

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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AIX System Administration

Introduction to AIX

- Overview of AIX operating system
- History and evolution of AIX
- Features and advantages of AIX compared to other UNIX/Linux systems

AIX Installation and Configuration

- System requirements and hardware compatibility
- Installation methods (installation media, network installation)
- Post-installation tasks and initial system setup

AIX File Systems and Storage Management

- Understanding AIX file system concepts (JFS, JFS2, GPFS)
- Creating and managing file systems (mkfs, mount, umount)
- Logical Volume Manager (LVM) configuration and management

User and Group Administration

- Managing users and groups (useradd, usermod, userdel)
- Role-based access control (RBAC) and permissions
- Password management and security policies

AIX System Management

- System startup and shutdown procedures
- Managing system resources (CPU, memory, disk I/O)
- Monitoring system performance (vmstat, iostat, topas)

Networking in AIX

- Configuring network interfaces (ifconfig, entstat)
- TCP/IP networking fundamentals
- Network troubleshooting and diagnostics (ping, traceroute, netstat)

Backup and Recovery

- Backup strategies and tools (smitty, backup)
- Restoring files and system from backup (restore)
- AIX system backups and disaster recovery planning

AIX Security

- Securing AIX systems (permissions, access control)
- Configuring firewall and network security (iptables)
- Implementing user authentication and encryption (ssh, Kerberos)

AIX Patch Management and Software Installation

- Applying AIX updates and patches (installp)
- Software package management (rpm, yum)
- Managing software dependencies and libraries

Virtualization in AIX

- Introduction to AIX virtualization technologies (PowerVM)
- Creating and managing virtualized environments (LPARs)

- Resource allocation and performance tuning for virtual machines

High Availability and Clustering

- Configuring high availability solutions (HACMP/PowerHA)
- Implementing failover and load balancing

System Monitoring and Logging

- AIX system monitoring tools (nmon, sar)
- Analyzing system logs (errpt, syslog)
- Performance tuning and optimization techniques

Shell Scripting and Automation

- Introduction to AIX shell scripting (ksh, bash)
- Automating system administration tasks
- Creating and scheduling cron jobs

Backup and Recovery Strategies

- Implementing backup policies and schedules
- Disaster recovery planning and testing
- Backup verification and monitoring

Compliance and Security

- Implementing security best practices (auditing, logging)
- Compliance with industry standards (PCI DSS, HIPAA)
- Incident response and handling security breaches

Advanced AIX Topics

- Performance tuning and optimization
- Kernel customization and tuning
- Troubleshooting complex issues (dump analysis, system hangs)

AIX Networking

- TCP/IP configuration and troubleshooting
- DNS, DHCP, and LDAP integration
- Network file sharing (NFS) and SAMBA configuration

Managing AIX in Enterprise Environments

- Scaling AIX systems for enterprise applications
- Integration with enterprise storage solutions (SAN/NAS)
- Managing AIX in cloud environments (AIX on Power Systems Cloud)

Emerging Technologies and Trends

- AIX in hybrid cloud and container environments
- Integration with DevOps and automation tools
- Future developments and roadmap for AIX

Professional Development and Certification

- Training resources and certification programs
- Continuing education and skills enhancement
- Career opportunities for AIX system administrators