Hewlett Packard Enterprise

Delta course for Fundamentals of OpenStack Technology H8Q18S

This half-day course will bring administrators and users of the OpenStack® up to speed with Kilo release for April 2015. Course addresses at the high level new features, changes and improvements across all key OpenStack® components.

HPE course number	H8Q18S
Course length	4 hours
Delivery mode	ILT
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Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training*
- Recognized by IDC for leading with global coverage, unmatched technical expertise, and targeted education consulting services*
- Key partnerships with industry leaders OpenStack®, VMware®, Linux®, Microsoft®, ITIL, PMI, CSA, and (ISC)[2]
- Complete continuum of training delivery options—self-paced eLearning, custom education consulting, traditional classroom, video on-demand instruction, live virtual instructor-led with hands-on lab, dedicated onsite training
- Simplified purchase option with HPE Training Credits

Audience

- System Administrators, engineers and consultants who need to understand the key new features introduced in Kilo

Prerequisites

Attendance of, or the equivalent skills

- Fundamentals of OpenStack® Technology (H6C68S)

Course objectives

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

- Describe major differences between OpenStack® Kilo and Juno releases
- Discuss new features in Kilo release
- Understand the implication of changed and new features on OpenStack® configuration and administration

Benefits to you

- Get up to speed with new features of OpenStack® Kilo release
- Understand how changes will impact your current OpenStack® deployment
- Plan migration from legacy (Juno) to current (Kilo) OpenStack® release

Detailed course outline

Module 1: Neutron—What is new in Kilo	• What is done for Neutron in Kilo release? • Nova L2 and L3 Agent Refactoring in Kilo • Advanced Neutron Services Split in Kilo • Neutron security and reliability improvements • IPv6 support in Kilo • Multiple IPv6 Prefixes and Addresses • IPv6 Prefix Delegation • IPv6 Router in OpenStack® • Subnet allocation • New plugins supported in Kilo • Floating IP address and MTU in Kilo • DVR support for VLANs • ML2: Hierarchical Port Binding
Module 2: Keystone—What is new in Kilo	• Keystone priorities for Kilo release • Keystone Continued Stability and Functionality • Keystone Federated Identity • Hierarchical Multitenancy in Keystone • Other improvements in Keystone Kilo release • Keystone tokens • Keystone LDAP and Authorization
Module 3: Glance—What is new in Kilo	• New Glance functionality in Kilo • Image Introspection and Conversion
Module 4: Nova—What is new in Kilo	• Nova news in Kilo • Kilo Hyper-V support • Kilo libvirt (KVM) I/O (PCIe) based NUMA scheduling • Virt driver pinning guest vCPUs to host pCPUs • Virt driver large page allocation for guest RAM • Support for QEMU built-in iSCSI initiator • QEMU snapshot support • Kilo VMware support • Nova various changes
Module 5: Swift—What is new in Kilo	• What is new for Swift in Kilo release • Swift Erasure Codes • Object Storage Encryption: Volume Encryption • Object Storage Encryption: Ephemeral Disk Encryption • Fast POST and Efficiency Improvements • Cinder: What is new in Kilo • Cinder news in Kilo release • HP 3PAR StoreServ support in Kilo • HP 3PAR retype implementation in Kilo
Module 6: Trove—What's new in Kilo	• Significant updates to Trove in Kilo release: Neutron support, Replication, Clustering, Configuration Groups Enhancements

Module 7: Heat—What's new in Kilo	• Configuration option to enable Convergence • Decouple Nested Stacks from parents • Pausing the Stack • Multi Region Support for Heat
Module 8: Ceilometer—What's new in Kilo	• OpenStack Telemetry in Kilo • Richer Configuration of Tenant/Role Segregation
Module 9: Ironic—What's new in Kilo	• Ironic—bare metal deployment • Images and Local Booting • New Ironic Operations • Hardware Inspection • Various changes to Ironic in Kilo release
Module 10: Sahara—What's new in Kilo	• Sahara news in Kilo Release • MapR Distribution Plugins • Sahara Plugins in Kilo • Various changes to Sahara in Kilo release

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