INFOSOFT IT SOLUTIONS

Training | Projects | Placements

AZURE EVENT GRID

Introduction to Azure Event Grid

- Overview of Azure Event Grid
- Key features and benefits
- Event-driven architecture and use cases

Core Concepts

- Event sources and publishers
- Event handlers and subscribers
- Event schema and data payloads

Event Grid Features and Integration

- Supported Azure services and integrations
- Custom topics and domain-specific events
- Event subscriptions and filters

Event Delivery and Routing

- Event delivery models (Push vs. Pull)
- Routing events to multiple endpoints
- Dead-letter handling and retry policies

Azure Event Grid with Azure Functions

- Triggering Azure Functions with Event Grid
- Event Grid bindings in Azure Functions
- Implementing serverless workflows

Integration with Azure Services

- Integrating with Azure Blob Storage events
- Azure Resource Manager events and automation
- Azure IoT Hub and device telemetry integration

Monitoring and Logging

- Monitoring event delivery and health
- Logging and diagnostics in Azure Event Grid
- Using Azure Monitor for event grid metrics

Security and Compliance

- Authentication and authorization in Event Grid
- Role-based access control (RBAC)
- Compliance considerations and auditing

Advanced Topics

- Custom handlers and custom event publishers
- Fan-out and fan-in patterns with Azure Event Grid
- Implementing event-driven microservices architectures

Advanced Event Grid Concepts

- Event Grid domains and custom topics
- Event schema evolution and versioning
- Custom headers and metadata in events

Event Delivery and Scalability

- Event delivery guarantees and consistency
- Scaling Event Grid for high-throughput scenarios
- Optimizing event delivery latency and reliability

Custom Handlers and Custom Event Publishers

- Implementing custom event handlers
- Developing custom event publishers
- Integration with non-Azure services and external systems

Implementing Event-Driven Microservices Architectures

- Event-driven architecture patterns (e.g., CQRS, Event Sourcing)
- Choreography vs. orchestration patterns
- Designing resilient and scalable microservices using Event Grid

Monitoring, Logging, and Diagnostics

- Advanced monitoring with Azure Monitor and Application Insights
- Log aggregation and analysis for Event Grid
- Using metrics and alerts for proactive monitoring

Advanced Security and Compliance

- Implementing secure event-driven architectures
- End-to-end encryption and data protection
- Compliance considerations and regulatory requirements