

Amazon CloudFormation

Automated provisioning and management of your AWS infrastructure

With AWS CloudFormation, you can create and update an entire environment, or manage multiple layers within an environment.

CloudFormation makes API calls to AWS services and resources that you specify in the template. Based on the definitions in the template, CloudFormation provisions, configures, deploys, scales, or monitors different components of your AWS infrastructure.

Concepts

- **Template:** A JSON or YAML-formatted text file where you describe AWS resources and their configurations.
- **Stack:** A collection of AWS resources that you specify in a template. When resources are organized into stacks, you create, update, or delete them as a single unit.
- **Change set:** A summary of proposed changes to the stack. If you want to update the stack, you can generate the summary before you apply the changes.

How it Works

AWS CloudFormation lets you model, provision, and manage AWS and third-party resources by treating infrastructure as code.



Use Cases

Automation Automate deployments of applications, configurations, and updates.	Disaster Recovery Recover the environment in case of a disaster.	Compliance and Security Enforce compliance and security policies.	Scaling Replicate infrastructure across multiple accounts and regions.	Monitoring Monitor when resources defined in a template change or stop meeting specific requirements.
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