

IBM AIX Training in Hyderabad

1. Basics

- File system of UNIX
- Architecture of UNIX
- Creating, removing, copying, moving files & directories
- Using files and directories
- Wildcard characters
- Input/Output-Redirections
- File/Directory permissions
- Vi-Editor
- Usage of filter commands

2. AIX introduction

- Introduction to AIX
- Introduction P-Series P4, P5, P6 and P7 hardware features
- AIX 6.1 vs AIX 5.3
- Upgradation from version 5.3 to 6.1*
- Evolution of AIX servers and AIX OS
- Using SMIT, WSM, SYSTEM DIRECTORY (System Management Interface Tool)
- AIX on blade servers

3. AIX ON BLADES Devices

- Object Data Manager(ODM)
- Device Terminology
- Device states
- Configuring the devices
- Self configuring devices
- Solving Real time issues related to devices
- Solving device related questionnaire
- Change of media speed on Ethernet adapter

4. Logical Volume Manager

- Benefits of LVM
- Logical Volume Manager Components
- Physical storage
- Logical storage
- RAID levels
- MWC (Active , Passive)
- Read & Write policies
- Volume groups
- Uses of logical volumes
- BCV Clone on AIX
- LVM questionnaire include real time issues related to LVM

5. File systems

- Explanation of types of File systems in real time usage.
- Creation of file system
- Creation of RAW File system as per the Database/Application
- Creation and enable of LARGE file system for Database
- Mounting of File system on different directories
- Troubleshooting of corrupted file system

6. Paging space

- What is paging space?
- Using paging space
- Changing paging space
- Importance of paging space
- Importance of LRUD process

- Real time issues with paging space
- 7. Security and User Administration**
 - User accounts
 - Groups
 - Security logs
 - Security files
 - Changing ownerships
 - Changing ownership of a bulk files and directories*
 - Role Based Access Control (RBAC)
 - Login sequence
 - Regaining root's password
 - Real time discussion on admin task and different users like Sapadm, oradba, db2dba
 - Daily management in real time*
 - Realtime naming conventions for the creation of admin users/normal users(SAP ADM,ORA DBA,APPLIFE etc....)
 - Procedure to send dumps and log a call to IBM for RCA
 - Discussion on primary and secondary dump devices
- 8. Scheduling**
 - Cron
 - At
 - batch
 - Real time discussions on jobs performed through cron & related issues
- 9. AIX installation**
- 10. Using new and overwrite method***
- 11. Preservation method***
- 12. migration method***
- 13. Firmware upgradation procedure***
- 14. Problem determination**
 - The errpt command
 - The system error log
 - Starting and stopping error log
 - Diagnostics, what is diag, what is diag cd & its usage in real time
- 15. Backup and restore**
 - Mksysb backup-rootvg
 - Savevg backup for datavg
 - Performing mksysb like real time through NFS
 - Altvg backup and different methods for alt disk
 - Mirroring rootvg
 - SAN boot
 - Multibos
 - Real time discussions on backups
- 16. Networking**
 - What is TCP/IP
 - Configuring TCP/IP
 - DNS
 - Taking host information before reboot
 - What is DNS
 - Why DNS
- 17. Ether channel, configuring ether channel (NIB and link aggregation)**
 - Real time networking issues with AIX
 - Configuring router between two networks
 - Discussion on task related for AIX admin in TCP/IP
- 18. Network File Sharing (NFS)**

- Configuring NFS server
 - Exporting NFS directories
 - Mounting an NFS directory at client
 - Discussion of real time scenarios, troubleshooting on NFS
 - Using rpcinfo, nfsstat, nfsthread
 - Starting and stopping of NFS services
- 19. AIX LPAR Standalone booting procedure**
- The boot process
 - Important LED codes
 - Boot phases
 - System initialization
- 20. Software installation**
- Patching definitions
 - Software installation and maintenance
 - Software states
 - Life cycle of TL, downloading TL from fix central
- 21. NFS usage in TL upgrade**
- TL-8, TL-9
 - Issues during TL upgrade
- 22. Real time tools**
- Installing SSH
 - Generating SSH keys, enabling SSH in different hosts for password less login for ROOT
 - SCP, SFTP, RSYNC, SUDO, BASH
 - Usage DSH, DCP in real time.
- 23. Performing tuning**
- Issues with CPU
 - Issues with memory
 - Issues with I/O
 - Real time Perf issue discussion, running perfpmr.Sh on AIX
- 24. Real Time monitoring Tools:**
- Filemon, Netmon, Svmmon, Nmon, Analyser, Tcpdump, Lparstat, Mpstat, vmstat, iostat, sar
 - Configuring nmon analyser to generate, report
 - Usage of ganglia in reports Printers
 - Types of printer in AIX
 - AIX and system V print sub system
 - Configuring HP Network
 - Various troubleshooting methods
- 25. Storage usage in AIX**
- Discussing EMC Storage in AIX
 - Configuring Powerpath, Integrating of Clarions LUNS in AIX*
 - Real time issues related with storage in AIX
- 26. Discussions of VIRTUALISATION**
- How to create LPAR
 - How to reboot LPAR
 - Increasing memory, CPU, Adapters on LPARs dynamically
 - DEPLOYMENT OF BACKUP CLIENT AGENTS ON AIX(TSM,SYMANTEC NETBACKUP,etc
- 27. Using of AMM**
- HOW TO SHUTDOWN ,REBOOT BLADES through AMM
 - How to create LPAR through HMC
 - Shutting down LPAR through HMC
- 28. WPAR**
- Its usage in industry
 - Creating WPAR & using WPAR

- How to create a file system in WPAR
- Discussions on real time scenarios around 100 real time tickets.
- Configuring ground works monitoring agent
- Resume preparation for AIX

