



Networking in OpenStack using Neutron WBT H4S71AAE

This web-based training course will take students through an in depth look at the OpenStack Network service Neutron. The result will be the skills to design and build a scalable extensible network within an OpenStack environment.

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| HPE course number | H4S71AAE |
| Course length | 1 hour |
| Delivery mode | WBT |
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Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training*
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Audience

- Network Administrators
- Network Architects
- Solution Architects
- Sales Engineers
- Technical Marketing Staff
- OpenStack Administrators
- OpenStack Architects

Prerequisites

Have a good grasp on networking fundamentals:

- TCP/IP
- Ethernet
- Routing, Firewalls etc

And attendance of the following courses, or possessing equivalent skills:

- Fundamentals of OpenStack Technology (H6C68S)
- Linux Fundamentals (U8583S)
- HPE Cloud Overview (HK917AAE)

Course objectives

At the conclusion of the course, you should be able to:

- Understand the OpenStack networking components and how they work together
- Understand the architecture and extensibility of an OpenStack based network

Benefits to you

- Gain an understanding of OpenStack networking using Neutron

Detailed course outline

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| Module 1: Course overview | <ul style="list-style-type: none">• Set out the course objectives |
| Module 2: Overview of an OpenStack network based on Neutron | <ul style="list-style-type: none">• Architecture<ul style="list-style-type: none">– Neutron Components– Different network types and purposes• Implementation Scenarios<ul style="list-style-type: none">– Single tenant– Multi-tenant |
| Module 3: Installation and configuration of Neutron components | <ul style="list-style-type: none">• Installing the controller components• Installing the network node components• Installing the compute node components• Using the OpenStack Dashboard Horizon to manage networking |
| Module 4: Some other technologies used by Neutron | <ul style="list-style-type: none">• Using plugins to extend the network• Software Defined Networking primer<ul style="list-style-type: none">– OpenDaylight overview• Discuss the ML2 plugin• Look at Open vSwitch and OpenFlow |
| Module 5: Layer 3 services | <ul style="list-style-type: none">• DHCP• NAT• Floating IP addresses |
| Module 6: High Availability and scale | <ul style="list-style-type: none">• Building resilient into a Neutron based OpenStack network<ul style="list-style-type: none">– Service resilience– DHCP resilience– Network resilience |
| Module 7: Troubleshooting Neutron based networks | <ul style="list-style-type: none">• Tools available• Techniques to employ |

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