Complete Linux Training Course to Get Your Dream IT Job

-- Syllabus --

Module 1 – Understanding Linux Concepts
- What is Linux?
- Everyday use of Linux
- Unix vs. Linux
- Quiz, Homework and Handouts

Module 2 – Download, Install and Configure
- What is Oracle Virtual Box?
- Downloading and Installing Oracle Virtual Box
- Creating virtual machine
- Linux Distributions
- Different way to install Linux
- Downloading and Installing Linux (CentOS)
- Redhat Linux installation (Optional)
- Linux Desktop (GUI)
- Virtual Machine Management
- Linux vs. Windows
- Who Uses Linux?
- Quiz, Homework and Handouts

Module 3 – System Access and File System
- Accessing Linux system
- Download and install Putty
- New Network Commands (ifconfig and ip)
- Connect Linux VM via Putty
- Important Things to Remember in Linux
- Introduction to File System
- File system structure description
- File system navigation commands
- File System Paths
- Directory listing overview
- Creating Files and Directories
- Linux File Types
- Finding Files and Directories (find, locate)
- Difference between find and locate command
- Changing Password
- Wildcard (*, $, ^)
- Soft and Hard Links (ln)
- How to open image file through GUI
- Quiz, Homework and Handouts

Module 4 – Linux Fundamentals
- Commands Syntax
- File Permissions *(chmod)*
- File Ownership *(chown, chgrp)*
- Getting Help *(man, whatis etc.)*
- TAB completion and up arrow keys
- Adding text to file
- Standard output to a file (tee command)
- Pipes *(|)*
- File Maintenance Commands
- File Display Commands
- Filters / Text Processing Commands *(cut, sort, grep, awk, uniq, wc)*
- Compare Files *(diff, cmp)*
- Compress and un-compress files/directories *(tar, gzip, gunzip)*
- Truncate file size (truncate)
- Combining and Splitting Files *(cat and split)*
- Linux vs. Windows Commands
- Quiz, Homework and Handouts

Module 5 – Linux System Administration
- Linux File Editors *(vi text editor)*
- "sed" command
- User account management
- Switch users and Sudo access
- Monitor users
- Talking to users *(users, wall, write)*
- Linux Directory Service - Account Authentication
- System utility commands *(date, uptime, hostname, which, cal, bc etc.)*
- Processes and schedules *(systemctl, ps, top, kill, crontab and at)*
- System Monitoring Commands *(top, df, dmesg, iostat 1, netstat, free etc.)*
- OS Maintenance Commands *(shutdown, reboot, halt, init etc.)*
- System logs monitor *(/var/log)*
- Changing System Hostname *(hostnamectl)*
- Finding System Information *(uname, cat /etc/redhat-release, cat /etc/*rel*, dmidecode)*
- System Architecture *(arch)*
- Terminal control keys
- Terminal Commands *(clear, exit, script)*
- Recover root Password *(single user mode)*
- SOS Report
- Environment variables
- Quiz, Homework and Handouts

Module 6 – Shell Scripting
- Linux Kernel
- What is a Shell?
- Types of Shells

- Shell scripting
- Basic Shell scripts
- If-then scripts
- For loop scripts
- Do-while scripts
- Case statement scripts
- Aliases
- Command **history**

Module 7 – Networking, Servers and System Updates
- Enabling internet in Linux VM
- Network Components
- Network files and commands *(ping, ifconfig, netstat, tcpdump, networking config files)*
- NIC Information *(ethtool)*
- NIC or port bonding
- Download files with URLs *(wget)*
- curl and ping commands
- File transfer commands *(ftp, scp etc.)*
- System updates and repositories *(rpm and yum)*
- System Upgrade/Patch Management
- Create Local Repository from CD/DVD
- Advance Package Management
- Rollback Patches and Updates
- SSH and Telnet
- DNS
- Hostname and IP Lookup *(nslookup and dig)*
- NTP
- chronyd
- Sendmail
- Apache Web Server *(http)*
- Central Logger *(rsyslogd)*
- Securing Linux Machine (OS Hardening)
- OpenLDAP Installation
- Tracing Network Traffic (traceroute)
- Quiz, Homework and Handouts

Module 8 – Disk Management and Run Levels
- System run levels
- Linux Boot Process
- Message of the Day
- Customize Message of the Day
- Storage
- Disk partition *(df, fdisk, etc.)*
- Add Disk and Create Standard Partition
- Logical Volume Management (LVM)
- LVM Configuration during Installation

- Add Disk and Create LVM Partition
- Extend disk using LVM
- Adding swap space
- RAID
- File System Check (fsck and xfs_repair)
- System Backup (dd Command)
- Network File System (NFS)
- Difference Between CentOS/Redhat 5, 6 and 7
- Quiz, Homework and Handouts

Module 9 – All About Resume
- Resume workshop
- Cover Letter
- Linux job description or duties
- Exposure to other technologies
- Homework and Handouts

Module 10 – All About Interview
- What is IT?
- IT Components
- Facts about IT
- Linux around us
- Linux Operating System Jobs
- IT Management Jobs
- Post resume and what to expect
- Interview workshop
- Redhat certifications
- Join Linux community
- 200+ interview questions
- Homework and handouts

Course Recap
- Commands We Have Learned
- Don't give up
- Congratulations
- Recap – Handouts

Additional Resources
- VMWare Workstation Player (Optional)
- Create VMWare VM
- Install Oracle Virtualbox on MAC
- Install Oracle Guest Addition (Tools)
- Troubleshooting Putty Connection
- Changing Default File Permissions (umask)

- Filesystem Color Definition
- Additional Resources – Handout

Bonus
- My Facebook Page
- Coupons to My Other Courses