

# Microsoft Azure Technologies for AWS Architects

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*Duration: 4 Day(s)*

## Course Overview

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This course teaches Solutions Architects who have previously designed for Amazon Web Services how to translate business requirements into secure, scalable, and reliable solutions for Azure. Lessons include virtualization, automation, networking, storage, identity, security, data platform, and application infrastructure. This course outlines how decisions in each of these areas affects an overall solution.

Review this course online at <https://www.alta3.com/courses/AZ-030T00>

## Objectives

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- Secure identities with Azure Active Directory and manage user access.
- Implement and configure virtual networking and virtual machines.
- Administer Azure resources and monitor applications.
- Design solutions using Azure's data and application management services.

## Who Should Attend

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- AWS Cloud Architects
- Solution Architects
- Cloud Engineers
- IT Professionals with AWS experience

## Prerequisites

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- Experience (>1year) as an AWS Architect designing secure and scalable AWS cloud solutions across storage structures, compute, networking, and the interaction with external resources/services.
- Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.
- Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.
- Understanding of Active Directory concepts, including domains, forests, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP).
- Understanding of resilience and disaster recovery, including backup and restore operations.
- Understanding of programming fundamentals and use of a scripting language.
- Candidates will benefit from familiarity with Azure administration, Azure development processes, and DevOps processes.

# Course Outline

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## Module 1: Introduction to Azure

1. Subscriptions and accounts
2. Resource groups and templates in Azure Resource Manager

## Module 2: Azure Global Infrastructure

3. Azure regions
4. Azure Availability Zones
5. Comparison with AWS

## Module 3: Implement Azure Active Directory

6. Introduction to Azure Active Directory
7. Domains and custom domains
8. Safety features
9. Guest users in Azure Active Directory
10. Manage multiple directories
11. Comparison with AWS

## Module 4: Implement and Manage Hybrid Identities

12. Introduction to Azure AD Connect
13. Comparison with AWS

## Module 5: Implement Virtual Networking

14. Azure Virtual Network and VNet peering
15. VPN and ExpressRoute connections
16. Comparison with AWS

## Module 6: Implement VMs for Windows and Linux

17. Configure high availability
18. Comparison with AWS

## Module 7: Implement Load Balancing and Network Security

19. Implement Azure Load Balancer
20. Implement an Azure Application Gateway
21. Implement Azure Firewall
22. Implement network security groups and application security groups
23. Comparison with AWS

## **Module 8: Implement Container-Based Applications**

- 24. Configure Azure Kubernetes Service
- 25. Publish a solution on an Azure Container Instance
- 26. Comparison with AWS

## **Module 9: Implement an Application Infrastructure**

- 27. Create an App Service plan
- 28. Create and configure Azure App Service
- 29. Configure networking for an App Service
- 30. Introduction to Logic Apps and Azure Functions
- 31. Comparison with AWS

## **Module 10: Implement Storage Accounts**

- 32. Azure Storage core concepts
- 33. Managing the Azure Blob storage lifecycle
- 34. Working with Azure Blob storage
- 35. Comparison with AWS

## **Module 11: Implement NoSQL Databases**

- 36. Introduction to Azure Cosmos DB
- 37. Consistency
- 38. Select appropriate CosmosDB APIs
- 39. Set up replicas in CosmosDB
- 40. Comparison with AWS DynamoDB

## **Module 12: Implement Azure SQL Databases**

- 41. Configure Azure SQL database settings
- 42. Implement Azure SQL Database managed instances
- 43. Configure high availability for an Azure SQL database
- 44. Comparison with AWS

## **Module 13: Implement Cloud Infrastructure Monitoring**

- 45. Monitor security
- 46. Monitor cost
- 47. Configure a Log Analytics workspace
- 48. Comparison with AWS

## **Module 14: Implement and Manage Azure Governance Solutions**

- 49. Assign RBAC roles
- 50. Configure management access to Azure
- 51. Implement and configure an Azure Policy
- 52. Comparison with AWS

## **Module 15: Manage Security for Applications**

- 53. Implement Azure Key Vault
- 54. Implement and configure Azure AD Managed Identities
- 55. Register and manage applications in Azure AD
- 56. Comparison with AWS

## **Module 16: Migration, Backup, and Disaster Recovery Management**

- 57. Migrate workloads
- 58. Implement Azure Backup for VMs
- 59. Implement disaster recovery
- 60. Comparison with AWS