

# AZ-104

## Microsoft Azure Administrator

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### 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**

OKsystem a.s., Na Pankráci 1690/125, 140 00 Prague 4  
(+420) 236 072 111 skoleni@oksystem.cz www.okskoleni.cz

