



## **Server Admin + Azure**

Course Title: Server Admin + Azure

**Course Overview:** This course equips students with practical skills in server administration, group policy management, and introduces fundamental concepts of Azure cloud services. Through hands-on exercises and real-world scenarios, students will learn to configure and administer server roles, implement group policies, manage user accounts, and gain an introductory understanding of Azure. By the end of the course, students will be proficient in deploying, securing, and maintaining server environments, along with a basic grasp of Azure services.

### **Course Objectives:**

1. Understand server roles and their significance in network environments.
2. Configure and manage server roles such as Active Directory Domain Services, DNS, DHCP, and File Services.
3. Implement and manage group policies for centralized management of user and computer settings.
4. Administer user accounts, groups, and permissions in a Windows Server environment.
5. Introduce fundamental concepts of Azure cloud services for beginners.
6. Troubleshoot common server administration, group policy, and Azure issues.
7. Develop effective communication and collaboration skills in IT environments.

## **Course Structure:**

### **Module 1: Introduction to Server Administration**

- Overview of server roles and their functions
- Introduction to Windows Server operating systems
- Basics of server administration tools and utilities

### **Module 2: Active Directory Domain Services (AD DS)**

- Installation and configuration of AD DS
- User and group management in AD DS
- Organizational Unit (OU) structure and administration

### **Module 3: Group Policy Management**

- Introduction to Group Policy Objects (GPOs)
- Configuration and management of GPOs
- Group Policy inheritance and processing order

### **Module 4: Server Roles: DNS and DHCP**

- Configuration and management of DNS (Domain Name System)
- Implementation of DHCP (Dynamic Host Configuration Protocol)
- Integration of DNS and DHCP services

### **Module 5: Server Roles: File Services**

- File server deployment and configuration
- Shared folder and NTFS permissions
- Access-based enumeration (ABE) and quota management

### **Module 6: Introduction to Azure Cloud Services**

- Overview of Azure cloud services
- Basic navigation and introduction to Azure Portal
- Azure subscription and resource groups

### **Module 7: Azure Virtual Machines and Networking**

- Creating and managing Azure virtual machines (VMs)
- Introduction to Azure networking concepts
- Implementing virtual networks and subnets in Azure

**Course Delivery:**

- Students will have access to a virtual lab environment for practicing server administration tasks.

Prerequisites:

- Basic understanding of Windows operating systems and networking concepts.
- Familiarity with basic administrative tasks in Windows environments.
- Proficiency in using a computer and accessing online resources.