# 介绍

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更新日期: 2018-03-07 21:05

OpenStack网络服务(neutron)提供了一个API,允许用户设置和定义云中的网络连接和寻址。网络服务的项目代码名称是neutron。OpenStack Networking负责创建和管理虚拟网络基础架构,包括由OpenStack Compute服务(nova)管理的设备的网络,交换机,子网和路由器。高级服务,如防火墙或虚拟专用网络(VPN)也可以使用。

OpenStack Networking由neutron-server,用于永久存储的数据库和任意数量的插件代理组成,它们提供其他服务,例如与本机Linux网络机制,外部设备或SDN控制器的接口。

OpenStack Networking完全独立,可以部署到专用主机。如果您的部署使用控制器主机运行集中式Compute组件,则可以将网络服务器部署到该特定主机。

OpenStack Networking与各种OpenStack组件集成在一起:

- OpenStack身份认证服务(keystone)用于API请求的认证和授权。
- OpenStack计算服务 (nova) 用于将虚拟机上的每个虚拟网卡插入特定网络。
- 管理员和项目用户使用OpenStack Dashboard (horizon)通过基于Web的图形界面创建和管理网络服务。

#### ❷ 注意

本指南中使用的网络地址范围根据RFC 5737 (https://tools.ietf.org/rfc/rfc5737)和 RFC 3849 (https://tools.ietf.org/html/rfc3849)进行选择, 因此仅限于以下内容:

#### IPv4的:

- 192.0.2.0/24
- 198.51.100.0/24
- 203.0.113.0/24

### IPv6的:

• 2001 : DB8 :: / 32

本指南示例中的网络地址范围不应用于除文档之外的任何用途。

#### ❷ 注意

为了减少混乱,本指南删除与特定操作无关的命令输出。

- 基本网络 (intro-basic-networking.html)
  - <u>以太网络 (intro-basic-networking.html#ethernet)</u>
  - <u>VLAN的 (intro-basic-networking.html#vlans)</u>
  - <u>子网和ARP (intro-basic-networking.html#subnets-and-arp)</u>
  - DHCP (intro-basic-networking.html#dhcp)
  - IP (intro-basic-networking.html#ip)
  - TCP / UDP / ICMP (intro-basic-networking.html#tcp-udp-icmp)
- 网络组件 (intro-network-components.html)
  - <u>开关 (intro-network-components.html#switches)</u>
  - o <u>路由器 (intro-network-components.html#routers)</u>
  - o 防火墙 (intro-network-components.html#firewalls)
  - o 负载平衡器 (intro-network-components.html#load-balancers)
- <u>覆盖(隧道)协议 (intro-overlay-protocols.html)</u>
  - o 通用路由封装(GRE)(intro-overlay-protocols.html#generic-routing-encapsulation-gre)
  - 虚拟可扩展局域网(VXLAN) (intro-overlay-protocols.html#virtual-extensible-local-area-network-vxlan)
- 网络命名空间 (intro-network-namespaces.html)
  - o <u>Linux网络命名空间 (intro-network-namespaces.html#linux-network-namespaces)</u>
  - o 虚拟路由和转发(VRF)(intro-network-namespaces.html#virtual-routing-and-forwarding-vrf)
- 网络地址解读 (intro-nat.html)
  - SNAT (intro-nat.html#snat)
  - DNAT (intro-nat.html#dnat)
  - <u>¬对</u>—NAT (intro-nat.html#one-to-one-nat)
- OpenStack网络 (intro-os-networking.html)
  - 概念 (intro-os-networking.html#concepts)
  - 服务和组件层次结构 (intro-os-networking.html#service-and-component-hierarchy)
- <u>防火墙即服务(FWaaS)(fwaas.html)</u>
  - o FWaaS v1 (fwaas.html#fwaas-v1)
  - FWaaS v2 (fwaas.html#fwaas-v2)
  - FWaaS v1与v2 (fwaas.html#fwaas-v1-versus-v2)

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更新日期:2018	-03-07 21:05	https://docs.openstack.org/neutron/queens/admin/intro.html&field.tags=doc)
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命令行界面	ī参考 (/cli/index.html)	

### OpenStack的

- 项目 (http://openstack.org/projects/)
- OpenStack安全 (http://openstack.org/projects/openstack-security/)

中子特征分类 (../feature\_classification/index.html)

贡献者指南 (../contributor/index.html)

- 常见问题 (http://openstack.org/projects/openstack-faq/)
- 博客 (http://openstack.org/blog/)
- 新闻 (http://openstack.org/news/)

## 社区

- 用户组 (http://openstack.org/community/)
- 活动 (http://openstack.org/community/events/)
- 工作 (http://openstack.org/community/jobs/)
- 公司 (http://openstack.org/foundation/companies/)
- 有助于 (http://docs.openstack.org/infra/manual/developers.html)

### 文档

- OpenStack手册 (http://docs.openstack.org)
- 入门 (http://openstack.org/software/start/)
- API文档 (http://developer.openstack.org)