INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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AWS CLOUD FORMATION

Introduction to AWS CloudFormation

- Overview of AWS CloudFormation
- Key Features and Benefits
- Use Cases and Best Practices
- Understanding Infrastructure as Code (IaC)

CloudFormation Basics

- CloudFormation Templates
  - Template Anatomy
  - Template Sections: Parameters, Resources, Outputs, etc.
- CloudFormation Stacks
  - Creating and Managing Stacks
  - Stack Lifecycle and Operations

CloudFormation Template Design

- Writing YAML and JSON Templates
- Template Parameters and Conditions
- Using Mappings and Outputs
- Intrinsic Functions

Resources and Properties

- AWS Resource Types Supported by CloudFormation
- Defining and Configuring Resources
- Resource Dependencies
- Using Metadata and Deletion Policies

Stack Management and Updates

- Creating and Deleting Stacks
- Updating and Deleting Stacks
- Change Sets and Stack Policies
- Handling Stack Failures and Rollbacks
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Advanced CloudFormation Concepts

- Nested Stacks and Cross-Stack References
- AWS CloudFormation Macros
- Custom Resources
- Handling Stack Drift

CloudFormation with AWS Services

- Using CloudFormation with EC2, S3, RDS, VPC, etc.
- Automating AWS Service Deployments
- Managing IAM Roles and Policies with CloudFormation
- Integrating with AWS Lambda and Step

Monitoring and Troubleshooting

- CloudFormation Stack Events
- AWS CloudFormation Console and CLI
- Logging and Monitoring with CloudWatch
- Troubleshooting Common Issues

Security and Compliance

- AWS Identity and Access Management (IAM) Integration
- Managing Sensitive Data with Secrets Manager
- Compliance and Governance Best Practices
- Secure Template and Stack Management

Automation and DevOps

- Continuous Integration and Continuous Deployment (CI/CD) with CloudFormation
- Using AWS CodePipeline and CodeBuild
- Infrastructure Automation with AWS CloudFormation and AWS CLI
- Best Practices for DevOps with CloudFormation