

控制器[¶]

控制器节点运行身份服务，映像服务，计算的管理部分，网络的管理部分，各种网络代理和仪表板。它还包括支持服务，如SQL数据库，消息队列和网络时间协议（NTP）。

Optionally, the controller node runs portions of the Block Storage, Object Storage, Orchestration, and Telemetry services.

The controller node requires a minimum of two network interfaces.

Compute[¶]

The compute node runs the hypervisor portion of Compute that operates instances. By default, Compute uses the kernel-based VM (KVM) hypervisor. The compute node also runs a Networking service agent that connects instances to virtual networks and provides firewalling services to instances via security groups.

You can deploy more than one compute node. Each node requires a minimum of two network interfaces.

Block Storage[¶]

The optional Block Storage node contains the disks that the Block Storage and Shared File System services provision for instances.

For simplicity, service traffic between compute nodes and this node uses the management network. Production environments should implement a separate storage network to increase performance and security.

You can deploy more than one block storage node. Each node requires a minimum of one network interface.

Object Storage[¶]

The optional Object Storage node contain the disks that the Object Storage service uses for storing accounts, containers, and objects.

For simplicity, service traffic between compute nodes and this node uses the management network. Production environments should implement a separate storage network to increase performance and security.

This service requires two nodes. Each node requires a minimum of one network interface. You can deploy more than two object storage nodes.

Networking[¶]

Choose one of the following virtual networking options.

Networking Option 1: Provider networks[¶]

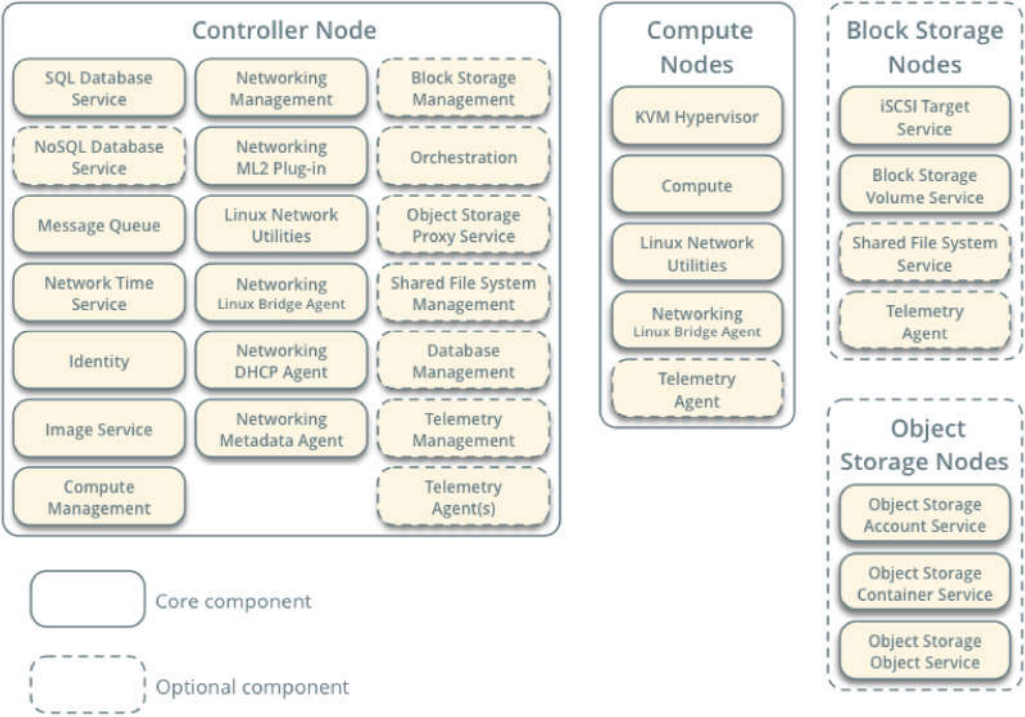
The provider networks option deploys the OpenStack Networking service in the simplest way possible with primarily layer-2 (bridging/switching) services and VLAN segmentation of networks. Essentially, it bridges virtual networks to physical networks and relies on physical network infrastructure for layer-3 (routing) services. Additionally, a DHCP<Dynamic Host Configuration Protocol (DHCP) service provides IP address information to instances.

The OpenStack user requires more information about the underlying network infrastructure to create a virtual network to exactly match the infrastructure.

Warning

This option lacks support for self-service (private) networks, layer-3 (routing) services, and advanced services such as Load-Balancer-as-a-Service (LBaaS) and FireWall-as-a-Service (FWaaS). Consider the self-service networks option below if you desire these features.

Networking Option 1: Provider Networks
Service Layout

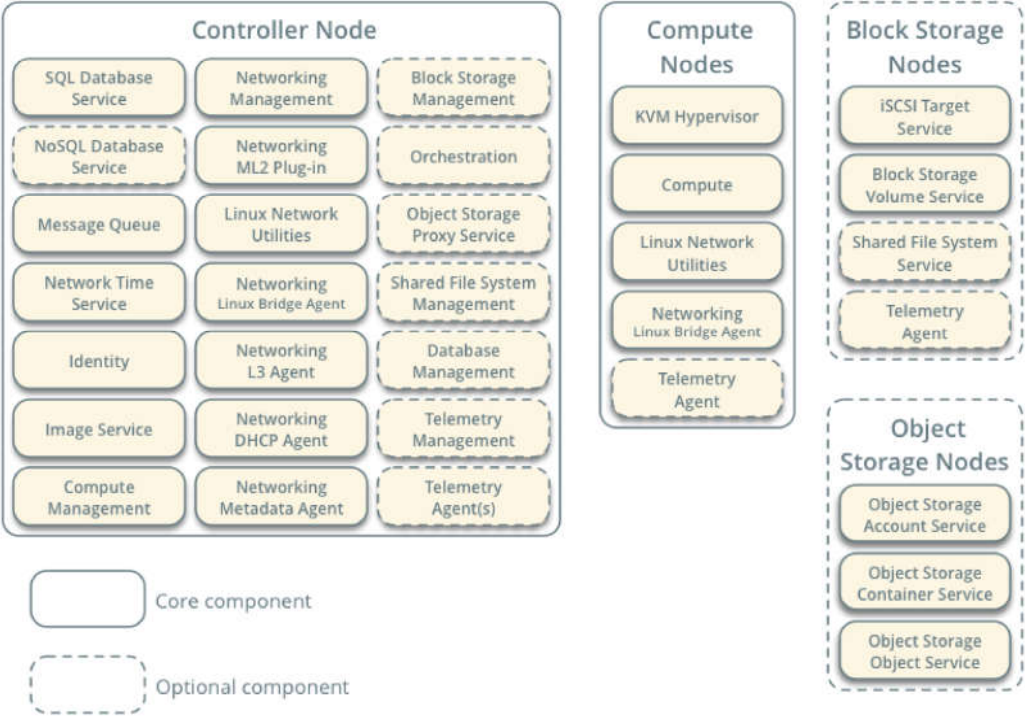


Networking Option 2: Self-service networks

The self-service networks option augments the provider networks option with layer-3 (routing) services that enable self-service networks using overlay segmentation methods such as Virtual Extensible LAN (VXLAN). Essentially, it routes virtual networks to physical networks using Network Address Translation (NAT). Additionally, this option provides the foundation for advanced services such as LBaaS and FWaaS.

OpenStack用户可以在不了解数据网络底层基础设施的情况下创建虚拟网络。如果相应地配置了第2层插件，这也可以包括VLAN网络。

Networking Option 2: Self-Service Networks
Service Layout




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❓ 问题吗？ ([HTTP://ASK.OPENSTACK.ORG](http://ask.openstack.org))



OpenStack文档

Neutron 12.0.1

../index.html

安装指南 (index.html)

概观

网络服务概述 (common/get-started-networking.html)

网络（中子）概念 (concepts.html)

安装并配置openSUSE和SUSE Linux Enterprise (install-obs.html)

为红帽企业Linux和CentOS安装和配置 (install-rdo.html)

为Ubuntu安装和配置 (install-ubuntu.html)

OpenStack网络指南 (../admin/index.html)

中子配置选项 (../configuration/index.html)

命令行界面参考 (../cli/index.html)

中子特征分类 (../feature_classification/index.html)

贡献者指南 (../contributor/index.html)

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网络选项2：自助服务网络

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