**MICROSOFT**

# Microsoft Certified: Azure Administrator Associate

## Validate your technical skills and grow your career.

This certification demonstrates that the recipient is proficient in implementing, monitoring and managing a Microsoft Azure environment for their organization.

### Why Take The Microsoft Certified: Azure Administrator Associate AZ-104 Exam?

The need AI tech professionals is going to increase dramatically in the near future and passing the exam will help you secure an excellent position in the industry as an Azure Administrator.

### Increase Your Salary:

- The average salary for someone who holds a Microsoft Certified: Azure Administrator Associate certification is around $108,000 / year

### Be Part Of The Team

- As an Azure Administrator you become part of a team that is dedicated to managing cloud-based or hybrid environments for your organization's cloud infrastructure.

### Abilities Validated By The Certification:

- Manage Azure identities and governance
- Implement and manage storage
- Deploy and manage Azure compute resources
- Configure and manage virtual networking
- Monitor and back up Azure resources

## Recommended Knowledge & Experience:

- At least 6 months of hands-on experience administering Azure, with a strong understanding of core Azure services, workloads, security and governance.
- Candidates should also have experience using PowerShell, Azure CLI, Azure portal and Azure Resource Manager templates.

## Exam Topics & Scoring:

*Microsoft Certified Azure Security Technologies (AZ-104) Exam*

**MANAGE AZURE IDENTITIES AND GOVERNANCE (20%)**

*Manage Azure AD objects*

- create users and groups
- manage user and group properties
- manage device settings
- perform bulk user updates
- manage guest accounts
- configure Azure AD Join
- configure self-service password reset
- NOT: Azure AD Connect; PIM

*Manage role-based access control (RBAC)*

- create a custom role
- provide access to Azure resources by assigning roles
    - subscriptions
    - resource groups
    - resources (VM, disk, etc.)
- interpret access assignments
- manage multiple directories

*Manage subscriptions and governance*

- configure Azure policies
- configure resource locks
- apply tags
- create and manage resource groups
    - move resources
    - remove RGs
- manage subscriptions
- configure Cost Management

- configure management groups

## IMPLEMENT AND MANAGE STORAGE (20%)

### Manage storage accounts

- configure network access to storage accounts
- create and configure storage accounts
- generate shared access signature
- manage access keys
- implement Azure storage replication
- configure Azure AD Authentication for a storage account

### Manage data in Azure Storage

- export from Azure job
- import into Azure job
- install and use Azure Storage Explorer
- copy data by using AZCopy

### Configure Azure files and Azure blob storage

- create an Azure file share
- create and configure Azure File Sync service
- configure Azure blob storage
- configure storage tiers for Azure blobs

## DEPLOY AND MANAGE AZURE COMPUTE RESOURCES (20%)

### Configure VMs for high availability and scalability

- configure high availability
- deploy and configure scale sets

### Automate deployment and configuration of VMs

- modify Azure Resource Manager (ARM) template
- configure VHD template
- deploy from template
- save a deployment as an ARM template
- automate configuration management by using custom script extensions

### Create and configure VMs

- configure Azure Disk Encryption

- move VMs from one resource group to another
- manage VM sizes
- add data discs
- configure networking
- redeploy VMs

### Create and configure containers

- create and configure Azure Kubernetes Service (AKS)
- create and configure Azure Container Instances (ACI)
- NOT: selecting a container solution architecture or product; container registry settings

### Create and configure Web Apps

- create and configure App Service
- create and configure App Service Plans
- NOT: Azure Functions; Logic Apps; Event Grid

### CONFIGURE AND MANAGE VIRTUAL NETWORKING (20%)

### Implement and manage virtual networking

- create and configure VNET peering
- configure private and public IP addresses, network routes, network interface, subnets, and virtual network

### Configure name resolution

- configure Azure DNS
- configure custom DNS settings
- configure a private or public DNS zone

### Secure access to virtual networks

- create security rules
- associate an NSG to a subnet or network interface
- evaluate effective security rules
- deploy and configure Azure Firewall
- deploy and configure Azure Bastion Service
- NOT: Implement Application Security Groups; DDoS

### Configure load balancing

- configure Application Gateway
- configure an internal load balancer
- configure load balancing rules
- configure a public load balancer

- troubleshoot load balancing
- NOT: Traffic Manager and FrontDoor and PrivateLink

### Monitor and troubleshoot virtual networking

- monitor on-premises connectivity
- use Network Performance Monitor
- use Network Watcher
- troubleshoot external networking
- troubleshoot virtual network connectivity

### Integrate an on-premises network with an Azure virtual network

- create and configure Azure VPN Gateway
- create and configure VPNs
- configure ExpressRoute
- configure Azure Virtual WAN

## MONITOR AND BACK UP AZURE RESOURCES (20%)

### Monitor resources by using Azure Monitor

- configure and interpret metrics o analyze metrics across subscriptions
- configure Log Analytics
  - implement a Log Analytics workspace
  - configure diagnostic settings
- query and analyze logs
  - create a query
  - save a query to the dashboard
  - interpret graphs
- set up alerts and actions
  - create and test alerts
  - create action groups
  - view alerts in Azure Monitor
  - analyze alerts across subscriptions
- configure Application Insights
- NOT: Network monitoring

### Implement backup and recovery

- configure and review backup reports
- perform backup and restore operations by using Azure Backup Service
- create a Recovery Services Vault o use soft delete to recover Azure VMs
- create and configure backup policy
- perform site-to-site recovery by using Azure Site Recovery

- NOT: SQL or HANA

## Prepare for your exam:

The best way to prepare is with first-hand experience. Taking advantage of the opportunities that Phoenix TS provides will assist you with gathering all the knowledge and skills you'll need for certification.

# Phoenix TS Microsoft Certified: Azure Administrator Associate – Learning Pathways

- ### **AZ-104T00: Microsoft Azure Administrator**

Course Overview Phoenix TS' 4-day instructor-led Microsoft Azure Administrator training and certification boot camp in Washington, DC Metro, Tysons Corner, VA, Columbia, MD or Live Online 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 […]

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## Exam Details

- Multiple choice, multiple answers
- Testing in person or online proctored exam
- 130 Min to take the test
- $150 test fee
- Available in English, Japanese, Korean, and Simplified Chinese