

Linux Course

Content

Module-1: Introduction to Linux

- Overview of Operating System
- Types of Operating Systems
- History of Unix / Linux
- Advantages of Unix / Linux
- Linux Distributions
- Difference b/w RHEL, Centos and Fedora, Debian, Ubuntu, etc.
- Windows vs. Linux

Module-2: Virtual Machine Setup (Manual)

- Overview of VM
- Installing Chocolate Package Manager
- Installing Oracle Virtual Box Manager
- Downloading the CentOS Disk Image
- VM setup with CentOS
- Downloading the Ubuntu Disk Image
- VM setup with Ubuntu
- Start VM
- Stop VM

- VM Disc Space Details
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Module-3: Virtual Machine Setup (Automation)

- Overview of Vagrant
- Vagrant Architecture
- Vagrant Use cases
- Vagrant Installation
- Vagrant Boxes
- Vagrant Files
- Providers
- Automate VM Setup using Vagrant
- Vagrant IP, RAM and CPU
- Vagrant Sync Directories
- Provisioning
- Multi VM Vagrant file setup
- Vagrant Share
- Vagrant up
- Vagrant SSH

Module-4: SSH Client Installation

- SSH Overview
- Downloading and installing MobXterm
- Connecting to VM from Mobaxterm using SSH

Module-5: Linux Concepts

- Introduction to Linux
- Directories and File Systems
- File Types
- Commands like mkdir, cp,mv,touch and more
- vim editor
- Filters
- Redirections
- Users and Groups
- Permissions: sudo
- Package Management
- Services
- Process
- Archiving

Module-6: Shelling Scripting

- Overview of Shell Scripting
 - Variables
 - System Variables
 - Command line arguments
 - User Input
 - Decision making
 - Monitoring Script
 - Loops, while Loops
 - Remote Command Execution
 - SSH Key Exchange
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