



Sanisoft
information technologies

Microsoft

Azure Administrator Associate

Overview

An Azure Administrator is responsible for implementing, monitoring, and maintaining Microsoft Azure solutions, including major services related to compute, storage, network, and security.

Duration 80 Hrs

Prerequisites:

Successful Azure Administrators start this role with experience on operating systems, virtualization, cloud infrastructure, storage structures, and networking.

Course Exam

Code	Name	Duration
AZ-100	Microsoft Azure Infrastructure and Deployment	40 Hrs
AZ-101	Microsoft Azure Integration and Security	40 Hrs

AZ-100, Azure Infrastructure and Deployment

- **AZ-100T01: Managing Azure Subscriptions and Resources**
- **AZ-100T02: Implementing and Managing Storage**
- **AZ-100T03: Deploying and Managing Virtual Machines**
- **AZ-100T04: Configure and Manage Virtual Networks**
- **AZ-100T05: Manage Identities**

AZ-101, Azure Integration and Security

- **AZ-101T01: Migrate Servers to Azure**
- **AZ-101T02: Implement and Manage Application Services**
- **AZ-101T03: Implement Advanced Virtual Networking**
- **AZ-101T04: Secure Identities**



Course Objective

- **Manage Azure subscriptions and billing, and implement Azure policies.**
- **Implement access management with Azure users, groups, and role-based access control.**
- **Use Azure Monitor to configure Azure alerts and review the Azure Activity Log.**
- **Query and analyze Log Analytics data.**
- **Deploy resources with ARM templates and organize Azure resources.**
- **Optimize your use of Azure tools like the Azure portal, Azure PowerShell, Cloud Shell and the Azure CLI.**
- **Create Azure storage accounts for different data replication, pricing, and content scenarios.**
- **Implement virtual machine storage, blob storage, Azure files, and structured storage.**
- **Secure and manage storage with shared access keys, Azure backup, and Azure File Sync.**
- **Store and access data using Azure Content Delivery Network, and the Import and Export service.**
- **Monitor Azure storage with metrics and alerts, and the Activity Log.**
- **Explain virtual machine usage cases, storage options, pricing, operating systems, networking capabilities, and general planning considerations.**
- **Create Windows virtual machines in the Azure Portal, with Azure PowerShell, or using ARM Templates.**
- **Deploy custom server images and Linux virtual machines.**
- **Configure virtual machine networking and storage options.**
- **Implement virtual machine high availability, scalability, and custom scripts extensions.**
- **Backup, restore, and monitor virtual machines.**
- **Understand virtual networking components, IP addressing, and network routing options.**
- **Implement Azure DNS domains, zones, record types, and resolution methods.**
- **Configure network security groups, service endpoints, logging, and network troubleshooting.**

Course Objective

- **Implement site connectivity schemas including VNet-to-VNet connections and virtual network peering.**
- **Implement Azure Active Directory, Self-Service Password Reset, Azure AD Identity Protection, and integrated SaaS applications.**
- **Configure domains and tenants, users and groups, roles, and devices.**
- **Implement and manage Azure Active Directory integration options and Azure AD Application Proxy.**
- **Use Azure Migrate to discover and assess on-premises virtual machine migration to Azure.**
- **Use Azure Site Recovery to migrate Hyper-V infrastructures to Azure.**
- **Use Azure Database Migration service and Azure Import/Export service for data migration scenarios.**
- **Implement use cases and configuration options for Azure App Services and App Service Environments.**
- **Manage and secure web apps with backup, restore, snapshot, and cloning.**
- **Optimize your web app performance with Scale Up, Scale Out, Autoscale, and Grow out strategies.**
- **Deploy serverless computing features like Azure Functions, Event Grid, and Service Bus.**
- **Implement and configure Azure Load Balancer, Azure Traffic Manager, and Azure Application Gateway.**
- **Implement and configure Site-to-Site VPN connections and ExpressRoute.**
- **Implement and configure Network Watcher and troubleshooting common network issues.**
- **Use Azure RBAC to grant a granular level of access based on an administrator's assigned tasks.**
- **Use Azure Multi-Factor Authentication to configure a strong authentication for users at sign-in.**
- **User Azure AD Privileged Identity Management to configure access rights based on just-in-time administration.**

Target Audience

This course is for Azure Administrators. Azure Administrators manage the cloud services that span storage, networking, and compute cloud capabilities, with a deep understanding of each service across the full IT lifecycle. They take end-user requests for new cloud applications and make recommendations on services to use for optimal performance and scale, as well as provision, size, monitor and adjust as appropriate. This role requires communicating and coordinating with vendors. Azure Administrators use the Azure Portal and as they become more proficient they use PowerShell and the Command Line Interface.



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