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Course: Red Hat

Duration: 40 Hrs (Changeable) | Fees: Individual / Batch

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Our Courses/Internship

- Python/Django Fullstack
- Artificial Intelligence
- Machine Learning
- Data Science
- Software Testing (All)
- Wordpress, Woocommerce
- Digital Marketing, SEO
- Php/MySQL, Laravel
- Flutter, Android, IOS
- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
- CCNA, MCSA, CCNP
- AWS, GCP, Azure
- Odoo, Salesforce, Sap
- Microsoft Excel
- Ethical Hacking



Syllabus on the Next Page ..



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MODULE 1

- * Basic system configuration
- * Getting started
- * The basic configuration of the environment
- * Configuring and inspecting network access
- * The basics of registering the system and managing subscription
- * Installing software

SELinux, and **SShd** system services start at boot time enhancing system security with a firewall,

- * The basics of managing the user account
- * Dumping the crashed kernel using the KDUMP mechanism
- * Performing system reuse and creating g backup with rear
- * Using the log files to troubleshoot problems
- * Accessing red hat support


MODULE 2


- * System locale and keyboard configuration
- * Setting the system locale
- * Changing the keyboard layout
- * Additional resources

MODULE 3

- * Configuring the date and time
- * Using the time DATECTL command
- * Using the date command
- * Using the hwclock command

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MODULE 4

- * Managing users and groups
- * Introduction to users and groups
- * Using command-line tools

MODULE 5

- * Access control lists
- * Mounting file systems
- * NFS
- * Setting access ACLS
- * Setting default ACLs
- * Retrieving ACLS
- * Archiving file systems with ACLS
- * Compatibility with older systems
- * ACL references


MODULE 6


- * Gaining privileges
- * Configuring administrative access using the SU utility
- * Configuring administrative access using the SUDO utility

MODULE 7

- * Registering the system and managing subscriptions
- * Registering the system and attaching subscriptions
- * Managing software repositories

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- * Removing subscriptions

MODULE 8

- * Accessing support using the red hat support tool
- * Installing the red hat support tool
- * Registering the red hat support tool using the command line
- * Using the red hat support tool in interactive shell mode
- * Configuring the red hat support tool
- * Opening and updating support cases using interactive mode
- * Viewing support cases on the command line

MODULE 9

- * Yum
- * Checking for and updating packages
- * Working with packages
- * Working with package groups
- * Working with transaction history
- * Configuring yum and yum repositories
- * Yum plug-ins
- * Automatically refreshing package database and downloading updates with yum-cron

MODULE 10

- * Managing server with system
- * Introduction to systems
- * Managing system services

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- * Working with systems targets
- * Shutting down, suspending, and hibernating the system
- * Controlling system on a remote machine
- * Creating and modifying system unit files
- * Additional considerations while managing services

MODULE 11

- * Configuring a system for accessibility
- * Configuring the bratty service
- * Switch on always show universal access menu
- * Enabling the festival speech synthesis system

MODULE 12

- * Open SSH
- * The SSH protocol
- * Configuring Open SSH
- * Open SSH clients
- * More than a secure shell

MODULE 13

- * Tiger VNC
- * VNC server
- * Sharing an existing desktop
- * VNC viewer

MODULE 14

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- * Web servers
- * The Apache HTTP server

MODULE 15

- * Mail servers
- * Email protocols
- * Email program classifications
- * Mail transport agents
- * Mail delivery agents
- * Mail user agents
- * Configuring mail server with ant spam and antivirus

MODULE 16

- * Files and print servers
- * Samba
- * Ftp
- * Print settings

MODULE 17

- * Database servers
- * Maria dB

MODULE 18

- * Configuring NTP Using the chrony Suite
- * Introduction to the chrony suite
- * Understanding chronic and its configuration

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- * Using chrony
- * Setting up chrony for different environments
- * Using chroniconic
- * Chrony with hw time stamping

MODULE 19

- * Configuring NTP Using NTPD
- * Introduction to NTP
- * NTP strata
- * Understanding NTP
- * Understanding the drift file
- * Utc, timezones, and DST
- * Authentication options for NTP
- * Managing the time on virtual machines
- * Understanding leap seconds
- * Understanding the NTPD configuration file
- * Understanding the NTPD sysconfig file
- * Disabling chroniconic
- * Checking if the NTP daemon is installed
- * Installing the NTP daemon (NTPD)
- * Checking the status of NTP
- * Configure the firewall to allow incoming NTP packets
- * Configure NTP date servers

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- * Configure NTP
- * Configuring the hardware clock update
- * Configuring clock sources


MODULE 20


- * Configuring PTP using ptp4l
- * Introduction to PTP
- * Using PTP
- * Using PTP with multiple interfaces
- * Specifying a configuration file
- * Using the PTP management client
- * Synchronizing the clocks
- * Verifying time synchronization
- * Serving PTP Time with NTP
- * Serving NTP time with PTP
- * Synchronize to PTP or NTP time using time master
- * Improving accuracy

MODULE 21

- * System monitoring tools
- * Viewing system processes
- * Viewing memory usage
- * Viewing block devices and file systems
- * Viewing hardware information

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- * Checking for hardware errors
- * Monitoring performance with net-SNMP


MODULE 22


- * Open NLMI
- * About open NLMI
- * Installing open NLMI
- * Configuring SSL certificates for open Pegasus
- * Using Imishell
- * Using open NLMI scripts

MODULE 23

- * Viewing and managing log files
- * Locating log files
- * The basic configuration of rsyslog
- * Using the new configuration format
- * Working with queues in rsyslog
- * Configuring Syslog on a logging server
- * Using rsyslog modules
- * Interaction of rsyslog and journal
- * Structured logging with Syslog
- * Debugging rsyslog
- * Using the journal
- * Managing log files in a graphical environment

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MODULE 24

- * Automating system tasks
- * Scheduling a recurring job using cron
- * Scheduling a recurring asynchronous job using anacron
- * Scheduling a job to run at a specific time using at
- * Scheduling a job to run on system load drop using batch
- * Scheduling a job to run on the next boot using a systemd unit file

MODULE 25

- * Automatic bug reporting tools
- * Introduction to ABRT
- * Installing ABRT and starting its services
- * Configuring ABRT
- * Detecting software problems
- * Handling detected problems

MODULE 26

- * Working with grub2
- * Introduction to grub 2
- * Configuring grub 2
- * Making temporary changes to a grub 2 menu
- * Making persistent changes to a grub 2 menu using the grubby tool
- * Customizing the grub 2 configuration file
- * Protecting grub 2 with a password

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- * Reinstalling grub 2
- * Upgrading from grub-legacy to grub 2
- * Grub 2 over a serial console
- * Terminal menu editing during boot
- * Unified extensible firmware interface (UEFI) secure boot

MODULE 27

- * Relax and recover
- * Basic rear usage
- * Integrating rear with backup software

MODULE 28


- * Choosing a suitable red hat product

MODULE 29

- * Red hat customer portal labs relevant to system administration
- * Iscsi Helper
- * NTP Configuration
- * Samba Configuration Helper
- * VNC Configurator
- * Bridge Configuration
- * Network Bonding Helper
- * LVM RAID Calculator
- * NFS Helper
- * Load Balancer Configuration Tool

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- * Yum Repository Configuration Helper
- * File System Layout Calculator
- * RHEL Backup and Restore Assistant
- * DNS Helper
- * AD Integration Helper (Samba FS - winbind)
- * Red Hat Enterprise Linux Upgrade Helper
- * Registration Assistant
- * Rescue Mode Assistant
- * Kernel Oops Analyzer
- * Kdump Helper
- * SCSI decoder
- * Red Hat Memory Analyzer
- * Multipath Helper
- * Multipath Configuration Visualizer
- * Red Hat I/O Usage Visualizer
- * Storage / LVM configuration viewer

(Click on Course for more details)

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- Thank You -

N.B: This syllabus is not final and can be customized as per requirements / updates.

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