

# AZ – 305T00-A: Designing Microsoft Azure Infrastructure Solutions



**Days:** 4

**Prerequisites:** Before attending this course, students must have previous experience deploying or administering Azure resources and strong conceptual knowledge of:

- Azure Active Directory
- Azure compute technologies such as VMs, containers and serverless solutions
- Azure vital networking to include load balancers
- Azure Storage technologies (unstructured and databases)
- General application design concepts such as messaging and high availability

**Audience:** Successful students have experience and knowledge in IT operations, including networking, virtualization, identity, security, business continuity, disaster recovery, data platforms, and governance. Students also have experience designing and architecting solutions.

**Description:** This course teaches Azure Solution Architects how to design infrastructure solutions. Course topics cover governance, compute, application architecture, storage, data integration, authentication, networks, business continuity, and migrations. The course combines lecture with case studies to demonstrate basic architect design principles.

## OUTLINE

### MODULE 1: DESIGN GOVERNANCE AND COMPUTE SOLUTIONS

In this module, you will learn about governance and compute solutions

Lessons

- Design a governance solution
- Design a compute solution

After completing this module, students will be able to:

- Design a governance solution.
- Design a compute solution.

### MODULE 2: DESIGN STORAGE AND DATA INTEGRATION SOLUTIONS

In this module, you will learn about non-relational storage, relational storage, and data integration solutions.

Lessons

- Design a non-relational storage solution
- Design a relation storage solution
- Design a data integration solution

After completing this module, students will be able to:

- Design a non-relational storage solution.
- Design a relation storage solution.
- Design a data integration solution.

# AZ – 305T00-A: Designing Microsoft Azure Infrastructure Solutions

## MODULE 3: DESIGN APP ARCHITECTURE, ACCESS, AND MONITORING SOLUTIONS

In this module, you will learn about app architecture, authentication and authorization, and logging and monitoring solutions.

### Lessons

- Design an app architecture solution
- Design authentication and authorization solutions
- Design a logging and monitoring solution

After completing this module, students will be able to:

- Design an app architecture solution.
- Design authentication and authorization solutions.
- Design a logging and monitoring solution.

## MODULE 4: DESIGN NETWORK, CONTINUITY, AND MIGRATIONS SOLUTIONS

In this module, you will learn about networking, business continuity, and migration solutions.

### Lessons

- Design a network infrastructure solution
- Design a business continuity solution
- Design a migration solution

After completing this module, students will be able to:

- Design a network infrastructure solution
- Design a business continuity solution
- Design a migration solution