



# **Red Hat OpenStack Platform 10**

## **Firewall Rules for Red Hat OpenStack Platform**

List of required ports and protocols.



# Red Hat OpenStack Platform 10 Firewall Rules for Red Hat OpenStack Platform

---

List of required ports and protocols.

OpenStack Team  
rhos-docs@redhat.com

## Legal Notice

Copyright © 2017 Red Hat, Inc.

The text of and illustrations in this document are licensed by Red Hat under a Creative Commons Attribution–Share Alike 3.0 Unported license ("CC-BY-SA"). An explanation of CC-BY-SA is available at

<http://creativecommons.org/licenses/by-sa/3.0/>

. In accordance with CC-BY-SA, if you distribute this document or an adaptation of it, you must provide the URL for the original version.

Red Hat, as the licensor of this document, waives the right to enforce, and agrees not to assert, Section 4d of CC-BY-SA to the fullest extent permitted by applicable law.

Red Hat, Red Hat Enterprise Linux, the Shadowman logo, JBoss, OpenShift, Fedora, the Infinity logo, and RHCE are trademarks of Red Hat, Inc., registered in the United States and other countries.

Linux ® is the registered trademark of Linus Torvalds in the United States and other countries.

Java ® is a registered trademark of Oracle and/or its affiliates.

XFS ® is a trademark of Silicon Graphics International Corp. or its subsidiaries in the United States and/or other countries.

MySQL ® is a registered trademark of MySQL AB in the United States, the European Union and other countries.

Node.js ® is an official trademark of Joyent. Red Hat Software Collections is not formally related to or endorsed by the official Joyent Node.js open source or commercial project.

The OpenStack ® Word Mark and OpenStack logo are either registered trademarks/service marks or trademarks/service marks of the OpenStack Foundation, in the United States and other countries and are used with the OpenStack Foundation's permission. We are not affiliated with, endorsed or sponsored by the OpenStack Foundation, or the OpenStack community.

All other trademarks are the property of their respective owners.

## Abstract

This article describes the firewall rules created by the Red Hat OpenStack Platform director.

## Table of Contents

<b>1. FIREWALL RULES FOR RED HAT OPENSTACK PLATFORM .....</b>	<b>2</b>
1.1. Nova API	2
1.2. HAProxy	2
1.3. Glance Registry API	2
1.4. Ceilometer API	2
1.5. Keystone	3
1.6. Ironic Conductor	3
1.7. Nova Libvirt	3
1.8. RabbitMQ	3
1.9. Glance API	3
1.10. keepalived	4
1.11. Redis	4
1.12. MySQL Galera	4
1.13. MongoDB	4
1.14. NTP	5
1.15. Swift Storage	5
1.16. Ceph OSD	5
1.17. Neutron L3	5
1.18. Heat CloudFormation API service	5
1.19. Gnocchi API	6
1.20. Gnocchi Statsd	6
1.21. Neutron DHCP	6
1.22. Ceilometer SNMP	6
1.23. Heat API	6
1.24. Neutron OVS Agent	7
1.25. Swift Proxy	7
1.26. Heat AWS CloudWatch-compatible API	7
1.27. Memcached service	7
1.28. Ceph Monitor service	7
1.29. Ceph RadosGW service	8
1.30. Cinder API	8
1.31. Cinder Volume iSCSI Initiator	8
1.32. Ironic API	8
1.33. pacemaker	8
1.34. Sahara API	9
1.35. Neutron API	9
1.36. Horizon	9
1.37. AODH API	9
1.38. Manila API	9

## 1. FIREWALL RULES FOR RED HAT OPENSTACK PLATFORM

This article describes the firewall configuration created by the director on Red Hat OpenStack Platform 10. These ports are required for services running on the overcloud.

### 1.1. Nova API

Service	Protocol	Ports	Notes
nova	TCP	6080	Nova novnc Proxy
nova	TCP	13080	Nova novnc Proxy (SSL)
nova	TCP	8773	Nova EC2 API
nova	TCP	3773	Nova EC2 API (SSL)
nova	TCP	8774	Nova API
nova	TCP	13774	Nova API (SSL)
nova	TCP	8775	Nova Metadata

### 1.2. HAProxy

Service	Protocol	Ports	Notes
haproxy_stats	TCP	1993	

### 1.3. Glance Registry API

Service	Protocol	Ports	Notes
glance	TCP	9191	Glance Registry API

### 1.4. Ceilometer API

Service	Protocol	Ports	Notes
ceilometer	TCP	8777	Ceilometer API

Service	Protocol	Ports	Notes
ceilometer	TCP	13777	Ceilometer API (SSL)

## 1.5. Keystone

Service	Protocol	Ports	Notes
keystone	TCP	5000	Keystone Public API
keystone	TCP	13000	Keystone Public API (SSL)
keystone	TCP	35357	Keystone Admin API
keystone	TCP	13357	Keystone Admin API (SSL)

## 1.6. Ironic Conductor

Service	Protocol	Ports	Notes
TFTP	UDP	69	
HTTP	TCP	8088	

## 1.7. Nova Libvirt

Service	Protocol	Ports	Notes
nova_libvirt	TCP	16514	

## 1.8. RabbitMQ

Service	Protocol	Ports	Notes
rabbitmq	TCP	4369	Rabbitmq
rabbitmq	TCP	5672	Rabbitmq
rabbitmq	TCP	25672	Rabbitmq

## 1.9. Glance API

Service	Protocol	Ports	Notes
glance	TCP	9292	Glance API
glance	TCP	13292	Glance API (SSL)

## 1.10. keepalived

Service	Protocol	Ports	Notes
VRRP	VRRP		VRRP

## 1.11. Redis

Service	Protocol	Ports	Notes
redis	TCP	6379	Internal service coordination
redis	TCP	26379	

## 1.12. MySQL Galera

Service	Protocol	Ports	Notes
mysql_galera	TCP	873	MySQL
mysql_galera	TCP	3306	
mysql_galera	TCP	4444	
mysql_galera	TCP	4567	
mysql_galera	TCP	4568	
mysql_galera	TCP	9200	Galera-monitor

## 1.13. MongoDB

Service	Protocol	Ports	Notes
mongodb_config	TCP	27019	mongodb_config



Service	Protocol	Ports	Notes
mongodb_sharding	TCP	27018	mongodb_sharding
mongodb	TCP	27017	MongoDB

## 1.14. NTP

Service	Protocol	Ports	Notes
ntp	UDP	123	NTP

## 1.15. Swift Storage

Service	Protocol	Ports	Notes
swift	TCP	873	Rsync
swift	TCP	6000	Object Server
swift	TCP	6001	Container Server
swift	TCP	6002	Account Server

## 1.16. Ceph OSD

Service	Protocol	Ports	Notes
ceph	TCP	6800-7300	

## 1.17. Neutron L3

Service	Protocol	Ports	Notes
VRRP	VRRP		VRRP

## 1.18. Heat CloudFormation API service

Service	Protocol	Ports	Notes
---------	----------	-------	-------

Service	Protocol	Ports	Notes
heat	TCP	8000	Heat AWS CloudFormation-compatible API
heat	TCP	13800	Heat AWS CloudFormation-compatible API (SSL)

## 1.19. Gnocchi API

Service	Protocol	Ports	Notes
gnocchi	TCP	8041	Gnocchi API
gnocchi	TCP	13041	Gnocchi API (SSL)

## 1.20. Gnocchi Statsd

Service	Protocol	Ports	Notes
gnocchi_statsd	UDP	8125	Network daemon for statistics

## 1.21. Neutron DHCP

Service	Protocol	Ports	Notes
neutron_DHCP	UDP	67	Provisioning the Overcloud
neutron_DHCP	UDP	68	

## 1.22. Ceilometer SNMP

Service	Protocol	Ports	Notes
SNMP	UDP	161	Ceilometer

## 1.23. Heat API

Service	Protocol	Ports	Notes
heat	TCP	8004	Heat API Endpoint
heat	TCP	13004	Heat API Endpoint (SSL)

## 1.24. Neutron OVS Agent

Service	Protocol	Ports	Notes
neutron_vxlan	UDP	4789	VXLAN
neutron_vxlan	GRE	GRE	

## 1.25. Swift Proxy

Service	Protocol	Ports	Notes
swift	TCP	8080	Swift Proxy
swift	TCP	13808	Swift Proxy (SSL)

## 1.26. Heat AWS CloudWatch-compatible API

Service	Protocol	Ports	Notes
heat	TCP	8003	Heat AWS CloudWatch-compatible API
heat	TCP	13003	Heat AWS CloudWatch-compatible API (SSL)

## 1.27. Memcached service

Service	Protocol	Ports	Notes
memcached	TCP	11211	

## 1.28. Ceph Monitor service

Service	Protocol	Ports	Notes
ceph	TCP	6789	

## 1.29. Ceph RadosGW service

Service	Protocol	Ports	Notes
ceph_rgw	TCP	8080	Ceph RGW
ceph_rgw	TCP	13080	Ceph RGW (SSL)

## 1.30. Cinder API

Service	Protocol	Ports	Notes
cinder	TCP	8776	Cinder API
cinder	TCP	13776	Cinder API (SSL)

## 1.31. Cinder Volume iSCSI Initiator

Service	Protocol	Ports	Notes
iSCSI	TCP	3260	

## 1.32. Ironic API

Service	Protocol	Ports	Notes
ironic	TCP	6385	Ironic API
ironic	TCP	13385	Ironic API (SSL)

## 1.33. pacemaker

Service	Protocol	Ports	Notes
pacemaker	TCP	2224	
pacemaker	TCP	3121	

Service	Protocol	Ports	Notes
pacemaker	TCP	21064	
pacemaker	UDP	5405	

### 1.34. Sahara API

Service	Protocol	Ports	Notes
sahara	TCP	8386	Sahara API
sahara	TCP	13386	Sahara API (SSL)

### 1.35. Neutron API

Service	Protocol	Ports	Notes
neutron	TCP	9696	Neutron API
neutron	TCP	13696	Neutron API (SSL)

### 1.36. Horizon

Service	Protocol	Ports	Notes
horizon	TCP	80	Dashboard
horizon	TCP	443	Dashboard (SSL)

### 1.37. AODH API

Service	Protocol	Ports	Notes
aodh_api	TCP	8042	
aodh_api	TCP	13042	

### 1.38. Manila API

Service	Protocol	Ports	Notes
manila	TCP	8786	Manila API
manila	TCP	13786	Manila API