

SERVER ADMINISTRATION

Course Overview

This Server Administration course provides hands-on skills required to manage, secure, and maintain Windows and Linux servers in enterprise environments.

Target Audience

- 1 • IT Support & Helpdesk professionals
- 2 • Junior System Administrators
- 3 • Network Engineers
- 4 • Anyone aiming for System / Server Admin roles

Course Index

Module 1 – Server Fundamentals & Architecture

Module 2 – Windows Server Administration

Module 3 – Linux Server Administration

Module 4 – Virtualization & Storage

Module 5 – Backup, Monitoring & Security

Module 6 – Automation & Scripting

Module 7 – Final Project



Module 1 – Server Fundamentals & Architecture

- 1 • Server types & roles
- 2 • Hardware vs Virtual servers
- 3 • Server performance concepts

Module 2 – Windows Server Administration

- 1 • Active Directory & Domain Services
- 2 • User & Group management
- 3 • DNS, DHCP & File Services
- 4 • Group Policies (GPO)

Module 3 – Linux Server Administration

- 1 • Linux server installation
- 2 • Users, permissions & services
- 3 • SSH, firewall & logs
- 4 • Web server deployment

Module 4 – Virtualization & Storage

- 1 • VMware / Hyper-V
- 2 • Virtual networking
- 3 • Storage concepts & RAID

Module 5 – Backup, Monitoring & Security

- 1 • Backup strategies & disaster recovery
- 2 • Server monitoring tools
- 3 • Server hardening & security best practices

Module 6 – Automation & Scripting

- 1 • Bash scripting basics
- 2 • PowerShell fundamentals
- 3 • Task automation & scheduling

Module 7 – Final Project

- 1 • Build enterprise server environment
- 2 • Implement security & backup
- 3 • Troubleshooting & documentation

Learning Outcomes

- 1 • Manage Windows & Linux servers
- 2 • Implement secure server environments
- 3 • Virtualization & storage management
- 4 • Automation & monitoring skills