

MOSK Release Notes

version latest

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Product highlights

Mirantis OpenStack on Kubernetes (MOSK) represents a frictionless cloud infrastructure on-premise. MOSK Ussuri is integrated with Container Cloud bare metal with Ceph and StackLight onboard and, optionally, supports Tungsten Fabric 5.1 as a back end for the OpenStack networking. In terms of updates, MOSK Ussuri fully relies on the Container Cloud update delivery mechanism.

OpenStack Ussuri

MOSK provides support for OpenStack Ussuri and the following OpenStack components of this release, in particular:

- Identity service (Keystone)
- Compute service (Nova)
- Image service (Glance)
- Block Storage service (Cinder)
- Orchestration (Heat)
- Networking (Neutron)
- Load Balancer (Octavia)
- DNS service (Designate)
- Dashboard (Horizon)
- Key management (Barbican)
- Tempest

Learn more

- [MOSK Reference Architecture](#)
- [MOSK Deployment Guide](#)
- [MOSK Operations Guide](#)

Tungsten Fabric 5.1

MOSK provides support for Tungsten Fabric 5.1 as an SDN back end for OpenStack.

The list of the key highlights include:

- Integration with OpenStack Ussuri
- Implementation of the Octavia Tungsten Fabric driver for OpenStack LBaaS

- LCM operations for supported Tungsten Fabric services as well as third-party services such as Cassandra, ZooKeeper, Kafka, Redis, and RabbitMQ.

Learn more

- [MOSK Reference Architecture: Tungsten Fabric](#)
- [MOSK Deployment Guide: Deploy Tungsten Fabric](#)
- [MOSK Operations Guide: Tungsten Fabric operations](#)

Major components versions

Mirantis has tested MOSK against a very specific configuration and can guarantee a predictable behavior of the product only in the exact same environments. The table below includes the major MOSK components with the exact versions against which testing has been performed.

MOSK GA components versions

Component	Version
Cluster release	6.8.1
OpenStack	Ussuri
openstack-operator	0.3.9
Tungsten Fabric	5.1
tungstenfabric-operator	0.1.3

Known issues

This section contains the description of the known issues with available workarounds.

OpenStack known issues and limitations

- Limitations
 - [6912] Octavia load balancers may not work properly with DVR
 - [8573] External authentication to Horizon fails to log in a different user
-

Limitations

Due to limitations in the Octavia and MOSK integration, the clusters where Neutron is deployed in the Distributed Virtual Router (DVR) mode are not stable. Therefore, Mirantis does not recommend such configuration for production deployments.

[6912] Octavia load balancers may not work properly with DVR

Target fix version: next MOSK update

When Neutron is deployed in the DVR mode, Octavia load balancers may not work correctly. The symptoms include both failure to properly balance traffic and failure to perform an amphora failover.

[8573] External authentication to Horizon fails to log in a different user

Target fix version: next MOSK update

Horizon retains the user credentials following their initial login using External Authentication Service and does not allow to log in with another user credentials.

Workaround:

1. Clear cookies in your browser.
2. Select External Authentication Service on the Horizon login page.
3. Click Sign In. The Keycloak login page opens.

If the following error occurs, refresh the page and try again:

CSRF token missing or incorrect. Cookies may be turned off.
Make sure cookies are enabled and try again.

Tungsten Fabric known issues and limitations

- Limitations
 - [8469] Load balancer port always has default security group
 - [8293] Error messages on attempts to use loggers
-

Limitations

- Tungsten Fabric is not monitored by StackLight
- Tungsten Fabric does not support the following OpenStack services:
 - DNS service (Designate)
 - Key management (Barbican)
 - Neutron RBAC

Learn more

[MOSK Reference Architecture: Tungsten Fabric known limitations](#)

[8469] Load balancer port always has default security group

Octavia always enables a default security group for a newly created load balancer causing the issue with the load balancer accessibility. To workaround the issue, select one of the following options:

- Add the required rules to the default security group.
 - Delete the security group through the Tungsten Fabric web UI:
 1. Navigate to Configure > Networking > Ports.
 2. Remove the security group from the non-VIP ports. The VIP port has neutron:LOADBALANCER in the Device column.
-

[8293] Error messages on attempts to use loggers

The HAProxy service, which is used as a back end for load balancers in Tungsten Fabric, uses non-existing socket files from the log collection service. This error in the configuration causes the logging of error messages on attempts to use loggers in `contrail-lbaas-haproxy-stdout.log`. The issue does not affect the service operability.

Release artifacts

This section lists the components artifacts of the MOSK Ussuri release:

- OpenStack Ussuri release artifacts
- Tungsten Fabric release artifacts

OpenStack Ussuri release artifacts

Artifact	Component	Path
Binaries	octavia-amphora	https://binary.mirantis.com/openstack/bin/octavia/amphora-x64-haproxy-ussuri-20200926005743.qcow2
	mirantis	https://binary.mirantis.com/openstack/bin/horizon/mirantis-ussuri-26b0ff5.tar.gz
Docker images	placement	mirantis.azurecr.io/openstack/placement:ussuri-bionic-20201019180023
	keystone	mirantis.azurecr.io/openstack/keystone:ussuri-bionic-20201019180023
	heat	mirantis.azurecr.io/openstack/heat:ussuri-bionic-20201019180023
	glance	mirantis.azurecr.io/openstack/glance:ussuri-bionic-20201019180023
	cinder	mirantis.azurecr.io/openstack/cinder:ussuri-bionic-20201019180023
	neutron	mirantis.azurecr.io/openstack/neutron:ussuri-bionic-20201019180023
	nova	mirantis.azurecr.io/openstack/nova:ussuri-bionic-20201019180023
	horizon	mirantis.azurecr.io/openstack/horizon:ussuri-bionic-20201019180023
	tempest	mirantis.azurecr.io/openstack/tempest:ussuri-bionic-20201019180023
	dashboard-selenium	mirantis.azurecr.io/openstack/dashboard-selenium:ussuri-bionic-20201006074752
octavia	mirantis.azurecr.io/openstack/octavia:ussuri-bionic-20201019180023	
designate	mirantis.azurecr.io/openstack/designate:ussuri-bionic-20201019180023	

	ironic	mirantis.azurecr.io/openstack/ironic:ussuri-bionic-20201019180023
	barbican	mirantis.azurecr.io/openstack/barbican:ussuri-bionic-20201019180023
	libvirt	mirantis.azurecr.io/general/libvirt:6.0.0-bionic-20201007084753
	pause	mirantis.azurecr.io/general/external/pause:3.1
	openvswitch	mirantis.azurecr.io/general/openvswitch:2.11-bionic-20200812034813
	rabbitmq-3.8	mirantis.azurecr.io/general/rabbitmq:3.8.7
	rabbitmq-3.8-management	mirantis.azurecr.io/general/rabbitmq:3.8.7-management
	kubernetes-entrypoint	mirantis.azurecr.io/openstack/extra/kubernetes-entrypoint:v1.0.0-20200311160233
	docker	mirantis.azurecr.io/openstack/extra/docker:17.07.0
	memcached	mirantis.azurecr.io/general/memcached:1.6.6-alpine
	ceph-config-helper	mirantis.azurecr.io/openstack/extra/ceph-config-helper:nautilus-bionic-20200810084204
	etcd	mirantis.azurecr.io/openstack/extra/etcd:3.2.26
	powerdns	mirantis.azurecr.io/openstack/extra/powerdns:4.2-alpine-20200117133238
	nginx-ingress-controller	mirantis.azurecr.io/openstack/extra/nginx-ingress-controller:0.32.0
	defaultbackend	mirantis.azurecr.io/openstack/extra/defaultbackend:1.0
	mariadb	mirantis.azurecr.io/general/mariadb:10.4.14-bionic-20200812025059
	rabbitmq-exporter	mirantis.azurecr.io/stacklight/rabbitmq-exporter:v0.29.0
	prometheus-memcached-exporter	mirantis.azurecr.io/stacklight/memcached-exporter:v0.5.0
	prometheus-mysql-exporter	mirantis.azurecr.io/stacklight/mysqld-exporter:v0.11.0
	xrally-openstack	mirantis.azurecr.io/openstack/extra/xrally-openstack:1.5.0
	aodh	mirantis.azurecr.io/openstack/aodh:ussuri-bionic-20201019180023
	panko	mirantis.azurecr.io/openstack/panko:ussuri-bionic-20201019180023

	ceilometer	mirantis.azurecr.io/openstack/ceilometer:ussuri-bionic-20201019180023
	gnocchi	mirantis.azurecr.io/openstack/gnocchi:ussuri-bionic-20201019180023
	redis	mirantis.azurecr.io/openstack/extra/redis:5.0-alpine
Helm charts	openstack-operator	https://binary.mirantis.com/openstack/helm/openstack-controller/openstack-operator-0.3.9.tgz
	aodh	https://binary.mirantis.com/openstack/helm/openstack-helm/aodh-0.1.0-mcp-3742.tgz
	barbican	https://binary.mirantis.com/openstack/helm/openstack-helm/barbican-0.1.0-mcp-3742.tgz
	ceilometer	https://binary.mirantis.com/openstack/helm/openstack-helm/ceilometer-0.1.0-mcp-3742.tgz
	cinder	https://binary.mirantis.com/openstack/helm/openstack-helm/cinder-0.1.0-mcp-3742.tgz
	designate	https://binary.mirantis.com/openstack/helm/openstack-helm/designate-0.1.0-mcp-3742.tgz
	glance	https://binary.mirantis.com/openstack/helm/openstack-helm/glance-0.1.0-mcp-3742.tgz
	heat	https://binary.mirantis.com/openstack/helm/openstack-helm/heat-0.1.0-mcp-3742.tgz
	horizon	https://binary.mirantis.com/openstack/helm/openstack-helm/horizon-0.1.0-mcp-3742.tgz
	ironic	https://binary.mirantis.com/openstack/helm/openstack-helm/ironic-0.1.0-mcp-3742.tgz
	keystone	https://binary.mirantis.com/openstack/helm/openstack-helm/keystone-0.1.0-mcp-3742.tgz
	magnum	https://binary.mirantis.com/openstack/helm/openstack-helm/magnum-0.1.0-mcp-3742.tgz
	mistral	https://binary.mirantis.com/openstack/helm/openstack-helm/mistral-0.1.0-mcp-3742.tgz
	neutron	https://binary.mirantis.com/openstack/helm/openstack-helm/neutron-0.1.0-mcp-3742.tgz
	nova	https://binary.mirantis.com/openstack/helm/openstack-helm/nova-0.1.0-mcp-3742.tgz
	octavia	https://binary.mirantis.com/openstack/helm/openstack-helm/octavia-0.1.0-mcp-3742.tgz
	panko	https://binary.mirantis.com/openstack/helm/openstack-helm/panko-0.1.0-mcp-3742.tgz

rally	https://binary.mirantis.com/openstack/helm/openstack-helm/rally-0.1.0-mcp-3742.tgz
senlin	https://binary.mirantis.com/openstack/helm/openstack-helm/senlin-0.1.0-mcp-3742.tgz
tempest	https://binary.mirantis.com/openstack/helm/openstack-helm/tempest-0.1.0-mcp-3742.tgz
dashboard-selenium	https://binary.mirantis.com/openstack/helm/openstack-helm/dashboard-selenium-0.1.0-mcp-3742.tgz
placement	https://binary.mirantis.com/openstack/helm/openstack-helm/placement-0.1.0-mcp-3742.tgz
calico	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/calico-0.1.0-mcp-2650.tgz
ceph-client	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/ceph-client-0.1.0-mcp-2650.tgz
ceph-mon	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/ceph-mon-0.1.0-mcp-2650.tgz
ceph-osd	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/ceph-osd-0.1.0-mcp-2650.tgz
ceph-provisioners	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/ceph-provisioners-0.1.0-mcp-2650.tgz
ceph-rgw	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/ceph-rgw-0.1.0-mcp-2650.tgz
dnsmasq	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/dnsmasq-0.1.0-mcp-2650.tgz
elastic-apm-server	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/elastic-apm-server-0.1.0-mcp-2650.tgz
elastic-filebeat	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/elastic-filebeat-0.1.0-mcp-2650.tgz
elastic-metricbeat	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/elastic-metricbeat-0.1.0-mcp-2650.tgz
elastic-packetbeat	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/elastic-packetbeat-0.1.0-mcp-2650.tgz
elasticsearch	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/elasticsearch-0.1.0-mcp-2650.tgz
etcd	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/etcd-0.1.0-mcp-2650.tgz
falco	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/falco-0.1.0-mcp-2650.tgz
flannel	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/flannel-0.1.0-mcp-2650.tgz

	fluentbit	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/fluentbit-0.1.0-mcp-2650.tgz
	fluentd	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/fluentd-0.1.0-mcp-2650.tgz
	gnocchi	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/gnocchi-0.1.0-mcp-2650.tgz
	grafana	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/grafana-0.1.0-mcp-2650.tgz
	helm-toolkit	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/helm-toolkit-0.1.0-mcp-2650.tgz
	ingress	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/ingress-0.1.0-mcp-2650.tgz
	kibana	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/kibana-0.1.0-mcp-2650.tgz
	kube-dns	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/kube-dns-0.1.0-mcp-2650.tgz
	kubernetes-keystone-webhook	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/kubernetes-keystone-webhook-0.1.0-mcp-2650.tgz
	ldap	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/ldap-0.1.0-mcp-2650.tgz
	libvirt	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/libvirt-0.1.0-mcp-2650.tgz
	lockdown	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/lockdown-0.1.0-mcp-2650.tgz
	mariadb	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/mariadb-0.1.0-mcp-2650.tgz
	memcached	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/memcached-0.1.0-mcp-2650.tgz
	mongodb	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/mongodb-0.1.0-mcp-2650.tgz
	nagios	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/nagios-0.1.0-mcp-2650.tgz
	nfs-provisioner	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/nfs-provisioner-0.1.0-mcp-2650.tgz
	openvswitch	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/openvswitch-0.1.0-mcp-2650.tgz
	podsecuritypolicy	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/podsecuritypolicy-0.1.0-mcp-2650.tgz

	postgresql	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/postgresql-0.1.0-mcp-2650.tgz
	powerdns	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/powerdns-0.1.0-mcp-2650.tgz
	prometheus	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/prometheus-0.1.0-mcp-2650.tgz
	prometheus-alertmanager	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/prometheus-alertmanager-0.1.0-mcp-2650.tgz
	prometheus-kube-state-metrics	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/prometheus-kube-state-metrics-0.1.0-mcp-2650.tgz
	prometheus-node-exporter	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/prometheus-node-exporter-0.1.0-mcp-2650.tgz
	prometheus-openstack-exporter	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/prometheus-openstack-exporter-0.1.0-mcp-2650.tgz
	prometheus-process-exporter	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/prometheus-process-exporter-0.1.0-mcp-2650.tgz
	rabbitmq	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/rabbitmq-0.1.0-mcp-2650.tgz
	redis	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/redis-0.1.0-mcp-2650.tgz
	registry	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/registry-0.1.0-mcp-2650.tgz
	tiller	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/tiller-0.1.0-mcp-2650.tgz
	zookeeper	https://binary.mirantis.com/openstack/helm/openstack-helm-infra/zookeeper-0.1.0-mcp-2650.tgz

Tungsten Fabric release artifacts

Artifact	Component	Path
Binaries	Tungsten Fabric Operator	https://binary-mirantis-com/tungsten/helm/tungstenfabric-operator-0.1.3.tgz
Docker images	TF Analytics	mirantis.azurecr.io/tungsten/contrail-analytics-api:5.1.20201022210010

		mirantis.azurecr.io/tungsten/contrail-analytics-collector:5.1.20201022210010
	TF Analytics Alarm	mirantis.azurecr.io/tungsten/contrail-analytics-alarm-gen:5.1.20201022210010
	TF Analytics DB	mirantis.azurecr.io/tungsten/contrail-analytics-query-engine:5.1.20201022210010
	TF Analytics SNMP	mirantis.azurecr.io/tungsten/contrail-analytics-snmp-collector:5.1.20201022210010
		mirantis.azurecr.io/tungsten/contrail-analytics-snmp-topology:5.1.20201022210010
	TF Config	mirantis.azurecr.io/tungsten/contrail-controller-config-api:5.1.20201022210010
		mirantis.azurecr.io/tungsten/contrail-controller-config-devicemgr:5.1.20201022210010
		mirantis.azurecr.io/tungsten/contrail-controller-config-schema:5.1.20201022210010
		mirantis.azurecr.io/tungsten/contrail-controller-config-svcmonitor:5.1.20201022210010
	TF Control	mirantis.azurecr.io/tungsten/contrail-controller-control-control:5.1.20201022210010
		mirantis.azurecr.io/tungsten/contrail-controller-control-dns:5.1.20201022210010
		mirantis.azurecr.io/tungsten/contrail-controller-control-named:5.1.20201022210010
	TF Web UI	mirantis.azurecr.io/tungsten/contrail-controller-webui-job:5.1.20201022210010
		mirantis.azurecr.io/tungsten/contrail-controller-webui-web:5.1.20201022210010
	Nodemanager	mirantis.azurecr.io/tungsten/contrail-nodemgr:5.1.20201022210010
	TF Status	mirantis.azurecr.io/tungsten/contrail-status:5.1.20201022210010
		mirantis.azurecr.io/tungsten/contrail-tf-status:5.1.20201022210010
		mirantis.azurecr.io/tungsten/contrail-tf-status-aggregator:5.1.20201022210010
		mirantis.azurecr.io/tungsten/contrail-tf-status-party:5.1.20201022210010
		mirantis.azurecr.io/tungsten/contrail-tungsten-pytest:5.1.20201022210010

	TF VRouter	mirantis.azurecr.io/tungsten/contrail-vrouter-agent:5.1.20201022210010
		mirantis.azurecr.io/tungsten/contrail-vrouter-kernel-build-init:5.1.20201022210010
	Cassandra operator	mirantis.azurecr.io/tungsten-operator/casskop:v0.5.3-release
	Cassandra	mirantis.azurecr.io/tungsten/cassandra-bootstrap:0.1.4
		mirantis.azurecr.io/tungsten/cassandra:3.11.6
	Kafka operator	mirantis.azurecr.io/tungsten-operator/kafka-k8s-operator:0.0.6
	Kafka	mirantis.azurecr.io/tungsten/cp-kafka:5.5.2
	RabbitMQ operator	mirantis.azurecr.io/tungsten-operator/rabbitmq-operator:0.0.7
	RabbitMQ	mirantis.azurecr.io/general/rabbitmq:3.8.7
	Zookeeper operator	mirantis.azurecr.io/tungsten-operator/zookeeper-operator:0.2.9
	Zookeeper	mirantis.azurecr.io/tungsten/zookeeper:3.6.1-0.2.9
	Redis operator	mirantis.azurecr.io/tungsten-operator/redis-operator:0.1.5-1-ccd6a63
	Redis	mirantis.azurecr.io/tungsten/redis:5-alpine