INFOSOFT IT SOLUTIONS

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AWS STEP FUNCTIONS

Introduction to AWS Step Functions

- Overview of serverless orchestration and AWS Step Functions
- Key concepts: state machines, tasks, and transitions
- Benefits and use cases of AWS Step Functions

Basic Concepts and Setup

- Creating and configuring a state machine in AWS Step Functions
- Defining states: Task, Choice, Parallel, and Wait states
- State input and output processing

Advanced State Machine Design

- Error handling and retries in AWS Step Functions
- Timeout management and state execution limits
- Lambda integration with Step Functions

Step Functions Workflow Automation

- Creating workflows for business processes
- Integration with other AWS services (e.g., S3, DynamoDB)
- Implementing complex workflows using Map and Pass states

Step Functions State Machine Deployment and Management

- Versioning and deploying state machines
- Using AWS CloudFormation for infrastructure as code
- Monitoring and logging with AWS CloudWatch

Step Functions Data Management

- Managing state machine input and output data
- Data transformation and manipulation using AWS Step Functions
- State machine execution history and data visualization

Security Best Practices

- IAM roles and permissions for Step Functions
- Encrypting state machine data at rest and in transit
- Compliance and regulatory considerations

Step Functions Integration Patterns

- Orchestrating microservices with Step Functions
- Integration with AWS Lambda for serverless workflows
- Event-driven architecture with Step Functions and Amazon EventBridge

Advanced Topics

- Step Functions and containerized applications (AWS Fargate, ECS)
- State machine execution metrics and performance optimization
- Implementing Step Functions in multi-region architectures