



Red Hat OpenStack Platform 17.1

Firewall Rules for Red Hat OpenStack Platform

List of required ports and protocols

Red Hat OpenStack Platform 17.1 Firewall Rules for Red Hat OpenStack Platform

List of required ports and protocols

OpenStack Team
rhos-docs@redhat.com

Legal Notice

Copyright © 2024 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, the Red Hat 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 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 document describes Red Hat OpenStack platform firewall rules and network flows.

Table of Contents

MAKING OPEN SOURCE MORE INCLUSIVE	3
PROVIDING FEEDBACK ON RED HAT DOCUMENTATION	4
CHAPTER 1. FIREWALL RULES FOR RED HAT OPENSTACK PLATFORM	5
1.1. USING THE RED HAT OPENSTACK NETWORK FLOW MATRIX	5

MAKING OPEN SOURCE MORE INCLUSIVE

Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. Because of the enormity of this endeavor, these changes will be implemented gradually over several upcoming releases. For more details, see [our CTO Chris Wright's message](#).

PROVIDING FEEDBACK ON RED HAT DOCUMENTATION

We appreciate your input on our documentation. Tell us how we can make it better.

Providing documentation feedback in Jira

Use the [Create Issue](#) form to provide feedback on the documentation. The Jira issue will be created in the Red Hat OpenStack Platform Jira project, where you can track the progress of your feedback.

1. Ensure that you are logged in to Jira. If you do not have a Jira account, create an account to submit feedback.
2. Click the following link to open a the **Create Issue** page: [Create Issue](#)
3. Complete the **Summary** and **Description** fields. In the **Description** field, include the documentation URL, chapter or section number, and a detailed description of the issue. Do not modify any other fields in the form.
4. Click **Create**.

CHAPTER 1. FIREWALL RULES FOR RED HAT OPENSTACK PLATFORM

This document includes a link to the Red Hat OpenStack Platform (RHOSP) network flow matrix. Use this information to help you define firewall rules.

The matrix lists RHOSP core services and their dependencies and describes the ports and protocols they use and the associated traffic flows. It includes the following columns:

Service

The OpenStack service.

Protocol

Transmission protocol.

Dest. Port

Destination port.

Source Object

Source of data.

Dest. Object

Destination of data.

Source/Dest Pairs

Valid source and destination pairs.

Dest. Network

Destination network.

ServiceNetMap Parent

Determines the network type used for each service.

Traffic Description

Notes about the traffic flow.

1.1. USING THE RED HAT OPENSTACK NETWORK FLOW MATRIX

The network flow matrix is a comma separated values (CSV) file that describes flows to and from Red Hat OpenStack Platform (RHOSP) services.

**NOTE**

The network flow matrix describes common traffic flows. It does not describe every possible service and flow. Some flows that are not described in this matrix might be critical to operation.

For example, if you block all traffic and then selectively open only the flows described here, you might unintentionally block a necessary flow. That could cause issues that are difficult to troubleshoot.

Procedure

1. Use the following link to download the matrix:
[Red Hat OpenStack Network Flows](#).

For example, right click the link and choose **Save link as**.

2. Ensure that the downloaded file has the .csv filename extension. For example, if it is **.txt**, change it to **.csv**.
3. Use the information in the file to help you formulate firewall rules. You can open it in a spreadsheet application that accepts **.csv** files, or access it with your own program.