Firewall Rules for Red Hat OpenStack Platform

List of required ports and protocols

Last Updated: 2023-11-07
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Abstract

This document describes Red Hat OpenStack platform firewall rules and network flows.
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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.