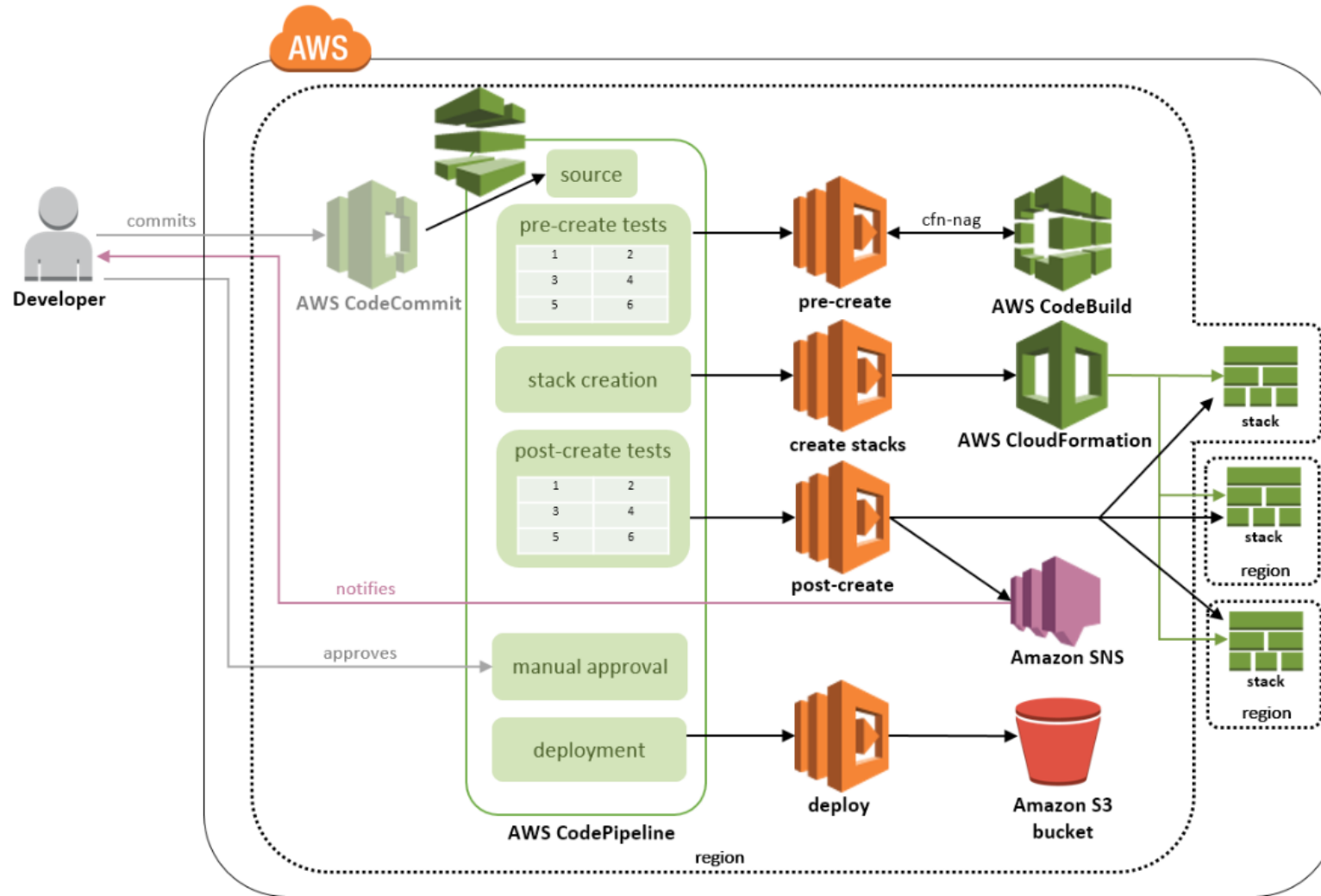


# AWS - CloudFormation

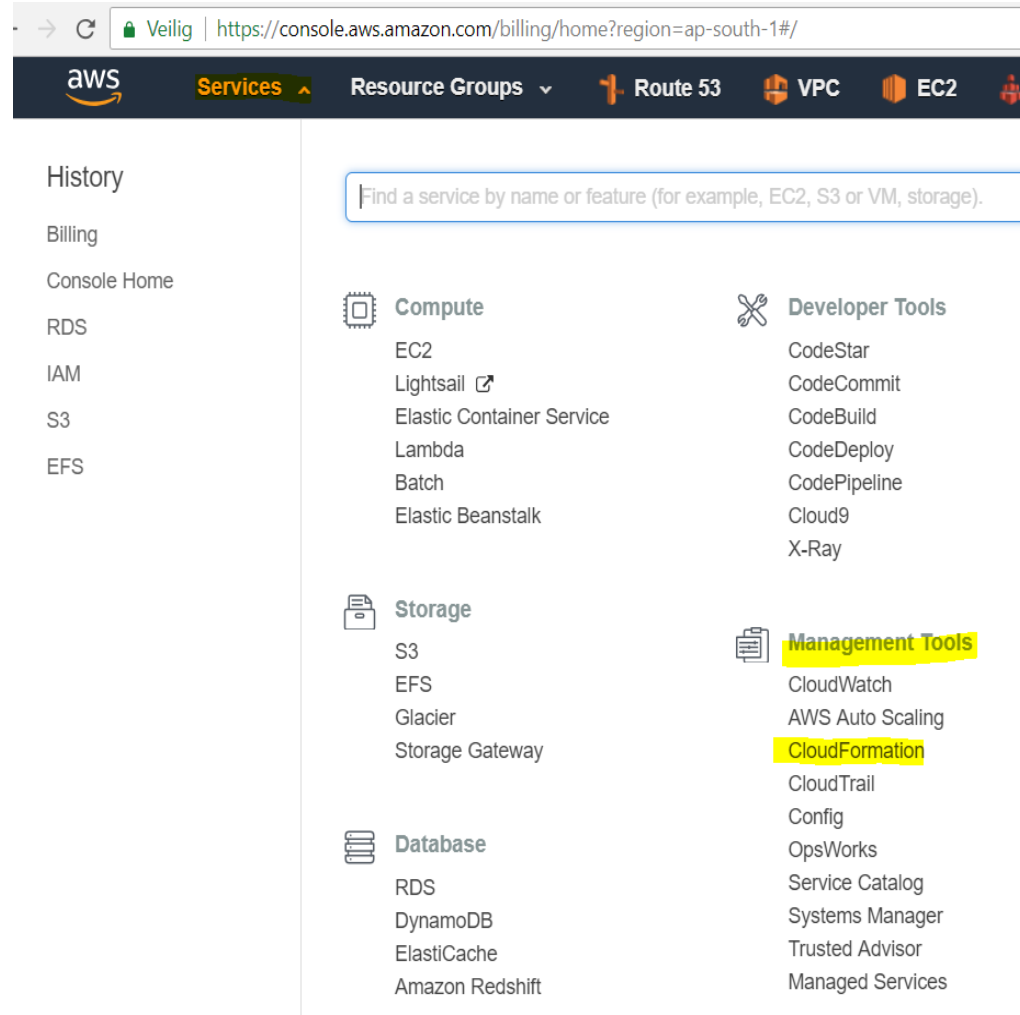
By

Keshav Kummari

# Building A Fault Tolerant Wordpress Site



# Go to Services >> Management Tools & Click on CloudFormation



### Create a stack

AWS CloudFormation allows you to quickly and easily deploy your infrastructure resources and applications on AWS. You can use one of the templates we provide to get started quickly with applications like WordPress or Drupal, one of the many sample templates or create your own template.

You do not currently have any stacks. Choose **Create new stack** below to create a new AWS CloudFormation stack.

[Create new stack](#)

# Click on Create Stack & Select WordPress Blog

## Create stack

### Select Template

Specify Details

Options

Review

### Select Template

Select the template that describes the stack that you want to create. A stack is a group of related resources that you manage as a single unit.

#### Design a template

Use AWS CloudFormation Designer to create or modify an existing template. [Learn more.](#)

Design template

#### Choose a template

A template is a JSON/YAML-formatted text file that describes your stack's resources and their properties. [Learn more.](#)

☒ Select a sample template

#### Single Instance Samples

LAMP Stack  
Ruby on Rails Stack  
WordPress blog

#### Multi-AZ Samples

LAMP Stack  
Ruby on Rails Stack

#### WordPress blog

#### Windows Samples

Windows features and roles  
Windows Active Directory

#### Tools

CloudFormer

Click on “**View/Edit template in Designer**” & close it

→ ↻ Veilig | <https://ap-south-1.console.aws.amazon.com/cloudformation/designer/home?region=ap-south-1&templateUrl=https://s3.ap-south-1.amazonaws.com/cloudformation-templates-ap-s>

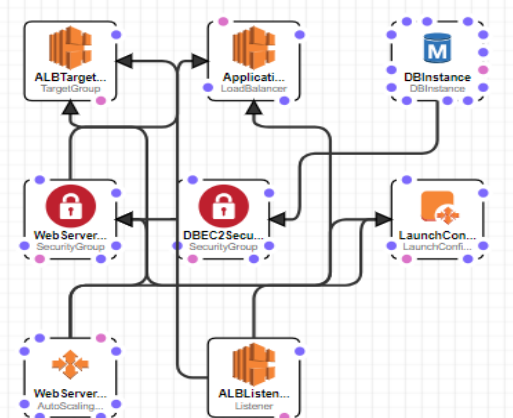
aws Services ▾ Resource Groups ▾ Route 53 VPC EC2 EFS S3 IAM RDS AWS\_DevOps\_KK ▾


Close


**Resource types**

- ApiGateway
- ApplicationAutoScaling
- AutoScaling
- CertificateManager
- CloudFormation
- CloudFront
- CloudTrail
- CloudWatch
- CodeDeploy
- CodePipeline
- Config
- DMS

File: 'template1'



template1 

Choose template language: ☒ JSON ☐ YAML 

```
1 {
2   "AWSTemplateFormatVersion": "2010-09-09",
3   "Description": "AWS CloudFormation Sample Template WordPress_Multi_AZ: WordPress is web software you can use to create a beautiful website or blog. This template insta
4   "Parameters": {
5     "VpcId": {
6       "Type": "AWS::EC2::VPC::Id",
7       "Description": "VpcId of your existing Virtual Private Cloud (VPC)",
8       "ConstraintDescription": "must be the VPC Id of an existing Virtual Private Cloud."
9     },
10    "Subnets": {
11
```

Components **Template**

# Fill the details

→ ↻ Veilig | <https://ap-south-1.console.aws.amazon.com/cloudformation/home?region=ap-south-1#/stacks/new>

CloudFormation ▾ Stacks > Create Stack

## Create stack

[Select Template](#)

**Specify Details**

[Options](#)

[Review](#)

### Specify Details

Specify a stack name and parameter values. You can use or change the default parameter values, which are defined in the AWS CloudFormation template. [Learn more.](#)

Stack name

### Parameters

DBAllocatedStorage	<input type="text" value="5"/>	The size of the database (Gb)
DBClass	<input type="text" value="db.t2.small"/>	Database instance class
DBName	<input type="text" value="onlineucator"/>	The WordPress database name
DBPassword	<input type="password" value="....."/>	The WordPress database admin account password
DBUser	<input type="password" value="....."/>	The WordPress database admin account username
InstanceType	<input type="text" value="t2.small"/>	WebServer EC2 instance type

# Click on “Next”

<https://ap-south-1.console.aws.amazon.com/cloudformation/home?region=ap-south-1#/stacks/new>

DBName	<input type="text" value="onlineucator"/>	The WordPress database name
DBPassword	<input type="password" value="....."/>	The WordPress database admin account password
DBUser	<input type="password" value="....."/>	The WordPress database admin account username
InstanceType	<input type="text" value="t2.small"/>	WebServer EC2 instance type
KeyName	<input type="text" value="aws-Server0"/>	Name of an existing EC2 KeyPair to enable SSH access to the instances
MultiAZDatabase	<input type="text" value="false"/>	Create a Multi-AZ MySQL Amazon RDS database instance
SSHLocation	<input type="text" value="0.0.0.0/0"/>	The IP address range that can be used to SSH to the EC2 instances
Subnets	<input type="text" value="subnet-240f804c (172.31.16.0/20) x subnet-9d19e6d1 (172.31.0.0/20) x"/>	The list of SubnetIds in your Virtual Private Cloud (VPC)
VpcId	<input type="text" value="vpc-38a52f50 (172.31.0.0/16)"/>	VpcId of your existing Virtual Private Cloud (VPC)
WebServerCapacity	<input type="text" value="1"/>	The initial number of WebServer instances

[Cancel](#) [Previous](#) [Next](#)

# Do not Add anything, just click Next

CloudFormation

Stacks > Create Stack

Create stack

Select Template

Specify Details

Options

Review

Options

Tags

Permissions

Rollback Triggers

You can specify tags (key-value pairs) for resources in your stack. You can add up to 50 unique key-value pairs for each stack. [Learn more.](#)

	Key (127 characters maximum)	Value (255 characters maximum)	
1	<input type="text"/>	<input type="text"/>	<input data-bbox="2305 678 2356 706" type="button" value="+"/>

You can choose an IAM role that CloudFormation uses to create, modify, or delete resources in the stack. If you don't choose a role, CloudFormation uses the permissions defined in your account. [Learn more.](#)

IAM Role

Choose a role (optional)

Enter role arn

Rollback triggers enable you to have AWS CloudFormation monitor the state of your application during stack creation and updating, and to rollback that operation if the application breaches the threshold of any of the alarms you've specified. [Learn more](#)



# Review & Click on Create

## Create stack

Select Template

Specify Details

Options

Review

## Review











### Template


Template URL	<a href="https://s3.ap-south-1.amazonaws.com/cloudformation-templates-ap-south-1/WordPress_Multi_AZ.template">https://s3.ap-south-1.amazonaws.com/cloudformation-templates-ap-south-1/WordPress_Multi_AZ.template</a>
Description	AWS CloudFormation Sample Template WordPress_Multi_AZ: WordPress is web software you can use to create a beautiful website or blog. This template installs a highly-available, scalable WordPress deployment using a multi-az Amazon RDS database instance for storage. It demonstrates using the AWS CloudFormation bootstrap scripts to deploy WordPress. <b>**WARNING**</b> This template creates an Amazon EC2 instance, an Application Load Balancer and an Amazon RDS database instance. You will be billed for the AWS resources used if you create a stack from this template.
Estimate cost	<a href="#">Cost</a>

### Details

Stack name:	MyProdWordPressSite
DBAllocatedStorage	5
DBClass	db.t2.small
DBName	onlineucator
DBPassword	.....
DBUser	.....
InstanceType	t2.small
KeyName	aws-Server0
MultiAZDatabase	false
SSHLocation	0.0.0.0/0
Subnets	subnet-240f804c,subnet-9d19e6d1
VpcId	vpc-38a52f50
WebServerCapacity	1

# Stack has been created!

 **Services** ▾ **Resource Groups** ▾  **Route 53**  **VPC**  **EC2**  **EFS**  **S3**  **IAM**  **RDS**   **AWS\_DevOps\_KK** ▾ **Mumbai** ▾ **Support** ▾

 **CloudFormation** ▾ **Stacks**

Create Stack ▾

Actions ▾

Design template

↺ ⚙

Filter: **Active** ▾

By Stack Name

Showing 1 stack

	Stack Name	Created Time	Status	Description
<input checked="" type="checkbox"/>	MyProdWordPressSite	2018-05-01 13:59:20 UTC+0200	CREATE_IN_PROGRE...	AWS CloudFormation Sample Template WordPress_Multi_AZ: WordPress is web software you can use ...

Overview

Outputs

Resources

**Events**

Template

Parameters

Tags

Stack Policy

Change Sets

Rollback Triggers

⌵ ⌵ ⌵

Filter by: **Status** ▾

Search events

2018-05-01	Status	Type	Logical ID	Status Reason
▾ 13:59:20 UTC+0200	CREATE_IN_PROGRESS	AWS::CloudFormation::Stack	MyProdWordPressSite	User Initiated
Physical ID: arn:aws:cloudformation:ap-south-1:631258978605:stack/MyProdWordPressSite/15229c90-4d37-11e8-95c1-50faf30198ba				
Client Request Token: Console-CreateStack-eae90f38-9c87-4d65-985d-b5a0732678e4				