Cloud Formation

- ➢ It allows you to use a simple text file to model and provision, in an automated and secure manner, all the resources needed for your application across all regions and accounts.
- ➢ This file servers as the single source of truth for your cloud environment.
- ➢ It is available at no additional charge, and you pay only for the AWS resources needed to run your applications.
- ➢ It takes care of determining the right operations to perform when managing your stack and rolls back charges automatically if errors are detected.

Why AWS CloudFormation?

A complex application on AWS can have many resources and managing all these resources can be a mundane task.
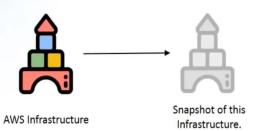
AWS CloudFormation

What is AWS CloudFormation?

AWS CloudFormation is a service that helps you model and set up your **Amazon Web Services** resources so that you can spend less time managing those resources and more time focusing on your applications that run in **AWS**.

AWS CloudFormation   AWS Infrastructure   Snapshot of this Infrastructure.

Get Started in AWS CloudFormation

For creating templates in AWS CloudFormation you use a JSON script.

JavaScript Object Notation is an open-standard format that uses human-readable text to transmit data objects consisting of attribute–value pairs.

Structure of JSON Document

AWS Template Format Version
Description
Metadata
Parameters
Mappings
Conditions
Outputs
Resources (The only section that is required)

LAMP Stack Demo

Let's see how we can install the LAMP package on EC2 using CloudFormation.