Redhat Linux

Duration - 2   Month

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- ✧ **Introduction of linux operating system**
  - RHCSA exam   Information
  - RHCE   exam   Information
  - Information   about   Red hat linux
    - ✓ Linux History
    - ✓ Difference Between Linux and unix
    - ✓ Difference Between LInux and window
    - ✓ Features   of linux os
    - ✓ Different   Type of   Linux   os
  - Basic hardware Requirement
    - ✓ Hardware Compatibility
    - ✓ Archtecture
    - ✓ RAM   Requirements
    - ✓ Hard Drive options
    - ✓ Networking
    - ✓ Virtual machine option
  - Installation   option
    - ✓ Boot   Media
    - ✓ CD/DVD or Boot USB Starts Installation
    - ✓ Basic   Installation   Steps
    - ✓ Partition Creation   Exercise

- ✧ **Virtual machine and Automated Installation**
  - KVM   Virtual   machine   configuring
  - Control Virtual machine Through command Line
  - Automated installation option
  - Set up local access   to Kickstart
  - Set up Network   access to Kickstart
  - Installation Through   ftp and Vnc server

- ✧ **Fundamental   Command Line Skill**
  - Root superuser
  - User and group

- File and   directories
- All Basic Command
- Linux   File system   Archtecture
- All   init Level
- Break Root Password
- Editting and saving file process

- ✧ **The   Boot   Process**
  - The BIOS and UEFI
  - MBR, KERNAL , GRUB   INIT RUNLEVEL
  - Intilization and runlevel process
  - GRUB Security and Password Protection
  - The first Process and Run level
  - Switch Between Run Level
  - Kernal panic   error

- ✧ **Network configuration Process**
  - IP Address   subnet mask configuration
    - ✓ Gui configuration
    - ✓ Command line configuration
  - ipv4 and ipv6 address .
  - Remote Network connection
  - Network configuration and Troubleshooting
    - ✓ Network configuration file and command
    - ✓ THE /etc/sysconfig/network-scripts Files/etc/sysctl.conf   file configuration
    - ✓ Modify Network Interface
    - ✓ Network configuration Tools

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- ✓ Hostname configuration files
- ✓ Hostname configuration option
- Time synchronization

✧ **Linux Partition and file system administration**
- Storage management and Partition
  - ✓ current system   state
  - ✓ The fdisk Utility
  - ✓ The parted Utility
  - ✓ The Graphics option
  - ✓ df and du utility
- Creating ,Formatting and Mounting partition
- Creating ,Formating and Mounting swap
  - ✓ io/etc/proc file system
  - ✓ Creating swap patitn
  - ✓ Swap file
- Quota   management
- Logical Volume manager
  - ✓ Defination
  - ✓ Creating physical volume group
  - ✓ Creating volume Group
  - ✓ Creating a Ligical volume
  - ✓ Decrease and Increase The size of   Lvm
  - ✓ Removing   LVM
  - ✓ GUI Logical Volume management   Tool
- The /etc/fsatb file
- File system create Format
  - ✓ ext2,ext3,ext4,xfs,jfs,nfs,fat,cifs,nfs file
  - ✓ Identify Linux file system
  - ✓ Journaling file system
  - ✓ Creating and converting file system

✧ **RHCSA-level   Security   option**
- Basic   File   Permission
  - ✓ File permission   and Ownership
  - ✓ Basic User   Group Concept
  - ✓ The Unmask
  - ✓ Command to change Permission and Owner

- Access control   list and More .
- REDHAT Firewall   IPTABLES
- Security   enhanced linux configuration
- Secure terminal in linux
- No Root   login   configuration

✧ **Advance Linux administration**
- File and directories compression
- Crontab configuration
- Sudo configuration
- Sftp and rsync   service
- Chkconfig and process management command
- Find,locate,grep and sort command
- Alias and chatter command .
- System log file managemente

✧ **LInux package management**
- Red hat package installation
  - ✓ What is package
  - ✓ What is repository
  - ✓ Install an rpm package
  - ✓ Uninstall an rpm package
  - ✓ More rpm command
- Yum server configuration and dependency
  - ✓ Create own yum repository
- Yum server management command

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