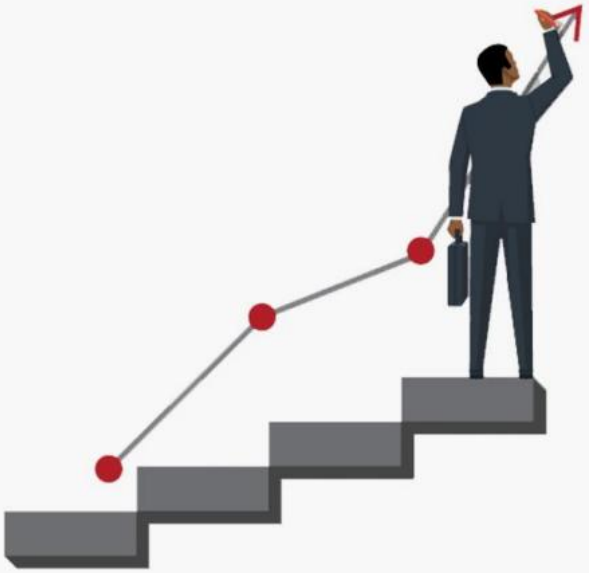
AZ-305-Designing-Microsoft-Azure-Infrastructure-Solutions Training Curriculum

STRUCTURE



AZ-305-Designing Microsoft Azure Infrastructure Solutions

About Croma Campus:

Croma Campus Training & Development Private Limited is an education platform since 2010 providing rigorous industry-relevant programs designed and delivered in collaboration with world-class faculty and industry.

- Hands-On Live Projects
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- Industry Cases Studies
- 61,640+ Satisfied Learners
- 140+ Training Courses
- 100% Certification Passing Rate
- Live Instructor Classroom / Online Training
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Course Content:

Module 1: Design Identity, Governance, and Monitoring Solutions

- Design a Solution for Logging and Monitoring
  - Design a log routing solution
  - Recommend an appropriate level of logging
  - Recommend a monitoring tool(s) for a solution
- Design Authentication and Authorization Solutions
  - Recommend a solution for securing resources with role-based access controls
  - Recommend an identity management solution
  - Recommend a solution for securing identities
- Design Governance
  - Recommend an organizational and hierarchical structure for Azure resources
  - Recommend a solution for enforcing and auditing compliance
- Design Identities and Access for Applications
  - Recommend solutions to allow applications to access Azure resources
  - Recommend a solution that securely stores passwords and secrets
  - Recommend a solution for integrating applications into Azure AD
  - Recommend a user consent solution for applications

Module 2: Design Data Storage Solutions

- Design a Data Storage Solution for Relational Data
  - Recommend database service tier sizing
  - Recommend a solution for database scalability
  - Recommend a solution for encrypting data at rest, data in transmission, and data in use
- Design Data Integration
  - Recommend a solution for data integration
- Recommend a solution for data analysis Recommend a Data Storage Solution
  - Recommend a solution for storing relational data
  - Recommend a solution for storing semi-structured data
  - Recommend a solution for storing non-relational data
- Design a Data Storage Solution for Non-relational Data
  - Recommend access control solutions to data storage
  - Recommend a data storage solution to balance features, performance, and cost
  - Design a data solution for protection and durability

Module 3: Design Business Continuity Solutions

- Design a Solution for Backup and Disaster Recovery
  - Recommend a recovery solution for Azure, hybrid, and on-premises workloads that meets
  - Recovery objectives (RTO, RLO, RPO)
  - Understand the recovery solutions for containers
  - Recommend a backup and recovery solution for compute
  - Recommend a backup and recovery solution for databases
  - Recommend a backup and recovery solution for unstructured data
- Design for High Availability
  - Identify the availability requirements of Azure resources
  - Recommend a high availability solution for Compute
  - Recommend a high availability solution for non-relational data storage
  - Recommend a high availability solution for relational data storage

Module 4: Design Infrastructure Solutions (25-30%)

- Design a Compute Solution
  - Recommend a Virtual Machine-based compute solution
  - Recommend an appropriately sized compute solution based on workload requirements
  - Recommend a Container-based compute solution
  - Recommend a Server less-based compute solution Describe Azure network security
- Design an Application Architecture
  - Recommend a caching solution for applications
  - Recommend a messaging architecture
  - Recommend an event-driven architecture
  - Recommend an automated deployment solution for your applications
  - Recommend an application configuration management solution

  - Recommend a solution for API integration
- Design Migrations
  - Evaluate migration solution that leverages the Cloud Adoption Framework
  - Assess and interpret on-premises servers, data, and applications for migration
  - Recommend a solution for migrating applications and Virtual Machines
  - Recommend a solution for migrating databases
  - Recommend a solution for migrating unstructured data
- Design Network Solutions
  - Recommend a network architecture solution based on workload requirements
  - Recommend a connectivity solution that connects Azure resources to the Internet
  - Recommend a connectivity solution that connects Azure resources to on-premises networks
  - Optimize network performance for applications
  - Recommend a solution to optimize network security
  - Recommend a load balancing and routing solution