



TechSolutions™

Developing for Azure (AZ-204)

RATHEESH KUMAR

Cloud & DevOps Expert with **14+ Years of Experience** | Founder, TechSolutions | Kerala



+91 94463 30906



www.ratheeshtech.com



ratheesh@ratheeshtech.com

Skills at a glance

- Develop Azure compute solutions (25–30%)
- Develop for Azure storage (15–20%)
- Implement Azure security (20–25%)
- Monitor, troubleshoot, and optimize Azure solutions (15–20%)
- Connect to and consume Azure services and third-party services (15–20%)

Develop Azure compute solutions (25–30%)

Implement containerized solutions

- Create and manage container images for solutions.
- Publish an image to Azure Container Registry
- Run containers by using Azure Container Instance
- Create solutions by using Azure Container Apps.

Implement Azure App Service Web Apps

- Create an Azure App Service Web App
- Enable diagnostics logging.
- Deploy code to a web app.
- Configure web app settings including Transport Layer Security (TLS), API settings, and connection strings.
- Implement autoscaling.

Implement Azure Functions

- Create and configure an Azure Functions app.
- Implement input and output bindings.
- Implement function triggers by using data operations, timers, and webhooks.

Develop for Azure storage (15–20%)

Develop solutions that use Azure Cosmos DB

- Perform operations on containers and items by using the SDK.
- Set the appropriate consistency level for operations.
- Implement change feed notifications.

Develop solutions that use Azure Blob Storage

- Set and retrieve properties and metadata.
- Perform operations on data by using the appropriate SDK.
- Implement storage policies and data lifecycle management.
- Implement static website hosting.

Implement Azure security (20–25%)

Implement user authentication and authorization

- Authenticate and authorize users by using the Microsoft Identity platform.
- Authenticate and authorize users and apps by using Microsoft Entra ID
- Create and implement shared access signatures.
- Implement solutions that interact with Microsoft Graph

Implement secure Azure solutions.

- Secure app configuration data by using App Configuration or Azure Key Vault
- Develop code that uses keys, secrets, and certificates stored in Azure Key Vault
- Implement Managed Identities for Azure resources.

Monitor, troubleshoot, and optimize Azure solutions (15–20%)

Implement caching for solutions.

- Configure cache and expiration policies for Azure Cache for Redis
- Implement secure and optimized application cache patterns including data sizing, connections, encryption, and expiration.
- Implement Azure Content Delivery Network endpoints and profiles.
- Troubleshoot solutions by using Application Insights
- Configure an app or service to use Application Insights
- Monitor and analyze metrics, logs, and traces.
- Implement Application Insights web tests and alerts.

Connect to and consume Azure services and third-party services (15–20%)

Implement API Management

- Create an Azure API Management instance.
- Create and document APIs.
- Configure access to APIs.
- Implement policies for APIs.

Develop event-based solutions.

- Implement solutions that use Azure Event Grid
- Implement solutions that use Azure Event Hub

Develop message-based solutions.

- Implement solutions that use Azure Service Bus
- Implement solutions that use Azure Queue Storage queues.

TechSolutions™