

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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AZURE SERVICE BUS

Introduction to Azure Service Bus

1. Overview of Azure Service Bus
2. Key Features and Benefits
3. Messaging Patterns and Use Cases

Setting Up Azure Service Bus

1. Creating Azure Service Bus Namespace
2. Managing Service Bus Resources
3. Authentication and Authorization

Service Bus Messaging Basics

1. Queues vs Topics/Subscriptions
2. Message Structure and Properties
3. Sending and Receiving Messages

Advanced Messaging Features

1. Transactions and Atomic Operations
2. Sessions and Session Handling
3. Dead-Letter Queues and Message TTL

Service Bus Reliability and Scalability

1. Partitioning and Scaling Service Bus
2. Load Balancing and High Availability
3. Disaster Recovery Strategies

Service Bus Security

1. Authentication and Authorization Best Practices
2. Secure Transfer Protocols (HTTPS, AMQP, MQTT)
3. Network Isolation and Firewall Rules

Monitoring and Management

1. Monitoring Service Bus Metrics
2. Azure Monitor Integration
3. Alerts and Notifications

Integration with Azure Services

1. Azure Functions and Azure Service Bus Integration
2. Logic Apps and Service Bus Connectors
3. Event Grid and Service Bus Integration

Service Bus Best Practices

1. Designing for Scalability and Performance
2. Error Handling and Retry Strategies
3. Design Patterns for Message Processing

Hybrid Solutions with Azure Stack

1. Service Bus Integration with Azure Stack Hub
2. Hybrid Cloud Messaging Scenarios
3. Connecting On-premises Applications

Enterprise Integration Patterns (EIP)

1. Publish/Subscribe Messaging
2. Message Routing and Transformation
3. Competing Consumers and Load Balancing

Case Studies and Real-world Scenarios

1. Real-world Use Cases of Azure Service Bus
2. Case Studies of Service Bus Deployments
3. Lessons Learned and Optimization Tips