

# Microsoft Azure Integration Services

## Logic Apps, Logic Apps custom connector & Integration Account

- What is Logic Apps
- How Logic Apps Works
- What is new in Logic Apps V2
- When to use Logic Apps
- Conditions
- Actions and Triggers
- Integration of logic apps with other services like blob storage and SQL databases
- Development of Logic Apps in a VS code

## Service Bus queue and topic

- What is Service Bus and why to use it
- Implementing Azure Service Bus: Queue Service
- Azure Service Bus connection strings
- Topics , queues, subscriptions and messages.
- Difference between Queues in Service bus and in storage accounts
- use cases of Service bus Queues and best practices

## Event Grid Subscription/Domain

- Introduction
- Logging and Monitoring in Azure Functions
- Register Event Grid with Subscription
- Use cases of Event Grid and various case studies

## API Management Services

- Need for an API and Benefits of API's.
- OpenID connect + OAuth2
- Publish, Manage secure and analyze API's
- Create managed APIs.
- Add 1-2 policies
- Configure API management policies.
- Logging and Monitoring

## Developer Portal

- Working of Azure's Developer Portal.
- Discovering of API's in Developers portal.

## API Gateways

- API Gateway Concepts.
- Authentication, SSL termination, Routing
- Load Balancing, Monitoring and Billing

## Event Grid Topics

- Introduction to Event Grid
- Logging and Monitoring in Azure Functions
- Register Event Grid with Subscription
- Built-in events and custom events.

## Azure Data Factory

- What is Data Factory and Data Factory in Azure.
- Provisioning of Azure DF, Pipeline, Activities, Linked Service, Datasets.
- Data Factory - Triggers, Data Flow
- User Properties & Monitoring

## Key Vault

- Describe Azure Key Vault
- Granting permissions / RBAC on keyvault
- Retrieve the secrets in keyvault using APIs

## Monitor

- What is Azure Monitor & its working
- Creating Alerts
- Enabling deeper insights and analytics with monitoring system for troubleshooting purposes.

## Log Analytics workspace

- Concept of Log Analytics.
- Scope for a monitored Azure resource/group of resources
- Log Analytics workspace

## Function Apps

- Exploring the Azure Function App
- Triggers and Bindings
- Function Pipeline
- Supported Languages in Azure Functions
- Building a Function Pipeline

## Azure DevOps(Repos, Pipelines,Test Plans)

- Azure DevOps Architecture
- What is Azure Boards, Azure Repos, azure artifacts, Azure pipelines, Azure certification
- YAML Basics for Azure Pipelines
- Managing a DevOps project using Azure DevOps
- Compare Git and TFVC

## Azure AD for features such as Managed Identity

- Azure Active Directory
- Managing Identities
- Securing Applications in AAD
- SSO , Open ID and OAUTH - Differences
- Data Authentication Flow
- Role Based Access Controls

## App registrations

- Configuration of an app registration in Azure AD
- Configuration of authentication and authorization workflows
- Integrating App services with Azure AD for SSO

## Resource Group

- Describe Resources
- Describe Resource Groups
- Describe Resource Manager
- Applying policy
- best practices in creating resource groups and cost management

## Storage accounts

- What is Azure Storage
- Purposes of Blobs, tables , files and queues
- Block , page and append blob differences and use cases
- Data lifecycle management
- Difference between GP V1 and GPV2
- Explore the Azure Data Lake enterprise-class security features.
- Organize your data with Azure Blob Storage
- Create storage resources to hold blobs
- Store and retrieve data from Azure Blob Storage