# Designing Microsoft Azure Infrastructure Solutions (AZ-305T00)

Duration: 4 days
Audience: Professionnel TI

## Who is this training for?

Participants who successfully complete this course have experience and knowledge in IT operations, including networking, virtualization, identity, security, business continuity, disaster recovery, data platforms, and governance.

The participants also have experience in designing and architecting solutions.

## Training objectives

- Design governance solution • Design IT solution
- Design application architecture
- Design non-relational and relational storage solutions
- Design data integration solutions • Design authentication, authorization, and identity solutions
- Design network solutions
- Design backup and disaster recovery solutions
- Design monitoring solutions • Design migration

## Summary

This course teaches how to design complete Azure infrastructure solutions. You'll learn governance, compute, application architecture, storage, data integration, authentication, networking, business continuity, and migrations. The course combines lectures and case studies to demonstrate the basic principles of architectural design.

## Course outline

### Module 1: Designing Governance and Compute Solutions

This module explores governance and compute solutions.

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Lessons

- Designing a Governance Solution
- Designing a Compute Solution Lab:

Case Studies After completing this module, participants will be able to:

- Design a Governance Solution •
- Design a Compute Solution

**Module 2: Design Data Storage and Integration Solutions**

This module explores 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, participants will be able to:

- Design a Non-Relational Storage Solution
- Design a Relational Storage Solution
- Design a Data Integration Solution

**Module 3: Design Application Architecture**, **Access, and Monitoring Solutions**

This Module Discusses application architecture, authentication and authorization, and logging and monitoring solutions.

Lessons

- Design an Application Architecture Solution
- Design Authentication and Authorization Solutions
- Design a Logging and Monitoring Solution Lab:

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Case Studies After completing this module, participants will be able to:

- Design an Application Architecture Solution
- Design Authentication and Authorization Solutions
- Design a Logging and Monitoring Solution

**Module 4: Design Network Solutions**, **Continuity and Migration**

This module explores 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, participants will be able to:

- Design a Network Infrastructure Solution
- Design a Business Continuity Solution
- Design a Migration Solution

## Prerequisites

Basic computer literacy: Understand essential cloud concepts.

## Certifications

This course prepares you for exam AZ-305. Passing it leads to the Microsoft Certified: Azure Solutions Architect Expert certification, provided you also hold the Azure Administrator Associate certification (exam AZ-104), covered by our Microsoft Azure Administrator (AZ-104T00) course.

The exam is available in English and French. A score of 700 is required to pass. The exam price depends on the country where it is taken.

It covers four areas: identity, governance and monitoring (25–30%), data storage (20–25%), business continuity (15–20%) and infrastructure (30–35%).

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