

AWS MANAGEMENT SERVICES OVERVIEW



Management Tools

CloudWatch

CloudFormation

CloudTrail

Config

OpsWorks

Service Catalog

Trusted Advisor

Managed Services

Cloud Formation

Cloud Formation

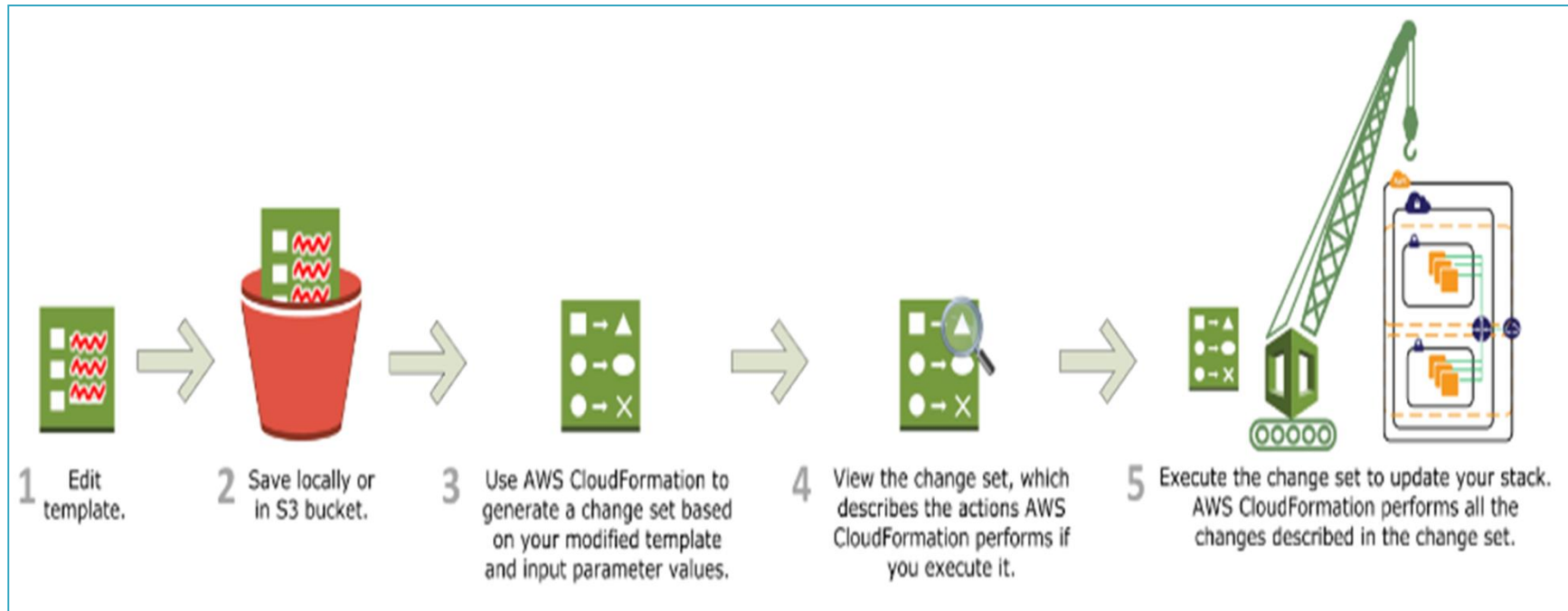
AWS CloudFormation enables you to create and provision AWS infrastructure deployments predictably and repeatedly.

- **Templates** – Blueprints for building AWS resources (JSON or YAML)
- **Stack** – Logical group of related resources to be managed as single unit
- **Change Sets** – Shows how changes might impact the running resources

Cloud Formation – Create Process



Cloud Formation – Update Process



Cloud Formation – Best Practices

Planning and organizing

- Organize Your Stacks By Lifecycle and Ownership
- Use Cross-Stack References to Export Shared Resources
- Use IAM to Control Access
- Reuse Templates to Replicate Stacks in Multiple Environments
- Verify Quotas for All Resource Types
- Use Nested Stacks to Reuse Common Template Patterns

Creating templates

- Do Not Embed Credentials in Your Templates
- Use AWS-Specific Parameter Types
- Use Parameter Constraints
- Use AWS::CloudFormation::Init to Deploy Software Applications on Amazon EC2 Instances
- Use the Latest Helper Scripts
- Validate Templates Before Using Them

Managing stacks

- Manage All Stack Resources Through AWS CloudFormation
- Create Change Sets Before Updating Your Stacks
- Use Stack Policies
- Use AWS CloudTrail to Log AWS CloudFormation Calls
- Use Code Reviews and Revision Controls to Manage Your Templates
- Update Your Amazon EC2 Linux Instances Regularly

AWS Other Services



Analytics

Athena
EMR
CloudSearch
Elasticsearch Service
Kinesis
Data Pipeline
QuickSight
AWS Glue



Artificial Intelligence

Lex
Amazon Polly
Rekognition
Machine Learning



Application Services

Step Functions
SWF
API Gateway
Elastic Transcoder



Internet Of Things

AWS IoT
AWS Greengrass



Business Productivity

WorkDocs
WorkMail
Amazon Chime



Mobile Services

Mobile Hub
Cognito
Device Farm
Mobile Analytics
Pinpoint



Game Development

Amazon GameLift



Contact Center

Amazon Connect

Thank You!