

防火墙即服务 (FWaaS) v1场景

[« \(fwaas-v2-scenario.html\)](#) | [» \(misc-libvirt.html\)](#) | [\(https://bugs.launchpad.net/neutron/+filebug?field.title=Firewall-as-a-Service%20\(FWaaS\)%20v1%20scenario%20in%20Neutron&field.comment=%0A%0A%0AThis bug tracker is for errors with the documentation, use the following as a template and remove or add fields as you see fit. Convert \[\] into \[x\] to check boxes:%0A%0A- \[\] This doc is inaccurate in this way: ____%0A- \[\] This is a doc addition request.%0A- \[\] I have a fix to the document that I can paste below including example: input and output. %0A%0AIf you have a troubleshooting or support issue, use the following resources:%0A%0A - Ask OpenStack: http://ask.openstack.org%0A - The mailing list: http://lists.openstack.org%0A - IRC: 'openstack' channel on Freenode%0A%0A-----%0ARelease:%202012.0.1.dev11%20on%202018-03-07%2021:05%0ASHA:%2043df2709acbdce86686a40b75fd34e96880427d0%0ASource:%20https://git.openstack.org/cgit/openstack/neutron/tree/doc/source/admin/fwaas-v1-scenario.rst%0AURL: https://docs.openstack.org/neutron/queens/admin/fwaas-v1-scenario.html&field.tags=doc\)](https://bugs.launchpad.net/neutron/+filebug?field.title=Firewall-as-a-Service%20(FWaaS)%20v1%20scenario%20in%20Neutron&field.comment=%0A%0A%0AThis%20bug%20tracker%20is%20for%20errors%20with%20the%20documentation%2C%20use%20the%20following%20as%20a%20template%20and%20remove%20or%20add%20fields%20as%20you%20see%20fit.%20Convert%20%5B%5D%20into%20%5Bx%5D%20to%20check%20boxes%3A%0A%0A-%20%5B%5D%20This%20doc%20is%20inaccurate%20in%20this%20way%3A%20_____%0A-%20%5B%5D%20This%20is%20a%20doc%20addition%20request.%0A-%20%5B%5D%20I%20have%20a%20fix%20to%20the%20document%20that%20I%20can%20paste%20below%20including%20example%3A%20input%20and%20output.%0A%0AIf%20you%20have%20a%20troubleshooting%20or%20support%20issue%2C%20use%20the%20following%20resources%3A%0A%0A-%20Ask%20OpenStack%3A%20http%3A%2F%2Fask.openstack.org%0A-%20The%20mailing%20list%3A%20http%3A%2F%2Flists.openstack.org%0A-%20IRC%3A%20'openstack'%20channel%20on%20Freenode%0A%0A-----%0ARelease%3A%202012.0.1.dev11%20on%202018-03-07%2021:05%0ASHA%3A%2043df2709acbdce86686a40b75fd34e96880427d0%0ASource%3A%20https%3A%2F%2Fgit.openstack.org%2Fcg%2Fopenstack%2Fneutron%2Ftree%2Fdoc%2Fsource%2Fadmin%2Ffwaas-v1-scenario.rst%0AURL%3A%20https%3A%2F%2Fdocs.openstack.org%2Fneutron%2Fqueens%2Fadmin%2Ffwaas-v1-scenario.html&field.tags=doc)

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启用FWaaS V1

仪表板中也提供FWaaS管理选项。

1. 在`/etc/neutron/neutron.conf`文件中启用FWaaS插件：

```
service_plugins = 防火墙

[service_providers]
#...
service_provider = FIREWALL: iptables: neutron.agent.linux.iptables_firewall.OVSHybridIptablesFirewallDriver: default

[fwaas]
driver = neutron_fwaas.services.firewall.drivers.linux.iptables_fwaas.IptablesFwaasDriver
enabled = True
```

注意

在Ubuntu上，修改文件中的`[fwaas]`部分 `/etc/neutron/fwaas_driver.ini`而不是 `/etc/neutron/neutron.conf`。

2. 配置L3代理的FWaaS插件。

在该AGENT部分中`l3_agent.ini`，确保已加载FWaaS扩展：

```
[AGENT]
extensions = fwaas
```

编辑`/etc/neutron/neutron.conf`文件中的FWaaS部分以指示代理版本和驱动程序：

```
[fwaas]
agent_version = v1
驱动程序 = iptables
enabled = True
conntrack_driver = conntrack
```

3. 在数据库中创建所需的表格：

```
# neutron-db-manage --subproject neutron-fwaas 升级主管
```

4. 在`local_settings.py`文件中启用通常位于控制器节点上的选项：

```
OPENSTACK_NEUTRON_NETWORK = {
    #...
    'enable_firewall' = True ,
    #...
}
```

注意

默认情况下，`enable_firewall`选项值`True`在 `local_settings.py`文件中。

通过重新启动Web服务器来应用设置。

5. 重新启动`neutron-l3-agent`和`neutron-server`服务以应用设置。

配置Firewall-as-a-Service v1

创建防火墙规则并创建一个包含它们的策略。然后，创建一个应用策略的防火墙。

1. 创建一个防火墙规则：

```
$ neutron firewall-rule-create --protocol { tcp, udp, icmp, any } \
--source-ip-address SOURCE_IP_ADDRESS \
--destination-ip-address DESTINATION_IP_ADDRESS \
--source-port SOURCE_PORT_RANGE --destination-port DEST_PORT_RANGE \ -
操作{允许, 拒绝, 拒绝}
```

网络客户端需要一个协议值。如果规则与协议无关，则可以使用该any值。

❗ 注意

当源或目标IP地址不是相同的IP版本（例如IPv6）时，该命令会返回错误。

2. 创建防火墙策略：

```
$ neutron firewall-policy-create --firewall-rules \
"FIREWALL_RULE_IDS_OR_NAMES" myfirewallpolicy
```

用空格分隔防火墙规则ID或名称。您指定规则的顺序很重要。

您可以在没有任何规则的情况下创建防火墙策略并稍后添加规则，如下所示：

- 要添加多个规则，请使用更新操作。
- 要添加单个规则，请使用插入规则操作。

有关更多详细信息，请参阅 OpenStack命令行界面参考中的[联网命令行客户端 \(https://docs.openstack.org/cli-reference/neutron.html\)](https://docs.openstack.org/cli-reference/neutron.html)。

❗ 注意

FWaaS总是在每个策略的最低优先级上添加默认规则。因此，没有规则的防火墙策略默认会阻止所有流量。**deny all**

3. 创建一个防火墙：

```
$ neutron firewall - 创建FIREWALL_POLICY_UUID
```

❗ 注意

防火墙保持PENDING_CREATE状态，直到您创建一个Networking路由器并将接口连接到它。

« (fwaas-v2-scenario.html) » (misc-libvirt.html) 🐛 (https://bugs.launchpad.net/neutron/+filebug?field.title=Firewall-as-a-Service%20(FWaaS)%20v1%20scenario%20in%20Neutron&field.comment=%0A%0A%0AThis bug tracker is for errors with the documentation, use the following as a template and remove or add fields as you see fit. Convert [] into [x] to check boxes:%0A%0A- [] This doc is inaccurate in this way: ____%0A- [] This is a doc addition request.%0A- [] I have a fix to the document that I can paste below including example: input and output. %0A%0AIf you have a troubleshooting or support issue, use the following resources:%0A%0A - Ask OpenStack: http://ask.openstack.org%0A - The mailing list: http://lists.openstack.org%0A - IRC: 'openstack' channel on Freenode%0A%0A-----%0ARelease:%2012.0.1.dev11%20on%202018-03-07%2021:05%0ASHA:%2043df2709acbdce86686a40b75fd34e96880427d0%0ASource:%20https://git.openstack.org/cgiit/openstack/neutron/tree/doc/source/admin/fwaas-v1-scenario.rst%0AUURL: https://docs.openstack.org/neutron/queens/admin/fwaas-v1-scenario.html&field.tags=doc)

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❓ 问题吗？(HTTP://ASK.OPENSTACK.ORG)



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- 有助于 (<http://docs.openstack.org/infra/manual/developers.html>)

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