

HANDS_ON

Systems Administration / servers

Package Description

Systems administration involves installing, configuring, supporting and maintaining servers these may be running under different platforms i.e. windows and Linux .as an admin you supposed to monitor servers for CPU load, memory usage, system uptime and also carry out some capacity planning. Basically ensure there is no unforeseen failure of the servers. Trainees are exposed to the following;

- Setting benchmarks in server performance
- Trend analysis and capacity planning
- Managing system inventory
- Preparation of RCA(root cause analysis) reports
- Server checklists for routine maintenance.

Module 1: Windows Server® 2012 and 2016 administration

- Operating System Overview
- Installing and Upgrading Servers
- Migrating to Windows Server 2016
- Adding and configuring server roles and Features
- Building and Populating the Active Directory
- Active Directory Domain Services (AD DS)
- Constructing Domain Controllers
- Organizational Units, users and groups
- Troubleshooting site topologies and replication failures.
- Introducing PowerShell for administrative Tasks

- Monitoring performance and ensuring reliability
- Implementing File System Security
- Managing disks, full backup and restore
- Securing files with Access Control Lists
- Controlling Network Components and Services
- Managing network settings
- Sharing resources across the network
- File Server Resource Manager (FSRM)
- Administering the Active Directory
- Distributing and delegating administrative power
- Configuring environments with Group Policies
- Creating synergy with enterprise Technologies
- Deploying Remote Desktop Services (RDS)

Module 2: Installing and Managing Exchange Server 2010 and 2013

- Introduction to Exchange Server 2013
- Preparing the server and Active Directory environment
- Performing the installation
- Performing an intra-organizational migration
- Migrating to Exchange Server 2013
- Building an Exchange Organization
- Managing Recipient Objects
- Establishing mailboxes
- Creating mail-enabled objects
- Configuring Email Retrieval Methods
- Investigating features of Outlook
- Administering the Mailbox role
- Managing the Client Access role
- Troubleshooting the Exchange infrastructure

- Optimizing performance

Module 3 (Server management and monitoring)

- Server management and monitoring tools.
- Remote system administration.
- Monitoring of logs and alerts.
- Scheduling activities like server reboots, backups etc
- Managing server disks/storage
- Configuration and administrating DNS, DHCP, file & Print server and DFS servers
- Setting up and configuring RAIDS (RAID 0+1, RAID 1, RAID 5)

Module 4 (Server Virtualization)

- Installation of the Virtualization platform (VMware) on servers
- Managing VMware infrastructure

ii) Administrating systems under the Linux platform.

- Server Installation and configuration
- Creation, deletion and modification of accounts
- Monitoring concurrent Logins / connections
- Monitor Disk space, Processor Utilization, Network Utilization related to server
- Package installation
- Sudo configuration
- File system administration
- Analysis of log files
- Patch management (update / Preview/ Rollback)
- Operating system Hardening

Package duration: 4 weeks

Price: UGX 400,000