

AWS CloudFormation





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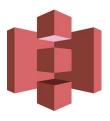






What is CloudFormation?

- Create-Delete-Modify one or few AWS resources
 - Easy 🗸
- Hundreds?

















What is CloudFormation?

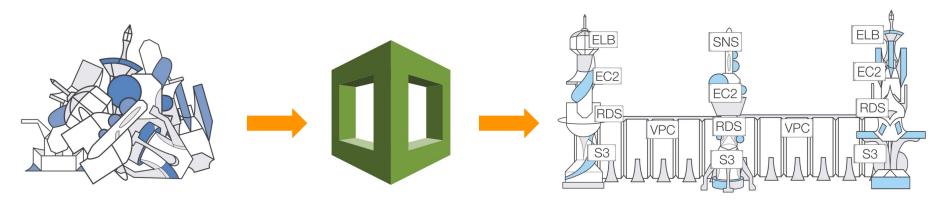


• CloudFormation is an AWS service which enables you to create, manage, configure, replicate and delete AWS resources easily and rapidly using templates.





What is CloudFormation?

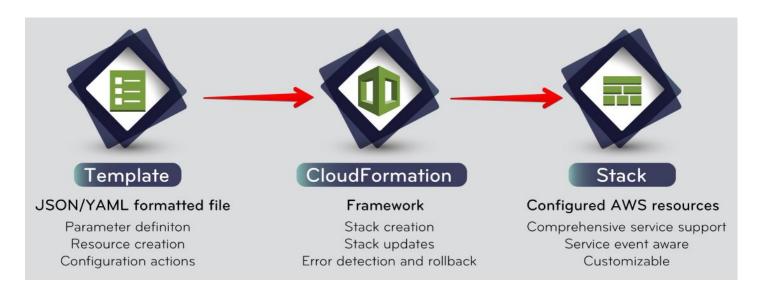


 Provisions and manages stacks of AWS resources based on templates you create to model your infrastructure architecture.





Templates and Stacks



Templates and Stacks are the main components of AWS CloudFormation.



Pricing





- You don't pay for using AWS CloudFormation.
- You pay for the resources you use.







What is a Template?

```
"AWSTemplateFormatVersion": "2010-09-09",
"Description" : "A simple EC2 instance",
"Resources" : {
  "MyEC2Instance" : {
    "Type": "AWS::EC2::Instance",
   "Properties" : {
      "ImageId" : "ami-0ff8a91507f77f867",
      "InstanceType" : "t1.micro"
```

 A template is a JSON or YAML formatted text file which you specify the AWS resources you want to create.



What is a Template?

- You create resources, define the parameters and configure your settings with templates.
- Templates can have the extensions .json, .yaml, .yml,
 .template, or .txt.



Structure

- Template Version
- Description
- Metadata
- Parameters
- Mappings
- Conditions
- Transform
- Resources

CLARUSWAY
WAY TO REINVENT YOURSELF

Outputs

```
"AWSTemplateFormatVersion": "version date",
"Description": "JSON string",
"Metadata" : {
  template metadata
},
"Parameters" : {
  set of parameters
},
"Mappings" : {
  set of mappings
"Conditions" : {
  set of conditions
},
"Transform" : {
  set of transforms
},
"Resources" : {
  set of resources
"Outputs" : {
  set of outputs
```





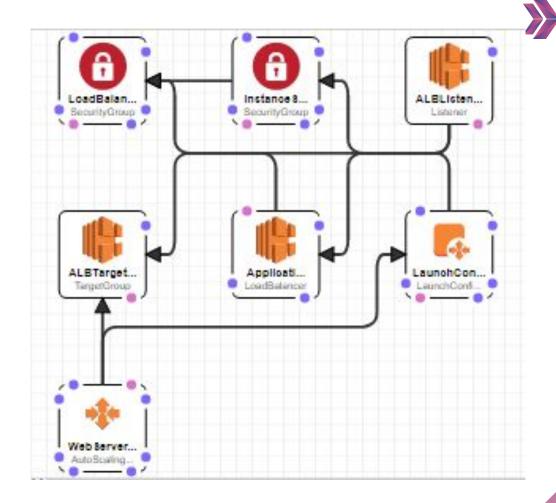
3 Stacks



Stacks

What is a Stack?

- A stack is a single unit composed of the AWS resources provisioned by CloudFormation.
- All of the resources in a stack are defined and configured by the related template.

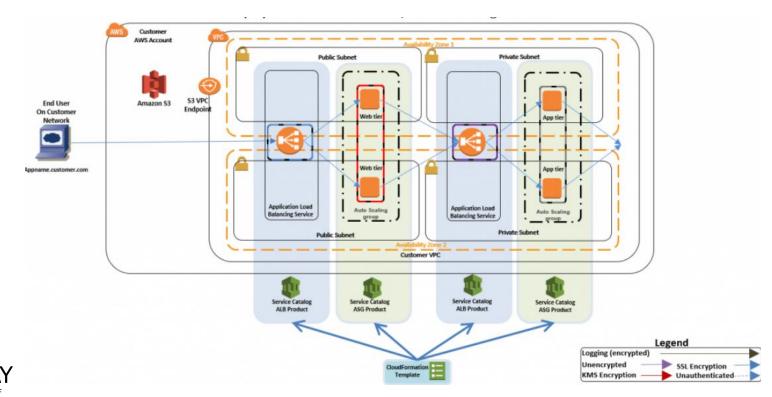




Stacks

What is a Stack?

A stack can be either a single EC2 instance or a very complex VPC.



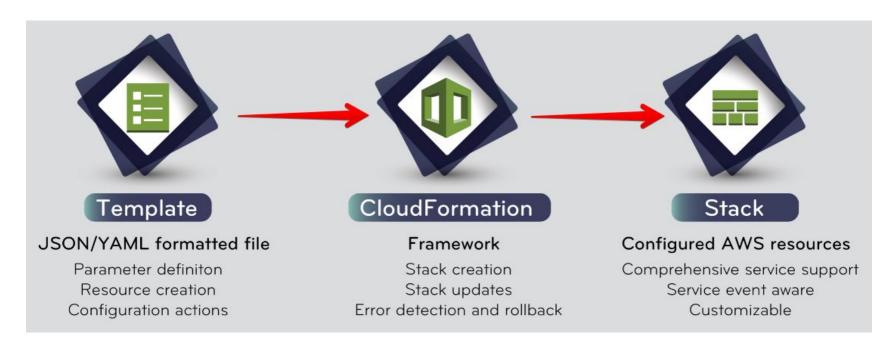


CloudFormation's Working Process



CloudFormation's Working Process

How does it work?





CloudFormation's Working Process

How does it work?





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THANKS! >

Any questions?

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