

AWS-CloudFormation

guile-intro-to-cloudformation

Training Clarusway

Pear Deck - January 27, 2022 at 10:49PM

Part 1 - Summary

Use this space to summarize your thoughts on the lesson

Part 2 - Responses

Slide 1

 **AWS
CloudFormation**

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Your Cloud Journey Starts Here



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- ▶ Introduction to CloudFormation
- ▶ Templates
- ▶ Stacks
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Introduction to CloudFormation

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► Introduction to CloudFormation

What is CloudFormation?

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



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► Introduction to CloudFormation

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.

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► Introduction to CloudFormation

What is CloudFormation?



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

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► Introduction to CloudFormation

Templates and Stacks



- Templates and Stacks are the main components of AWS CloudFormation.

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► Introduction to CloudFormation

Pricing



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

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2 ► Templates

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► Templates

What is a Template?

```
{
  "AWSTemplateFormatVersion": "2010-09-09",
  "Description": "A simple EC2 instance",
  "Resources": {
    "MyEC2Instance": {
      "Type": "AWS::EC2::Instance",
      "Properties": {
        "ImageId": "ami-0ffa9150f7f7f867",
        "InstanceType": "t1.micro"
      }
    }
  }
}
```

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

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► Templates

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**.

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▶ Templates

Structure

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

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```
{
  "ApiTemplateFormatVersion" : "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"
  }
}
```



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3 ▶ Stacks

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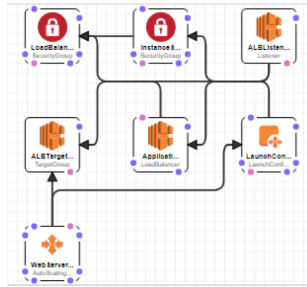
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Stacks

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**.



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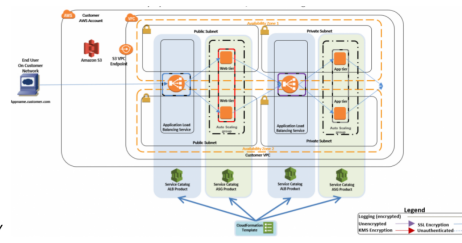
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Stacks

What is a Stack?

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



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4 CloudFormation's Working Process

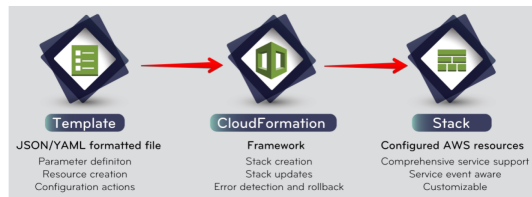
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► CloudFormation's Working Process

How does it work?



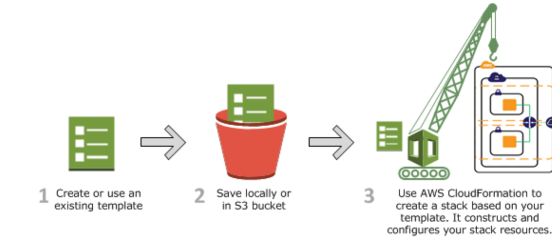
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► CloudFormation's Working Process

How does it work?



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THANKS!

Any questions?

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