

UNIX_Admin_Course_Details

1. Linux basic concepts & installations

- Installation in Standalone Machine
- Installation through NFS
- Installation through FTP
- Installation through HTTP
- Installation through KICKSTART

2. File System Management

- Creation of File Systems
- Understanding EXT2, EXT3& EXT4 File Systems
- Converting Ext2 to Ext3 file systems
- Reverting back from Ext3 to Ext2 files systems
- Understanding fdisk,e2label, mount, umount commands
- Understanding fstab and mtab files
- TROUBLESHOOTING

3. User management:

- Understanding different types of groups and creation of groups
- Creation of users in different groups
- Understanding Passwd, Shadow Files
- Understanding passwd aging
- Creation of quotas for users, groups and file systems
- Understanding users security files
- The different commands for Monitoring the users
- TROUBLESHOOTING

4. Run levels:

- Understanding the different types of run-levels
- Understanding different types of shutdown commands
- Understanding run control scripts
- Understanding the different types

5. Network file system (NFS):

- Understanding NFS server and NFS clients
- Understanding daemons and files in NFS of boot phases
- Configuring NFS server and different NFS clients
- Configuration of autofs, NFS security

6. File transfer protocol

- Understanding the features and advantages of FTP server
- Configuring FTP server and FTP clients
- Configuring FTP server for anonymous and real users with download and upload permissions
- Configuring FTP user access, FTP security
- Understanding FTP Basic Commands
- Configuring of anonymous FTP Server

7. XINETD

- Understanding xinetd based and non xinetd based services
- Configuring xinetd based services
- Xinetd security

8. TCP WRAPPER

- Understanding TCP WRAPPER
- Configuring TCP WRAPPER for services

9. Domain naming service

- Understanding DNS service and different types of DNS servers
- Configuring DNS (master) DNS (Slave)
- Understanding & Configuring forward (DNS) and cache (DNS) of boot phases
- Understanding different types of files when the system is booting
- TROUBLESHOOTING

10. Logical volume manager (LVM):

- Creation of file systems and converting into LVM
- Creation of physical partitions
- Creation of volume groups
- Creation of logical partitions
- Extending the volume group
- Extending the logical partitions

11. Package Manager (RPM)

- Understanding the features and advantages of RPM
- Installation of RPM packages
- Upgradation of RPM
- Verification of RPM

- Querying, TROUBLE SHOOTING

12. Backup and recovery

- Understanding different types of file system backup
- Understanding different types of files backups
- Understanding different types of file system backups
- Understanding different types of dump levels
- Understanding monthly, weekly, daily backups
- Different types of backup strategies

13. Automation of jobs:

- At Jobs . Cron Jobs

14. Network information service:

- Understanding NIS and daemons at NIS (Server, Slave and Clients)
- Configuring NIS (master), NIS (slave) and NIS clients in heterogeneous environments
- Integrating NIS (master and slave) with NFS Server

15. Dynamic host configuration protocol:

- Understanding DHCP
- Configuring DHCP server for different DHCP clients

16. APACHE:

- Understanding APACHE
- Configuring APACHE web server with virtual hosting
- Configuring APACHE web server with IP BASED, HOST BASED and PORT BASED
- Configuring member logins for APACHE web server

17. SAMBA:

- Understanding the features and advantages of SAMBA server
- Configuring SAMBA for heterogeneous environment
- Sharing the resources between unix to unix using SAMBA
- Sharing the resources between windows to unix (vice-versa)
- SAMBA security

18. SQUID:

- Understanding SQUID proxy
- Configuring SQUID proxy with ACL

19. Raid levels:

- Understanding RAID LEVELS
- Configuring different types of RAID LEVELS (0,1and5)