

Microsoft Certified: Azure Administrator Associate (AZ-104)

This entry-level Microsoft Azure Administrator training prepares Azure administrators for the AZ-104 exam, the one required exam to earn the Microsoft Certified Azure Administrator Associate certification. The course covers how to implement, manage and monitor Azure networks with an eye to identity, governance, storage, and compute administration.

[CBT Nuggets course material](#) →

WEEK 1

Understand Azure Regions, Zones, and Resources 164 min.

Create an Azure Account	15
Something as a Service	9
Regions and Availability Zones	6
Resource Groups	7
Explore Azure AD	9
Explore Cost Management + Billing	4
Challenge	1

A Primer on Powershell and AZ CLI

Before you begin...	3
Install Powershell and AZ CLI	10
Understand Cmdlets and Parameters	10
Understand Classes, Properties, and the Pipeline	10
Connect to Azure and Work the Pipeline	6
The Basics of the AZ CLI	7
CHALLENGE	2

Administering the Storage Account

The Core, Everything Resource of Azure	2
Storage Account Features and Pricing (and more)	13
Redundancy Options	9
Create a Storage Account	13
Containers, File shares, Queues, and Tables	12
Data Management Tools	16

WEEK 2

151 min.

CHALLENGE 4

Configure Access to Azure Storage Accounts

Controlling Access to the Storage Accounts 1

Understanding Roles 21

Creating a Role Assignment 6

Assigning Permissions to Managed Identities 6

Lock Down the Storage Account Firewall 6

Access Keys 3

Shared Access Signatures 5

Stored Access Policies 3

CHALLENGE 2

Advanced Storage Account Administration Techniques

Understanding Data Resiliency at a Deeper Level 1

Understand File Share Authentication Options 10

Mount a File Share (Windows) 5

Mount a File Share (MacOS) 3

Mount a File Share (Ubuntu) 3

Explore BLOB Versioning 7

Change a BLOB Access Tier (Portal and Posh) 5

Create a Lifecycle Policy 5

CHALLENGE 4

Administer Azure AD and Roles

Digging into Azure AD 1

Create and Manage Users 16

Create and Manage Groups 5

Manage User Licenses 5

Manage Application Identities 13

Manage Roles and Role Assignments 7

Interpret User Access to Resources 4

WEEK 3

152 min.

Configure Self Service Password Reset 3

CHALLENGE 2

Deploy and Manage Virtual Machines

Dig Into IaaS 3

Create a VM (Portal) 24

Connect to a VM 7

Connect Through Azure Bastion 5

Evaluate VM Sizes 4

Manage VM Disks 7

Availability Sets 8

VM Scale Sets 7

CHALLENGE 6

Plan and Implement Virtual Networks

Exploring the Networking Side of IaaS 1

Design and Plan for VNets 13

Create VNets and Subnets 9

Create VNet Peerings 10

Create and Associate Public IPs 5

Manage Subnet Route Tables 5

CHALLENGE 5

Advanced VNet Engineering

Digging Deeper Into VNet Designs	2
Network Security Groups	13
Application Security Groups	5
Service Endpoints	8

WEEK 4

159 min.

Private Endpoints	7
Load Balancers	11
DNS in Azure	12
CHALLENGE	3

Deploy and Manage App Services

Introducing Web Hosting Made Easy	1
Scaffold a Basic React App	10
Deploy an App Service Plan	9
Create the App Service Resource	5
Deploy Code to the App Service	5
Scale an App Service	4
Custom Domains and TLS Certificates	7
Backups and Deployment Slots	11
CHALLENGE	2

Containerize an Application with Docker Desktop

Introducing Containerized Apps	2
Understanding Containers	15
Understanding Microservices	11
Scaffold a Basic React App	4
Understanding Dockerfile	8

Build and Run the Container	9
Stop and Remove the Container	4
CHALLENGE	3

Push and Run Containers in Azure

Now do it in Azure	1
Understand ACR and ACI	15

WEEK 5

159 min.

Create an ACR	10
Push Your Images to ACR	7
Run the Container in ACI	12
Monitor and Manage ACIs	4
Deploy Your Containerized Web App on App Services	3
CHALLENGE	3

Deploy a Microservice with Container Apps

Supplemental Files	1
Introducing Container Apps	2
Understand Why Container Apps are Awesome	12
Prep Your Environment for Container Apps	12
Deploy a Container App	5
Handle the Managed Identity	7
Scaling a Container App	7
CHALLENGE	2

Arm Yourself with ARM Templates

Introducing Azure Resource Manager Templates	2
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The Point of ARM Templates	12
Define Resources to Deploy	10
Define Parameters and Parameter Files	12
Create Variables	8
Recognize Template Functions	2
CHALLENGE	2

Pump Up Your Template Skills with Bicep

Introducing the OTHER ARM Template	2
When to Use Bicep	10
Create a Basic Bicep Template	12

WEEK 6

156 min.

Add Params to the Template	6
Create Resources with Dependencies	9
Variables and Functions	4
Add Conditional Logic	4
CHALLENGE	2

Implement Backup and Recovery for Azure Resources

Introducing Backup and Recovery Vaults	2
Deploy a Recovery Services Vault	11
Replicate a VM	9
Perform a Test Failover	10
Perform a Production Failover	8
Perform a Failback	3
Create a Backup Vault and Backup Policy	7
Configure Backups	4

CHALLENGE	2
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Keep Your Stuff Alive with Azure Monitor

Introducing Metrics and Logs	3
Differentiating Metrics and Logs	15
Explore Azure Monitor Capabilities	10
Interpret Metrics in Azure Monitor	10
Analyze Logs in Azure Monitor	19
Create Monitoring Alerts	10
Explore VM and Network Insights	8

WEEK 7

2 min.

CHALLENGE	2
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