

# MCP Release Compatibility Matrix

version q4-18

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## MCP components compatibility matrices

The MCP components compatibility matrices included in this document are aimed to provide the deployment logic for a certain MCP release. By using the matrices, you will be able to:

- Learn about the versions of MCP components that are included in a certain MCP release
- Determine the potential upgrade paths between component versions when upgrading from one MCP version to another

**Note**

The versions compatibility between the MCP components does not necessarily mean that the Mirantis support currently covers all possible combinations of the components. For the official Mirantis support details, see [Mirantis OpenStack Releases](#).

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### MCP version history

Version	Q3-2017	2017.12	2018.4.0	2018.8.0	2018.8.0-milestone1	2018.11.0	2019.2.0	2019.2.0 current release
Release date	26-Sep-2017	31-Jan-2018	24-Apr-2018	15-Aug-2018	04-Oct-2018	26-Nov-2018	08-Feb-2019	22-Dec-2023

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### MCP lifecycle management components compatibility matrix

<b>Component</b>	<b>Q3-2017</b>	<b>2017.12</b>	<b>2018.4.0</b>	<b>2018.8.0</b>	<b>2018.8.0-milestone1</b>	<b>2018.11.0</b>	<b>2019.2.0</b>	<b>2019.2.0 current release</b>
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## MCP Release Compatibility Matrix

DriveTrain	Q3-2017	2017.12	2018.4.0	2018.8.0	2018.8.0-milestone1	2018.11.0	2019.2.0	2019.2.26
Aptly	0.9.7	1.2.0	1.2.0	1.3.0	1.3.0	1.3.0	1.3.0	1.3.0
aptly-publisher	0.12.4-1	0.12.4-1	0.12.11	0.12.11	0.12.11	0.12.11	0.12.12	0.12.12
Gerrit	2.13.6	2.13.6	2.13.6	2.13.6	2.13.6	2.13.6	2.13.6	2.15.17
jenkins-master	2.52	2.93	2.100	2.121.2, 2.100	2.121.2, 2.100	2.121.2, 2.121.3	2.138.3	2.263.4
Jenkins pipeline-library	Q3-2017	2017.12	2018.4.0	2018.8.0	2018.8.0-milestone1	2018.11.0	2019.2.0	2019.2.0
MAAS	2.3.0	2.3.0	2.3.0	2.3.3	2.3.3	2.3.5	2.3.5	2.3.5
OpenLDAP	2.4.40	2.4.40	2.4.40	2.4.40	2.4.40	2.4.40	2.4.44	2.4.44
PostgreSQL	9.6.2	9.6.6-1	9.6.6-1	9.6	9.6	9.6	9.6.10	9.6.10
Reclass	1.4.1	1.4.1	1.4.1	1.4.1-1tcp4	1.4.1-1tcp4	1.5.1-1tcp4	1.5.6-1.0~u16.04+mc p0	1.5.6-1.0~u16.04+mc p8
Reclass model	Q3-2017	2017.12	2018.4.0	2018.8.0	2018.8.0-milestone1	2018.11.0	2019.2.0	2019.2.0
SaltStack	2016.3	2016.3.8	2016.3.8	2017.7	2017.7	2017.7.7	2017.7.8	2017.7.8
Salt formulas	Q3-2017	2017.12	2018.4.0	2018.8.0	2018.8.0-milestone1	2018.11.0	2019.2.0	2019.2.0
sosreport	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3.8.0-1~u16.04+mcp4 <sup>2</sup>

MCP operations support components compatibility matrix

MCP Release Compatibility Matrix

Component	Q3-2017	2017.12	2018.4.0	2018.8.0	2018.8.0-milestone1	2018.11.0	2019.2.0	2019.2.0 current release
StackLight	Q3-2017	2017.12	2018.4.0	2018.8.0	2018.8.0-milestone1	2018.11.0	2019.2.0	2019.2.0
Alerta	-	-	-	5.2.0	5.2.0	5.6.10	6.5.0	6.5.0
Alertmanager	0.6.2	0.11.0	0.11.0	0.14.0	0.14.0	0.14.0	0.15.3	0.14.0
Ceilometer	✓ version depends on OS version	✓ version depends on OS version	_ moved to OS	_ moved to OS	_ moved to OS	_ moved to OS	_ moved to OS	_ moved to OS
Elasticsearch	2.4.5	5.6.5	5.6.8	5.6.9	5.6.9	5.6.12	6.5.2	6.8.0
Fluentd	-	-	1.0.2	1.0.2	1.0.2	1.0.2	1.2.6	1.2.6
Grafana	4.3.2	4.5.2	4.5.2	5.1.3	5.1.3	5.2.4	5.3.4	5.3.4
Heka	0.10.1	0.10.1	0.10.1	0.10.1	0.10.1	0.10.1	0.10.1	0.10.1
InfluxDB	1.3.3-1	1.4.2	1.5.0	1.5.2-1	1.5.2-1	1.5.2-1	1.5.2-1	1.5.2-1
jmx-exporter	-	-	0.10~20170912072743	0.10~20180716100330	0.10~20180716100330	1:0.9-2~u16.04+mcp21	1:0.9-2~u16.04+mcp21	2:0.3.2-2~u16.04+mcp4
Kibana	4.6.4	5.6.5	5.6.8	5.6.9	5.6.9	5.6.12	6.5.2	6.8.0
libvirt-exporter	-	-	0.1~20180319200151	0.1~20180319200151	0.1~20180319200151	0.1-1~u16.04+mcp0	0.1-1~u16.04+mcp0	0.1-1~u16.04+mcp8
MongoDB	-	-	-	2.6.10	2.6.10	2.6.10	2.6.10	2.6.10
Prometheus	1.6.3	2.0.0	2.2.1	2.2.1	2.2.1	2.2.1	2.5.0	2.12.0
Pushgateway	0.4.0	0.4.0	0.4.0	0.4.0	0.4.0	0.4.0	0.6.0	0.6.0
Telegraf	1.2	1.5	1.5.3	1.5.3	1.5.3	1.5.3	1.9.1	1.9.1

MCP Release Compatibility Matrix

MCP infrastructure components compatibility matrix

Component	Q3-2017	2017.1.2	2018.4.0	2018.8.0	2018.8.0-milestone1	2018.1.0	2019.2.0	2019.2.0 current release
OpenStack	Kilo	-	-	-	-	-	-	-
	Liberty	-	-	-	-	-	-	-
	Mitaka	Mitaka	Mitaka	-	-	-	-	-
	Ocata	Ocata	Ocata	Ocata	Ocata	Ocata	-	-
	-	-	Pike	Pike	Pike	Pike	Pike	Pike
	-	-	-	-	-	Queens	Queens	Queens
Aodh	-	-	✓ P	✓ P	✓ P	✓ P	✓ P	✓ P
Barbican	-	-	✓ P	✓ P	✓ P	✓ P	✓ P	✓ P
BGP VPN	-	-	✓ P	✓ P	✓ P	✓ P	✓ P	✓ P
Ceilometer	-	-	✓ P	✓ P	✓ P	✓ P	✓ P	✓ P
Cinder	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *
Designate	-	-	✓ O	✓ O	✓ O	✓ O	✓ O	✓ O
Glance	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *
Gnocchi	-	-	✓ P	✓ P	✓ P	✓ P	✓ P	✓ P
Heat	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *
Horizon	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *
Ironic	✓ TechPr	✓ TechPr	✓ TechPr	✓ TechPr	✓ TechPr	✓ TechPr	✓ TechPr	✓
Keystone	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *
L2 Gateway	-	-	✓ P	✓ P	✓ P	✓ P	✓ P	✓ P
Manila	-	-	✓ P	✓ P	✓ P	✓ P	✓ P	✓ P Deprecation notice

## MCP Release Compatibility Matrix

Networking ODL ML2 plugin	-	-	✓ P	✓ P	✓ P	✓ P	✓ P	✓ P
Neutron	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *
Nova	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *
Octavia	-	-	-	-	-	✓ P	✓ P	✓ P
Panko	-	-	✓ P	✓ P	✓ P	✓ P	✓ P	✓ P
Kubernetes	1.6, 1.7	1.7.5-2, 1.8.5-4 TechPr	1.8.11	1.10.4	1.10.4	1.11.3	1.12.4	1.13.6 Support termination notice
CNI-Genie	-	-	-	1.0-138	1.0-138	1.0-138	2.0-1	2.0-1
CNI plugins	-	-	-	0.7.1-48	0.7.1-48	0.7.1-48	0.7.2-151	0.7.2-173
CoreDNS	-	-	-	-	-	1.2.2-12	1.2.6-4	1.4.0
Dashboard	1.5.1	1.5.1	1.5.1	1.5.1	1.8.3	1.10.0-4	1.10.1-2	1.10.1-2
External DNS	0.5.3	0.5.3	0.5.3	0.5.3	0.5.3	0.5.6-2	0.5.9-3	0.5.11
Flannel	-	-	-	0.10.0-amd64	0.10.0-amd64	0.10.0-amd64	0.10.0-amd64	0.10.0-amd64
MetalLB	-	-	-	0.6.2	0.6.2	0.7.3-2	0.7.3-2	0.7.3-2
Metrics Server	-	-	-	-	-	-	0.3.1	0.3.1
NGINX Ingress controller	-	-	-	-	-	0.19.0-1	0.21.0-3	0.23.0
OpenStack cloud provider	-	-	-	-	-	-	0.3.0-1	0.3.0-1
Virtlet	0.8.2	0.9.3	1.0.0	1.1.2	1.1.2	1.4.1	1.4.4	1.5.0

## MCP Release Compatibility Matrix

OpenContrail networking	✓ OS O	✓ OS O	✓ OS O	✓ OS O, P	✓ OS, k8s	✓ k8s, OS O, P, TechPr for Queens	✓ OS O, P, Q	✓ OS O, P, Q
Cassandra	2.1.20	2.1.20	2.1.20 OC 3.2	2.2.12 OC 4.0  2.1.20 OC 3.2	2.2.12 OC 4.0  2.1.20 OC 3.2	2.2.12	2.2.12 OC 4.0  3.10 <sup>OC</sup> 4.1	2.2.12 OC 4.0  3.10 <sup>OC</sup> 4.1
Kafka	0.10.2.0	2.9.2-0.8.2.0-0contrail0	2.9.2-0.8.2.0-0contrail0 OC 3.2	2.11-0.9.0.1-0contrail1 OC 4.0  2.9.2-0.0contrail0 OC 3.2	2.11-0.9.0.1-0contrail1 OC 4.0  2.9.2-0.0contrail0 OC 3.2	2.11-0.9.0.1-0contrail1	2.11-0.9.0.1-0contrail1 OC 4.0  confluent-kafka-2.11 1.1.1-1 OC 4.1	2.11-0.9.0.1-0contrail1 OC 4.0  confluent-kafka-2.11 1.1.1-1 OC 4.1
OpenContrail	3.1.1.x OS O  3.2.3.x OS O	3.1.1.x OS O  3.2.3.x OS O	3.2.3.x OS O  3.2.10.0 OS O	3.2.11.0 OS O  4.0.4.0 OS P	3.2.11.0 OS O  4.0.4.0 OS P, k8s	4.0.4.0 k8s OS O, P, TechPr for Queens 1	4.0.4.0 OS P, Q 1  4.1.3.0 OS P, Q 1	4.1.4.0 OS P, Q
ZooKeeper	3.4.5	3.4.5	3.4.5 <sup>OC</sup> 3.2	3.4.8 <sup>OC</sup> 4.0  3.4.5 <sup>OC</sup> 3.2	3.4.8 <sup>OC</sup> 4.0  3.4.5 <sup>OC</sup> 3.2	3.4.8	3.4.8 <sup>OC</sup> 4.0  3.4.8-1 OC 4.1	3.4.8-1 OC 4.1
Calico networking <sup>k8s</sup>	✓	✓	✓	✓	✓	✓	✓	✓
Calico	2.3.0	2.6.1	2.6.1	2.6.10	2.6.10	3.1.3	3.3.1	3.3.1
Calico CNI	1.10.0	1.11.0	1.11.0	1.11.6	1.11.6	3.1.3	3.3.1	3.3.1
etcd	3.2.2	2.2.5	3.3.x	3.3.8	3.3.8	3.3.8	3.3.10	3.3.12
Ceph <sup>OS</sup>	Luminous, Jewel	Luminous	Luminous	Luminous	Luminous	Luminous 12.2.8	Luminous 12.2.8	<ul style="list-style-type: none"> <li>• Nautilus 14.2.22</li> <li>• Luminous 12.2.13</li> </ul>
RadosGW	✓	✓	✓	✓	✓	✓	✓	✓



MCP Release Compatibility Matrix

MCP underlay system components compatibility matrix

Component	Q3-2017	2017.12	2018.4.0	2018.8.0	2018.8.0-milestone1	2018.1.0	2019.2.0	2019.2.0 current release
containerd <sup>k8s</sup>	-	-	-	-	-	-	1.2.1-1~u16.04+mcp	1.2.5-2~u16.04+mcp
CRI Proxy <sup>k8s</sup>	0.9.4	0.9.4	0.10.0	0.11.1	0.11.1	0.12.0	0.14.0	0.14.0
etcd Operator <sup>k8s</sup>	-	-	-	-	-	0.9.2	0.9.3	0.9.3
Docker	1.13	1.3.1	17.12.x <sub>SL</sub> OC CI/CD, 1.12.6 <sup>k8s</sup>	docker-ce 18.03.1 <sub>SL</sub> OC CI/CD, docker-engine 1.13.1 <sup>k8s</sup>	docker-ce 18.03.1 <sub>SL</sub> OC CI/CD, docker-engine 1.13.1 <sup>k8s</sup>	docker-ce 18.06.1 <sub>SL</sub> OC CI/CD, docker-engine 1.13.1 <sup>k8s</sup>	docker-ce 5:18.09.0~3-0~ubuntu-xenial	docker-ce 5:18.09.0~3-0~ubuntu-xenial
Galera	25.3.10-1~u14.04+mcp1	25.3.14-1	25.3.14	25.3.14	25.3.14	25.3.14	25.3.14	25.3.37.binary-1~u16.04+mcp
Git	2.7.4-0ubuntu1	2.7.4	2.7.4	2.7.4	2.7.4	2.7.4	2.7.4	2.7.4
GlusterFS	3.7	3.8.15	3.8.15	3.8.15	3.8.15	3.8.15	3.8.15	5.5
HAProxy	1.6.3-1~u14.04+mcp1	1.6.3	1.6.3	1.6.3	1.6.3	1.6.3	1.6.3	1.6.3
libvirt	1.3.1	1.3.1	4.0.0-1.7~u16.04+mcp1	4.0.0-1.7~u16.04+mcp2	4.0.0-1.7~u16.04+mcp2	4.0.0-1.7~u16.04+mcp3	4.0.0-1.8.5~u16.04+mcp1	4.0.0-1.8.10~u16.04+mcp2

MCP Release Compatibility Matrix

MySQL	5.6.23	5.6.35	5.6.35	5.6.35	5.6.35	5.6.35	5.6.35-0.1~u16.04+mcp2	<ul style="list-style-type: none"> <li>• 5.7.43-1~u16.04</li> <li>• 5.7.39-1~u16.04 Optional</li> </ul>
NGINX	1.10.0-0ubuntu0.16.0	1.10.3	1.10.3	1.10.3	1.10.3	1.10.3	1.10.3	1.10.3
Open vSwitch	2.6	2.6.1	2.8.0-1~u16.04+mcp2	2.8.0-4~u16.04+mcp1	2.8.0-4~u16.04+mcp1	2.8.0-4~u16.04+mcp1	2.8.0-4~u16.04+mcp1	2.9.5-2~u16.04+mcp
QEMU	2.5	2.5	2.11+dfsg-1.1~u16.04+mcp1	2.11+dfsg-1.4~u16.04+mcp2	2.11+dfsg-1.4~u16.04+mcp2	2.11+dfsg-1.4~u16.04+mcp2	2.11+dfsg-1.4~u16.04+mcp2 Q, 2.11+dfsg-1.7.3~u16.04+mcp1 P	2.11+dfsg-1.7.39~u16.04+mcp1 Q, 2.11+dfsg-1.7.39~u16.04+mcp1 P
RabbitMQ	3.6.6-1~u14.04+mcp1	3.6.6-1~u14.04+mcp1	3.6.15-2~u16.04+mcp1	3.6.15-3~u16.04+mcp1	3.6.15-3~u16.04+mcp1	3.6.15-3~u16.04+mcp1	3.6.15-3~u16.04+mcp1	3.8.17-1~u16.04+mcp1
SR-IOV k8s	0.3-9	0.3-9	0.3-9	0.3-9	0.3-9	0.3-9	0.3-9	0.3-9
Ubuntu	16.04, 14.04 OC ntw&nal	16.04, 14.04 OC ntw&nal	16.04	16.04	16.04	16.04	16.04	16.04
Kernel	LTS 4.4.0.93.98, HWE 4.10.0.33.35	LTS 4.4.0.103.108, HWE 4.10.0.42.44	LTS 4.4.0.116	LTS 4.4.0.116	LTS 4.4.0.116	LTS 4.4.0.116 OS O, HWE 4.15.0.36	HWE 4.15.0.43.64 default, HWE 4.15.0.50.71 available	HWE 4.15.0.43.64 default, HWE 4.15.0.72.92 available

## Notations

\* - Available in all included OpenStack releases

O<sup>P</sup>, Q - Available only starting from the specified letter release of OpenStack

k8s - Kubernetes reference

OC - OpenContrail reference

OC<sup>ntw&nal</sup> - OpenContrail network and analytics nodes

OS - OpenStack standard reference

TechPr - Available as technical preview only

SL OC<sup>CI/CD</sup> - StackLight, OpenContrail, and CI/CD nodes

- 1(1, 2, 3)      OpenContrail 3.2.x is not supported for new deployments. OpenContrail 4.0 is deprecated and not supported for new deployments since MCP maintenance update 2019.2.4.
- 2                Added since the MCP maintenance update 2019.2.7.

## Supported upgrade paths

### Caution!

The upgrade and update procedures described in this section are available as technical preview. Use these procedures for testing and evaluation purposes only.

This section highlights the migration and upgrade paths that are supported for the MCP components with the links to corresponding procedures.

### Caution!

Before proceeding with any of the upgrade procedures, verify that you have updated DriveTrain including Aptly, Gerrit, Jenkins, Reclass, Salt formulas, and their subcomponents to the MCP release version that supports the version of the component you want to upgrade to. Otherwise, the related MCP product documentation cannot apply to your MCP deployment.

Supported upgrade paths

Component	From	To	Procedure
DriveTrain	Build ID 2018.11.0	Build ID 2019.2.0	<a href="#">MCP Operations Guide: Upgrade MCP to the Build ID 2019.2.0</a>
	Build ID below 2018.11.0	Build ID 2018.11.0	<a href="#">MCP Operations Guide: Upgrade MCP to the Build ID 2018.11.0</a> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Note If your MCP version is not tagged with a Build ID, contact Mirantis support for further details.</p> </div>
OpenStack	Ocata Pike	Pike Queens	<a href="#">MCP Operations Guide: Upgrade an MCP OpenStack environment</a>
Kubernetes	1.8 or 1.10	1.12	<a href="#">MCP Operations Guide: Update or upgrade Kubernetes</a>

## MCP Release Compatibility Matrix

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Calico	2.6	3.3	MCP Operations Guide: Automatically update or upgrade Kubernetes
OpenContrail	3.2	4.x	<p>MCP Operations Guide: Upgrade the OpenContrail nodes from version 3.2 to 4.x</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><b>Note</b>            To update OpenContrail from version 4.0 to 4.1, see: <a href="#">MCP Operations Guide: Update the OpenContrail 4.x nodes.</a></p> </div>
StackLight LMA	Build ID 2018.11.0	Build ID 2019.2.0	MCP Operations Guide: Upgrade StackLight LMA to Build ID 2019.2.0
	Build ID below 2018.11.0	Build ID 2018.11.0	MCP Operations Guide: Upgrade StackLight LMA to Build ID 2018.11.0