

DESIGNING MICROSOFT AZURE INFRASTRUCTURE SOLUTIONS

AZ-305T00

Duration: 4 days; Instructor-led

WHAT WILL YOU LEARN

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.

OBJECTIVES

- Design a governance solution.
- Design a compute solution.
- Design an application architecture.
- Design storage, non-relational and relational.
- Design data integration solutions.
- Design authentication, authorization, and identity solutions.
- Design network solutions.
- Design backup and disaster recovery solutions.
- Design monitoring solutions.
- Design migration solutions.

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.

PREREQUISITES

Before attending this course, students must have previous experience deploying or administering Azure resources and 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

COURSE CONTENTS

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.

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.