

# Microsoft Certified: Azure Fundamentals (AZ-900)

This Microsoft Azure Fundamentals course prepares both technical and non-technical professionals to pass the AZ-900 exam, the single exam needed to earn the Microsoft Certified Azure Fundamentals certification. This training provides a solid foundation in cloud computing, covering essential concepts like cloud services, networking, storage, and serverless computing.

[CBT Nuggets course material](#) →

## WEEK 1

### Understand the Point of the Cloud

159 min.

|                               |    |
|-------------------------------|----|
| Understand Cloud Fundamentals | 1  |
| Create an Azure Account       | 11 |
| Define a Cloud                | 12 |
| Defining a Data Center        | 12 |
| Defining DevOps               | 18 |
| Explore What You Can Do       | 7  |

### Understand Core Characteristics of Clouds

|   |    |
|---|----|
| Overview                                | 1  |
| Understand Common Cloud Characteristics | 1  |
| IaaS                                    | 16 |
| PaaS                                    | 12 |
| SaaS                                    | 6  |
| Consumption-Based Pricing               | 11 |
| Who Secures What                        | 8  |

### Understand the Physical and Logical Layout of Azure

|                                    |    |
|------------------------------------|----|
| Overview                           | 1  |
| Introducing Azure Resource Layouts | 1  |
| Azure Regions                      | 11 |
| Azure Availability Zones           | 8  |
| Resource Groups                    | 11 |
| Subscriptions                      | 9  |

## WEEK 2

Management Groups

155 min.

1

## Understand Azure Compute with VMs

|                                    |    |
|------------------------------------|----|
| Overview                           | 1  |
| Introducing Azure Virtual Machines | 1  |
| VM Components                      | 10 |
| Deploy a VM                        | 16 |
| Access a VM                        | 11 |
| VM Availability Sets               | 8  |
| VM Scale Sets                      | 6  |

## Understand Azure Networking

|                                      |    |
|--------------------------------------|----|
| Overview                             | 1  |
| Introducing Azure Networking Designs | 1  |
| Explore Azure Network Options        | 14 |
| Deploy Azure VNets                   | 9  |
| VNet Peering                         | 8  |
| VPNs                                 | 11 |
| ExpressRoute                         | 4  |
| Azure DNS                            | 6  |

## Understand Azure PaaS Compute Options

|  |    |
|--|----|
| Overview                               | 1  |
| Introducing Azure PaaS Compute Options | 2  |
| The Point of PaaS                      | 9  |
| App Services                           | 12 |
| Demo of Deploying to an App Service    | 10 |
| Logic Apps                             | 10 |

|               |   |
|---------------|---|
| Function Apps | 6 |
|---------------|---|

### WEEK 3

151 min.

|                                    |   |
|------------------------------------|---|
| Azure Container Deployment Options | 7 |
|------------------------------------|---|

## Understand Cost Analysis and Prediction Tools

|                                     |    |
|-------------------------------------|----|
| Overview                            | 1  |
| Introducing Azure Cost Analysis     | 2  |
| Explore Resource Pricing            | 12 |
| Total Cost of Ownership Calculator  | 13 |
| Azure Cost Calculator               | 13 |
| Budgets and Subscription Management | 10 |

## Explore Azure Identity and Security Options

|  |    |
|--|----|
| Overview   | 1  |
| Introducing Azure Identity and Governance Operations | 1  |
| Azure Active Directory                               | 13 |
| Synchronizing and Extending Active Directory         | 14 |
| Role Based Access Controls                           | 9  |
| Multi-Factor Authentication                          | 7  |
| Conditional Access                                   | 6  |
| Azure Policy   | 6  |

## Explore Management and Monitoring Tools in Azure

|  |    |
|--|----|
| Overview   | 1  |
| Introducing Azure Tools for Monitoring and Maintenance | 1  |
| Powershell   | 13 |
| Az CLI   | 12 |

### WEEK 4

99 min.

|                                    |   |
|------------------------------------|---|
| Azure Cloud Shell                  | 8 |
| ARM Templates                      | 8 |
| Azure Monitor, Alerts, and Logging | 7 |
| Azure Insights                     | 6 |

## **Explore Azure Storage Operations**

|                                   |    |
|-----------------------------------|----|
| Overview                          | 1  |
| Introducing Azure Storage Options | 1  |
| Deploy a Storage Account          | 8  |
| Storage Account Types             | 16 |
| Storage Access Tiers              | 11 |
| Redundancy Options                | 13 |
| Hybrid Storage Environments       | 10 |
| Storage Migration Options         | 8  |