Microsoft Azure Exam AZ-104 Certification

6%

Practice Test	Video Course	Labs	Sandbox	
22 Quizzes Available	108 Video Available **9+ Total Hours**	165 Labs Available	1 Sandbox Available	

Download Cheat Sheet Quick Exam Reference - Hand-Picked for you

My Bookmarked Labs   + Expand

1. Manage Azure subscriptions and governance
2h 45m | 4 Labs

Creating Azure resource locks		45m	Attempts	Start
Working with resource tags		30m	Attempts	Start
Creating Azure Policies		30m	Attempts	Start
Working with Alerts		1h 0m	Attempts	Start

2. Configure, Manage and Access Storage Accounts
9h 30m | 11 Labs

Create a Storage Account		🕐 30m	Attempts	Start
Network Access to Storage Accounts		🕐 1h 0m	Attempts	Start
Create a Storage Account using Terraform		🕐 1h 0m	Attempts	Start
Migrate data to cloud with AzCopy		🕐 45m	Attempts	Start
Understanding Azure Blob Storage Tiers		🕐 30m	Attempts	Start
Route storage events to web endpoint with PowerShell		🕐 45m	Attempts	Start
Connect your Azure Storage Explorer to a storage account		🕐 1h 0m	Attempts	Start
Monitor and Troubleshoot Azure Storage with Log Analytics		🕐 1h 0m	Attempts	Start
Analyze and Troubleshoot Storage Issues Using Azure Metrics		🕐 45m	Attempts	Start
E-Commerce Analytics Platform		🕐 1h 30m	Attempts	Start
Create Queue storage and messaging using Python		🕐 45m	Attempts	Start

⊖ 3. Configure Azure Files and Azure Blob Storage   🕐 2h 15m   3 Labs

Working with Blob Storage	🔖	🕐 30m	Attempts	Start
Working with Azure File Shares	🔖	🕐 45m	Attempts	Start
Create an SMB Azure file share and connect it to a Windows VM using the Azure portal	🔖	🕐 1h 0m	Attempts	Start

⊖ 4. Automate deployment of resources by using templates	🕐 4h 45m	8 Labs

Create a Windows VM using an ARM template	🔖	🕐 30m	Attempts	Start
Create an internal load balancer to load balance VMs by using an ARM template	🔖	🕐 45m	Attempts	Start
Publish Azure Static Web Apps using an ARM Template	🔖	🕐 1h 0m	Attempts	Start
Create a Batch account by using ARM template	🔖	🕐 30m	Attempts	Start
Creating an Azure DNS zone and record using an ARM template	🔖	🕐 30m	Attempts	Start
Create a Windows virtual machine using a Bicep file	🔖	🕐 30m	Attempts	Start
Creating an Azure DNS zone and record using Bicep	🔖	🕐 30m	Attempts	Start
Implement DNS name resolution in Azure	🔖	🕐 30m	Attempts	Start

⊖ 5. Create and configure VMs	🕐 8h 30m	11 Labs

Create a VM with CLI	🔖	🕐 30m	Attempts	Start
Adding Data Disks to the VM Using CLI	🔖	🕐 30m	Attempts	Start
Creating a linux VM	🔖	🕐 30m	Attempts	Start
Deploying Software with VM Extensions	🔖	🕐 45m	Attempts	Start
Deploy an NVA and Set Up Virtual Machines	🔖	🕐 45m	Attempts	Start
Resizing of Virtual Machine	🔖	🕐 1h 0m	Attempts	Start
Creating Availability Set	🔖	🕐 1h 0m	Attempts	Start
Installing and Configuring an SSH Server on Linux	🔖	🕐 1h 0m	Attempts	Start
Virtual Machine Scale Sets - Custom Script Extensions	🔖	🕐 1h 0m	Attempts	Start
Create and manage a Virtual Machine Scale Set Using Azure CLI	🔖	🕐 45m	Attempts	Start
Create SQL Server on Azure VM with PowerShell	🔖	🕐 45m	Attempts	Start

6. Create and configure containers   🕐 4h 30m   6 Labs

Deploy your first container app using the Azure portal — 30m — Attempts | Start

Create a container registry by using a Bicep file — 30m — Attempts | Start

Confidential Container Deployment Using Azure Portal — 45m — Attempts | Start

Deploying a container instance using ARM template — 30m — Attempts | Start

Containerizing Web Apps on Azure App Service — 1h 30m — Attempts | Start

Deploy container app using Azure CLI — 45m — Attempts | Start

7. Create and configure an Azure App Service
3h | 3 Labs

Create an Azure Web App Using CLI — 30m — Attempts | Start

Integrate Azure Content Delivery Network with an Azure App Service Web App — 1h 0m — Attempts | Start

Azure Web App Development with RESTful APIs Using Node.js and SQL Database — 1h 30m — Attempts | Start

8. Configure virtual networks
6h 45m | 7 Labs

Implementing Virtual
Network Peering

🔖   🕐 1h 30m | Attempts | Start

Configure virtual network
peering connections by
using Azure CLI commands

🔖   🕐 1h 30m | Attempts | Start

Create an Azure Virtual
Network with Terraform

🔖   🕐 30m | Attempts | Start

Understand Network
Security Group rules

🔖   🕐 1h 0m | Attempts | Start

Setting Up Global VNet
Peering in Azure with
Terraform

🔖   🕐 1h 0m | Attempts | Start

Adding a network interface

🔖   🕐 30m | Attempts | Start

End-to-End Azure VNet
Architecture with Public and
Private access VMs

🔖   🕐 45m | Attempts | Start

⊖ 9. Configure load balancing   🕐 6h 30m | 5 Labs

Creating an Application
Gateway

🔖   🕐 1h 0m | Attempts | Start

Creating a Basic Load
Balancer

🔖   🕐 1h 0m | Attempts | Start

Create an internal load
balancer to load balance
VMs

🔖   🕐 1h 30m | Attempts | Start

Create a gateway Load
balancer using Azure Portal

🔖   🕐 1h 0m | Attempts | Start

Troubleshoot routing, traffic
control and load balancing
in Microsoft Azure

🔖   🕐 2h 0m | Attempts | Start

10. Monitor virtual networking
🕐 1h | 1 Labs

Deploy a Highly Available Web Application with Docker and Nginx Load Balancer on Azure Linux VMs — 🔖 🕐 1h 0m | Attempts | Start

11. Monitor resources by using Azure Monitor
🕐 45m | 1 Labs

Alert on events within your Azure infrastructure using Activity Log Alerts — 🔖 🕐 45m | Attempts | Start

12. Miscellaneous Labs
🕐 60h | 50 Labs

Create a SQL database — 🔖 🕐 1h 0m | Attempts | Start

Implement Azure Functions — 🔖 🕐 1h 0m | Attempts | Start

Install NGINX Webserver using Custom Script Extensions — 🔖 🕐 45m | Attempts | Start

Installing NGINX on Linux using Cloud Init — 🔖 🕐 45m | Attempts | Start

Understanding Azure Database Services — 🔖 🕐 1h 30m | Attempts | Start

Working with Custom Images — 🔖 🕐 45m | Attempts | Start

Working with Application Insights — 🔖 🕐 30m | Attempts | Start

Creating Azure Firewall — 🔖 🕐 1h 30m | Attempts | Start

Create a Linux VM using Terraform — 🔖 🕐 45m | Attempts | Start

Azure Blob Storage Photo Uploader

🔖 🕐 2h 0m | Attempts | Start

Manage Windows Virtual Machines with Azure Bastion

🔖 🕐 45m | Attempts | Start

Subscribe to Azure Kubernetes Service (AKS) events with Azure Event Grid

🔖 🕐 30m | Attempts | Start

Create a C# function in Azure from the command line

🔖 🕐 1h 0m | Attempts | Start

Connect Azure Functions to Azure Storage using command line tools

🔖 🕐 2h 0m | Attempts | Start

Create a C# function in Azure using Visual Studio Code

🔖 🕐 1h 30m | Attempts | Start

Build a Consumption Logic App Workflow in Azure Portal

🔖 🕐 2h 0m | Attempts | Start

Use Azure Event Grid to route Blob storage events to web endpoint

🔖 🕐 1h 0m | Attempts | Start

Route custom events to an Azure function by using Event Grid in Visual Studio

🔖 🕐 1h 30m | Attempts | Start

Configuring a Private DNS Zone Using the Azure Portal

🔖 🕐 1h 30m | Attempts | Start

Use Azure CLI to route custom events to a web endpoint

🔖 🕐 45m | Attempts | Start

Secure Azure Functions with Private Site Access

🔖 🕐 2h 0m | Attempts | Start

Route storage events to web endpoint with Azure CLI   🔖   🕐 45m   Attempts | Start

Control Azure Functions Outbound IP using NAT Gateway   🔖   🕐 1h 30m   Attempts | Start

Send events from private container registry to Event Grid   🔖   🕐 45m   Attempts | Start

Migrate Event Hubs Data from Azure Storage to Synapse Analytics with Event Grid and Functions   🔖   🕐 2h 0m   Attempts | Start

Create an application gateway with path-based routing rules using the Azure portal   🔖   🕐 1h 30m   Attempts | Start

Configuring TLS Termination with Azure Application Gateway   🔖   🕐 1h 30m   Attempts | Start

Create and configure an application gateway to host multiple web sites using the Azure portal   🔖   🕐 1h 30m   Attempts | Start

Configure Application Gateway with a frontend public IPv6 address using the Azure portal   🔖   🕐 1h 30m   Attempts | Start

Create an application gateway with HTTP to HTTPS redirection using the Azure CLI   🔖   🕐 1h 30m   Attempts | Start

Create an application gateway that improves web application access using PowerShell   🔖   🕐 1h 30m   Attempts | Start

Configure Application Gateway with a frontend public IPv6 address using Azure PowerShell

🔖   🕐 1h 30m | Attempts | Start

Create a PowerShell function in Azure from the Visual Studio Code

🔖   🕐 1h 0m | Attempts | Start

Route custom events to web endpoint with PowerShell and Event Grid

🔖   🕐 45m | Attempts | Start

Create an Azure Front Door using Azure PowerShell

🔖   🕐 1h 0m | Attempts | Start

Create an application gateway with path-based redirection using the Azure CLI

🔖   🕐 1h 30m | Attempts | Start

Create an application gateway with path-based redirection using the Azure PowerShell

🔖   🕐 1h 30m | Attempts | Start

Create a Python function in Azure from the command line

🔖   🕐 1h 0m | Attempts | Start

Create a function in Azure with Python using Visual Studio Code

🔖   🕐 1h 0m | Attempts | Start

Create a JavaScript function in Azure from the command line

🔖   🕐 1h 0m | Attempts | Start

Create an Azure Windows VM with Alerts using Terraform

🔖   🕐 45m | Attempts | Start

Create an application
gateway with HTTP to HTTPS
redirection using Azure
PowerShell
🔖 🕐 1h 30m | Attempts | Start

Create an application
gateway that hosts multiple
web sites using the Azure
CLI
🔖 🕐 1h 30m | Attempts | Start

Create an application
gateway that hosts multiple
web sites using Azure
PowerShell
🔖 🕐 1h 30m | Attempts | Start

Create a function in Azure
with TypeScript using Visual
Studio Code
🔖 🕐 1h 0m | Attempts | Start

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command line

Using Azure Virtual Machine
as a Web Server to Deploy
NGINX
🔖 🕐 1h 0m | Attempts | Start

Deploy a LAMP Server on
Azure Using Ubuntu
🔖 🕐 30m | Attempts | Start

Create a Java function in
Azure using VS Code
🔖 🕐 1h 0m | Attempts | Start

Fetching and Managing
Data in Azure Cosmos DB
with NoSQL API
🔖 🕐 1h 0m | Attempts | Start

⊖ 13. Challenge Labs   🕐 37h 30m | 48 Labs

Azure Challenge -
Deploying Software with VM
Extensions
🔖 🕐 1h 0m | Attempts | Start

Deploying a Flask Application with Docker on Azure Ubuntu VM   🔖   🕐 1h 0m   Attempts | Start

VNet Peering Challenge   🔖   🕐 1h 30m   Attempts | Start

Basic Load Balancer Challenge   🔖   🕐 1h 0m   Attempts | Start

Creating Azure Front Door for Your Web App   🔖   🕐 1h 0m   Attempts | Start

Network Access to Storage Accounts Challenge   🔖   🕐 1h 0m   Attempts | Start

Challenge Lab - Installing Internet Information Service   🔖   🕐 1h 0m   Attempts | Start

Create a private link to an Azure Container App with Azure Front Door   🔖   🕐 1h 0m   Attempts | Start

Create a VNet and Subnets in Azure Using Terraform   🔖   🕐 30m   Attempts | Start

Azure Firewall Challenge   🔖   🕐 2h 0m   Attempts | Start

Azure Application Gateway Challenge   🔖   🕐 1h 30m   Attempts | Start

Alert on events within your Azure infrastructure using Activity Log Alerts challenge   🔖   🕐 1h 0m   Attempts | Start

Azure VM Creation using CLI Challenge   🔖   🕐 30m   Attempts | Start

Azure Web App Creation using CLI Challenge   🔖   🕐 30m   Attempts | Start

Challenge Lab - Creating a Linux VM   🔖   🕐 30m   Attempts | Start

Challenge Lab - Implement Azure Functions   🔖   🕐 1h 0m   Attempts | Start

Challenge Lab - Create a SQL database   🔖   🕐 30m   Attempts | Start

Challenge lab- Storage account creation   🔖   🕐 45m   Attempts | Start

Challenge lab- Creating Azure Resource Lock   🔖   🕐 45m   Attempts | Start

Challenge Lab - Understanding Azure Kubernetes Service   🔖   🕐 45m   Attempts | Start

Challenge Lab - Creating Availability Set   🔖   🕐 1h 0m   Attempts | Start

Challenge Lab - Understand Network Security Group rules   🔖   🕐 30m   Attempts | Start

Challenge Lab - Installing NGINX on Linux using Cloud Init   🔖   🕐 30m   Attempts | Start

Challenge Lab - Install NGINX Webserver using Custom Script Extensions   🔖   🕐 30m   Attempts | Start

Challenge Lab - Adding Data Disks to the VM Using CLI   🔖   🕐 30m   Attempts | Start

Challenge Lab - Understanding Azure Database Services   🔖   🕐 30m   Attempts | Start

Challenge Lab - Working with Blob Storage   🔖   🕐 30m   Attempts | Start

Challenge Lab - Working with Azure File Shares   🔖   🕐 30m   Attempts | Start

Challenge Lab - Understanding Azure Blob Storage Tiers	🔖 🕐 30m	Attempts	Start
Challenge lab- Resizing a Virtual machine	🔖 🕐 30m	Attempts	Start
Challenge Lab - Working with Alerts	🔖 🕐 30m	Attempts	Start
Challenge Lab - Working with resource tags	🔖 🕐 30m	Attempts	Start
Challenge Lab - Adding a network interface	🔖 🕐 30m	Attempts	Start
Challenge Lab - Working with Application Insights	🔖 🕐 30m	Attempts	Start
Challenge lab - Implement Azure Kubernetes Service	🔖 🕐 1h 30m	Attempts	Start
Challenge lab - Create a gateway Load balancer using Azure Portal	🔖 🕐 1h 0m	Attempts	Start
Challenge Lab - Create an internal load balancer to load balance VMs by using an ARM template	🔖 🕐 45m	Attempts	Start
Challenge Lab - Publish Azure Static Web Apps using an ARM Template	🔖 🕐 1h 0m	Attempts	Start
Challenge Lab - Create and deploy Azure Function resources from an ARM Template	🔖 🕐 45m	Attempts	Start
Challenge Lab - Adding Data Disk via Console	🔖 🕐 30m	Attempts	Start

Challenge lab - Working with Custom Images	🔖	🕐 45m	Attempts	Start
Challenge lab- Create a Windows VM using an ARM template	🔖	🕐 30m	Attempts	Start
Challenge Lab - Virtual Machine Scale Sets: Custom Script Extensions	🔖	🕐 1h 0m	Attempts	Start
Challenge Lab - Implement DNS name resolution in Azure	🔖	🕐 30m	Attempts	Start
Challenge Lab - Manage Windows Virtual Machines with Azure Bastion	🔖	🕐 45m	Attempts	Start
Challenge Lab - Containerizing Web Apps on Azure App Service	🔖	🕐 45m	Attempts	Start
Challenge Lab - Create an SMB Azure file share and connect it to a Windows VM using the Azure portal	🔖	🕐 1h 0m	Attempts	Start
Challenge Lab - Resizing of Virtual Machine	🔖	🕐 30m	Attempts	Start

⊖ 14. Lab Projects   🕐 12h   6 Labs

Building and Hosting a
Portfolio using Azure App
Service
🔖 🕐 1h 30m | Attempts | Start

Azure APIM Integration with
App Service
🔖 🕐 1h 30m | Attempts | Start

Integrate Azure Services for
Web Solutions
🔖 🕐 2h 0m | Attempts | Start

Monitor, Diagnose, and Fix
IoT Solutions
🔖 🕐 2h 0m | Attempts | Start

Creating a Secure Site-to-
Site VPN Connection
Between Two Azure Virtual
Networks
🔖 🕐 3h 0m | Attempts | Free

Azure VM Auto-Shutdown
and Startup Using Azure
Functions
🔖 🕐 2h 0m | Attempts | Start

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