

Aparna Web Services

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Linux Server Installation, Management and Administration course

This will be a completely hands on course

Course content

1. Why Linux? What are the opportunities in linux? Who uses Linux?
2. How does a Linux system boot?
 - a. Boot loader
 - b. Important files that are accessed during boot time
 - c. Modifying the system boot behavior
 - d. File system details
 - e. Importance of Individual directories in the root(/)
 - f. Kernel
 - g. Initrd
3. Linux server installation
 - a. Installation planning considerations
 - b. Installation hard disk planning
 - c. Software planning
 - d. Actual installation
4. Linux file systems
5. Absolute paths and relative paths
 - a. File system permissions
 - b. File system related basic commands
6. Linux Network configuration
 - a. Configuration of an interface

- b. Starting and stopping an interface
- c. Routers configuration
- d. Assigning multiple addresses to a single network interface

7. User management

- a. Adding users
- b. Removing users
- c. Adding groups
- d. Removing groups
- e. Making users members of various groups
- f. Modifying users
- g. User permissions
- h. User password setting and resetting
- i. Sharing files between users

8. Linux server services

- a. General service concepts and commands
 - i. Start
 - ii. Stop
 - iii. Restart
 - iv. Reload
 - v. status
- b. FTP
 - i. Configuring ftp
 - ii. FTP service directories
 - iii. Starting and stopping ftp service
 - iv. Granting / denying access to ftp service
 - v. Public FTP shares
- c. HTTP
 - i. Configuring HTTP service
 - ii. HTTP service directories
 - iii. Making user's home directory as a HTTP directory
 - iv. Permissions of the user's home directory
- d. Telnet
 - i. Configuring the telnet service
 - ii. Introduction to xinetd service
 - iii. Starting and stopping xinetd service
- e. XRDP service

- i. Configuring the XRDP service
- ii. Uses of XRDP service
- iii. Starting and stopping the xrdp service

f. MySQL / MariaDB service

- i. Configuring the MySQL service
- ii. Setting the admin password for the service
- iii. Adding database users and databases to the server
- iv. Granting revoking permissions to users
- v. Connecting to the database server over network and over the localhost

g. NFS Service

- i. Configuring the directories to be exported
- ii. Setting permissions on the directories to be exported
- iii. Sharing the directories using NFS
- iv. Commands related to mounting and unmounting of the NFS file systems

9. Installation new Packages

- a. Yum
- b. Compiling of new software to be installed
- c. Updating the Linux server system

10. Basic shell scripting

- a. Simple statements
- b. Arithmetic calculations
- c. For loop
- d. If, and if else
- e. While loop
- f. Use of shell scripts to create / delete / modify a large number of users

11. Taking backup of server

- a. Manual Backup
- b. Automated backup
- c. Backing up the database server
- d. Restoring backups of the server directories
- e. Restoring the database

12. Connecting to the server

- a. Telnet
- b. Ssh
- c. Ssh with graphics mode enabled
- d. Through rdp

13. Setting up Linux, Solaris and Windows interconnectivity in different ways