

AZ-104

Microsoft Azure Administrator

Description:

This course teaches IT Professionals how to manage their Azure subscriptions, secure identities, administer the infrastructure, configure virtual networking, connect Azure and on-premises sites, manage network traffic, implement storage solutions, create and scale virtual machines, implement web apps and containers, back up and share data, and monitor your solution.

Students will be able to:

- Create and scale virtual machines.
- Implement storage solutions.
- Configure virtual networking.
- Back up and share data.
- Connect Azure and on-premises sites.
- Manage network traffic.
- Implement Azure Active Directory.
- Secure identities.
- Monitor your solution.

Course requirements:

- Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.
- Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.
- Understanding of Active Directory concepts, including domains, forests, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP).
- Understanding of resilience and disaster recovery, including backup and restore operations.

This course is intended for:

Azure Administrators who want manage the cloud services that span storage, networking, and compute cloud capabilities, with a deep understanding of each service across the full IT lifecycle.

Literature:

All participants will receive original Microsoft student materials and access to labs.

Hardware:

Classrooms are equipped with high-performance computers with Internet access and the possibility of wireless connection.

Syllabus:

Module 1: Identity

- Azure Active Directory
- Users and Groups

Module 2: Governance and Compliance

- Subscriptions and Accounts
- Azure Policy
- Role-based Access Control (RBAC)

Module 3: Azure Administration

- Azure Resource Manager
- Azure Portal and Cloud Shell
- Azure PowerShell and CLI
- ARM Templates

Module 4: Virtual Networking

- Virtual Networks
- IP Addressing
- Network Security groups
- Azure Firewall
- Azure DNS

Module 5: Intersite Connectivity

- VNet Peering
- VPN Gateway Connections
- ExpressRoute and Virtual WAN

Module 6: Network Traffic Management

- Network Routing and Endpoints
- Azure Load Balancer
- Azure Application Gateway
- Traffic Manager

Module 7: Azure Storage

- Storage Accounts
- Blob Storage
- Storage Security
- Azure Files and File Sync
- Managing Storage

Module 8: Azure Virtual Machines

- Virtual Machine Planning

- Creating Virtual Machines
- Virtual Machine Availability
- Virtual Machine Extensions

Module 9: Serverless Computing

- Azure App Service Plans
- Azure App Service
- Container Services
- Azure Kubernetes Service

Module 10: Data Protection

- File and Folder Backups
- Virtual Machine Backups

Module 11: Monitoring

- Azure Monitor
- Azure Alerts
- Log Analytics
- Network Watcher

Contact us

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