558933](#) Ability needed to handle a security group ID change in the contrail-vrouter-agent.
- [1560252](#) UI: Enhancement request for vDNS record deletion.
- [1467897](#) Server Manager: The Keystone server is erroneously provisioned on config nodes.

- [1560287](#) Stabilize the static_route_test.
- [1560741](#) Neutron LBaaS member state is reflected incorrectly.
- [1562077](#) ImportError occurs while running the contrail-alarm-notify script.
- [1562171](#) Deleting a VDNS server through the UI is returning an error with an empty message.
- [1559387](#) vCenter as compute: The ContrailUI reports a VM name as its UUID.
- [1562722](#) Ability for linklocal to use metadata IP as the source IP when the service IP for the subnet is not configured.
- [1563014](#) A typo is introduced in the analytics_test.py by lldb6977fe3c88d4ef5d5264422b6a6b452a491a7.
- [1560227](#) Server Manager Monitoring: When a deleted server is re-added, the option deleted = true is not reset.
- [1526260](#) An old IP address remained even after instance-ip was updated.
- [1564223](#) Contrail-analytics-api status is stuck in "initializing (UvePartitions:UVE-Aggregation[None] connection down)" after upgrades from R2.2x to R3.0.1.0-17 Juno.
- [1564669](#) The service RI gets deleted and recreated after an SNAT gateway clear.
- [1549967](#) Server Manager: Upload-image after delete image fails.
- [1561860](#) Add introspect to display the TaskScheduler summary info.
- [1551229](#) Server Manager Lite UI: Monitoring details are not populated, although the corresponding daemon is running.
- [1508044](#) An error occurs in the schema transformer and instances fail to resolve a DHCP IP in a specific scenario.
- [1558875](#) The TTL value of analytics_data_ttl is wrongly considered in place of analytics_config_audit_ttl.
- [1562456](#) Use the device.<vlanid> instead of the vlan<vlanid> format to create VLAN interfaces.
- [1564023](#) LBaaS: The api_extension_path is not set correctly for Liberty.
- [1564242](#) vRouter: Protocol xyz buggy messages appear in the log.
- [1564572](#) LBaaS: Import errors in loadbalancer_member.py.
- [1561609](#) The svc_monitor scheduling does not handle an empty availability_zone.

Documentation Feedback

We encourage you to provide feedback, comments, and suggestions so that we can improve the documentation. You can provide feedback by using either of the following methods:

- Online feedback rating system—On any page of the Juniper Networks TechLibrary site at <http://www.juniper.net/techpubs/index.html>, simply click the stars to rate the content, and use the pop-up form to provide us with information about your experience. Alternately, you can use the online feedback form at <http://www.juniper.net/techpubs/feedback/>.
- E-mail—Send your comments to techpubs-comments@juniper.net. Include the document or topic name, URL or page number, and software version (if applicable).

Requesting Technical Support

Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or Partner Support Service support contract, or are covered under warranty, and need post-sales technical support, you can access our tools and resources online or open a case with JTAC.

- JTAC policies—For a complete understanding of our JTAC procedures and policies, review the *JTAC User Guide* located at <http://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf>.
- Product warranties—For product warranty information, visit <http://www.juniper.net/support/warranty/>.
- JTAC hours of operation—The JTAC centers have resources available 24 hours a day, 7 days a week, 365 days a year.

Self-Help Online Tools and Resources

For quick and easy problem resolution, Juniper Networks has designed an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

- Find CSC offerings: <http://www.juniper.net/customers/support/>
- Search for known bugs: <http://www2.juniper.net/kb/>
- Find product documentation: <http://www.juniper.net/techpubs/>
- Find solutions and answer questions using our Knowledge Base: <http://kb.juniper.net/>
- Download the latest versions of software and review release notes: <http://www.juniper.net/customers/csc/software/>
- Search technical bulletins for relevant hardware and software notifications: <http://kb.juniper.net/InfoCenter/>
- Join and participate in the Juniper Networks Community Forum: <http://www.juniper.net/company/communities/>
- Open a case online in the CSC Case Management tool: <http://www.juniper.net/cm/>

To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool: <https://tools.juniper.net/SerialNumberEntitlementSearch/>

Opening a Case with JTAC

You can open a case with JTAC on the Web or by telephone.

- Use the Case Management tool in the CSC at <http://www.juniper.net/cm/>.
- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).

For international or direct-dial options in countries without toll-free numbers, see <http://www.juniper.net/support/requesting-support.html>.

Revision History

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