

# Microsoft Certified: Azure Solutions Architect Expert (AZ-305)

This Designing Microsoft Azure Infrastructure Solutions (AZ-305) training covers how to design and manage a network infrastructure that balances all of an organization's needs with all appropriate Microsoft Azure solutions. After finishing this AZ-305 exam prep, you'll learn how to implement networking, virtualization, identity, security, business continuity, disaster recovery, data platforms, and governance — all with the same tool.

[CBT Nuggets course material](#) →

## WEEK 1

### Design an Azure Logging Solution

155 min.

Introducing Azure Monitoring and Logging Designs	3
Metrics and Logs	11
Log Analytics Workspace	10
Workbooks and Insights	14
Azure Data Explorer	9
Summarizing Azure Monitoring and Logging	2

### Design for Governance, Authentication, and Authorization

Overview	1
Introducing Azure Authentication Designs	2
Azure AD	15
B2B and B2C	12
Conditional Access	6
Managed Identities and Service Principals	10
Key Vault	7
RBAC	9

### Design for Relational Data Resources

Overview	1
Introducing Relational Database Designs in Azure	2
Understand Relational DB Offerings	9
PaaS Pricing Tiers	13
vCore Compute Tiers	9
Azure IaaS SQL Deployment Options	8

## WEEK 2

155 min.

SQL Managed Instance Deployment Design	7
Scaling Vertically and Horizontally	11
Securing Data in Relational Data Sources	10

### Design Data Ingestion and Integration

Overview	1
Introducing ETL and Data Ingestion	2
Understanding ETL	13
Power BI	12
Azure Data Factory	9
Azure Synapse	10
Azure Streaming Analytics	7

### Design Azure Solutions with Non-Relational Databases

Overview	1
Introducing Non-Relational Data Designs	1
Storage Accounts and Redundancy	9
Blob Storage Tiers	10
Azure File Shares	7
Managed Disks	6
Secure Data	7
CosmosDB	8

### Design for Disaster Recovery

Overview	1
Introducing Azure Backup and Recovery	1
Understand Your Recovery Metrics	11
Azure Vault Options	8

## WEEK 3

154 min.

Blob Storage Backup Configurations	8
File Share Backup Configurations	7
Virtual Machine Backup Configurations	10
Azure SQL Backup Configurations	7

### Design for High Availability

Overview	1
Introducing High Availability Designs	1
Azure Front Door	8
Azure Traffic Manager	8
Virtual Machine Availability Options	7
Azure Kubernetes Services Availability	6
Relational Database Availability Options	12
Storage Account Availability Options	5

### Recommend Azure Compute Solutions

Overview	1
Introducing Azure Compute Designs	1
Virtual Machine Designs	11
App Services Design	11
Containerized Compute Designs	12
Event-Driven Compute Designs	9
Batch Compute Designs	6

### Design Azure Application Architectures

Overview	1
Introducing Azure Application Architectures	1
Messages and Event Architectures	4

Queue Storage and Service Bus	7
Event Hub	7

## WEEK 4

127 min.

Event Grid	9
Azure Cache for Redis	9
API Management	7

### Design for Migrations to Azure

Overview	1
Introducing Azure Migration Designs	2
Cloud Migration Frameworks	13
Assessment Tools	9
Compute Migration Tools	8
Database Migration Tools	9
Storage Migration Tools	7

### Recommend a Networking Solution

Overview	1
Introducing Azure Network Designs	2
Virtual Network Designs	14
Virtual Private Network Designs	11
Load Balancing Designs	12
VNet Security Designs	10