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The Linux Administration Certification training program helps the delegates to become a Linux Admin Expert. The delegates will be introduced to various concepts on administration methods in Linux. Linux servers are being used by major internet sites such as Google and Facebook. Linux is growing so quickly. Therefore, the demand for Linux professionals is increasing rapidly. During the training program, the delegates will explore the networking concepts, Kernel services, file system management, Linux configuration and essential tools for handling files and directories. The course enables the delegates to configure file system attributes, deploy and maintain software installation and manage security including basic firewall and SELinux configuration. By the completion of the course, the delegates will be able to configure local storage using Logical Volume Manager, manage users and groups, Network (Kickstart) installation of Linux systems and create and configure file systems & partitions.

Prerequisites

No specific prerequisites are required for attending the course. However, some familiarity to IT world would be beneficial.

Course Objectives

- Understand Installation and Initialisation
- Important Files and Directories, Services, Utilities
- Advanced File System Management
- Process monitoring and Package management
- Server Configurations
- File System Security and Management
- Shell Scripting and Kerberos
- Database Configuration
- User Administration
- Configuring SMB Service, SMTP service and Virtualization
- Kickstart Installation, IPv6 configuration

Module 1: What is OpenStack?

- Conceptual and Logical Architecture
- OpenStack Services

Module 2: Introduction to Identity Management

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Module 3: Working with Dashboard

- Customising and Configuring the Dashboard
- Creating and Managing Roles
- Managing Instances, Volumes, and Volume Types
- Viewing and Managing Quotas

Module 4: OpenStack Compute Service

- System Architecture
- Images and Instances
- System Administration

Module 5: Object Storage

- Introduction to Object Storage
- Components of Object Storage
- Ring-Builder
- Cluster Architecture
- Replication
- Monitoring Object Storage

Module 6: Block Storage

- Boot from Volume
- Configure Multiple-Storage Back Ends
- Migrate Volumes
- Back Up and Restore Volumes and Snapshots
- Consistency Groups

Module 7: Shared File Systems

- Introduction to Shared File Systems
- Share Management
- Share Types
- Share Replication
- Multi-Storage Configuration

Module 8: introduction to Networking

- Networking Architecture
- Plug-in Configurations
- Configure Neutron Agents
- Configure Identity Service for Networking

Module 9: Telemetry Service

- System Architecture
- Data Collection and Data Retrieval
- Alarms, Measurements, and Events

Module 10: Database

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Module 11: Overview of Bare Metal

- System Architecture
- Bare Metal Deployment

Module 12: Orchestration

- Orchestration Authorisation Model
- Stack Domain Users

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