

CloudFormation

- CloudFormation allows you to convert code into infrastructure.
- CloudFormation gives developers and system administrators an easy way to create and manage a collection of related AWS resources, provisioning and updating them in an orderly and predictable fashion.
- You don't need to figure out the order for provisioning AWS services. CloudFormation takes care of this for you.
- After the AWS resources are deployed, you can modify and update them in a controlled and predictable way, in effect applying version control to your AWS infrastructure the same way you do with your code.
- A CloudFormation Template is essentially an architectural diagram and a CloudFormation Stack is the end result of that diagram
- You create, update, and delete a collection of resources by creating, updating, and deleting stacks using CloudFormation templates.
- CloudFormation templates are in the JSON format or YAML.

A Sample Template

JSON

```
{  
  "Resources" : {  
    "HelloBucket" : {  
      "Type" : "AWS::S3::Bucket"  
    }  
  }  
}
```

YAML

```
Resources:  
  HelloBucket:  
    Type: AWS::S3::Bucket
```

Important points

- By default, the "automatic rollback on error" feature is enabled
- You are charged for rolled back infrastructure.
- CloudFormation is free