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Learning Style: Virtual Classroom

Technology: Microsoft

Difficulty: Advanced

Course Duration: 4 Days

Designing Microsoft Azure Infrastructure Solutions (AZ-305) Instructor Led Training



About this Course:

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.

Course 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 high availability 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 Outline:

Module 1: Design compute and application solutions

In this module you will learn about governance, compute, and application architectures.

Lessons

- Design for governance
- Design for compute solutions
- Design for application architectures

Lab : Case studies

After completing this module, students will be able to:

- Design a governance solution.
- Design a compute solution.
- Design an application architecture.

Module 2: Design storage 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 non-relational storage solutions.
- Design relational storage solutions.
- Design a data integration solution.

Module 3: Design networking and access solutions

In this module you will learn about authentication and authorization, identity and access for applications, and networking solutions.

Lessons

- Design authentication and authorization solutions
- Design networking solutions

Lab : Case studies

After completing this module, students will be able to:

- Design authentication and authorization solutions.
- Design network solutions.

Module 4: Design business continuity solutions

Lessons

- Design for backup and disaster recovery
- Design monitoring solutions
- Design for migrations

Lab : Case studies

After completing this module, students will be able to:

- Design backup and disaster recovery.
- Design monitoring solutions.
- Design for migrations.

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