
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

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