

[AZ-305T00]: Designing Microsoft Azure Infrastructure Solutions

Length	: 4 Days
Level	: Advanced
Technology	: Microsoft Azure
Delivery Method	: Instructor-led (Classroom)

Course Overview

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.

Audience Profile

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.

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 virtual networking to include load balancers
- Azure Storage technologies (unstructured and databases)
- General application design concepts such as messaging and high availability

Prerequisite courses (or equivalent knowledge and hands-on experience): This free online training will give you the experience you need to be successful in this course.

- AZ-104: Manage identities and governance in Azure - Learn | Microsoft Docs
- AZ-104: Implement and manage storage in Azure - Learn | Microsoft Docs
- AZ-104: Configure and manage virtual networks for Azure administrators - Learn | Microsoft Docs
- AZ-104: Deploy and manage Azure compute resources - Learn | Microsoft Docs
- AZ-104: Monitor and back up Azure resources - Learn | Microsoft Docs

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Course 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

Lab: Case studies

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 relational storage solution
- Design a data integration solution

Lab: Case studies

After completing this module, students will be able to:

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

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

Lab: Case studies

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.

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Module 4: Design network, continuity, and migration 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

Lab: Case studies

After completing this module, students will be able to:

- Design a networking infrastructure solution.
- Design a business continuity solution.
- Design a migration solution.

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