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|--|---|
|  | This is SOP (Standard Operation Procedure) Wordpress CM with Ansible Playbook and CloudFormation Templates. |
|--|---|

Revision History

| Date       | Version | Changed Sections | Author        | Approver |
|------------|---------|------------------|---------------|----------|
| 11/19/2017 | 1.0     | Created          | Samal Dimdung |          |
|            |         |                  |               |          |

Document Controller Number

| Document Reference | Project |
|--------------------|---------|
|                    |         |

# 1 Purpose

The purpose of the document is to provide guidance on how to use the CloudFormation template to create Wordpress CM single servers using Ansible Playbook and CloudFormation Templates.

## 2 Tools Required

| Tool Name          | Tool Location | Tool Description  |
|--------------------|---------------|---|
| AWS Console Access | AWs Account   | AWS Console can be used to run CloudFormation Templates   |
|                    |               | AWS CLI or AWS SDK can be used if you don't want to use AWs Console to run the CloudFormation Templates |
|                    |               |   |

### 3 Associated Documents

The follow documents are associated with the Standard Operating Procedure and are required in order to complete it. For Google Docs/Wiki please type the document name and apply hyper link to google doc.

[illegible]

## 4 Assumptions

The individuals reading this document are assumed to already have worked AWS Environments and have knowledge/certification of AWS sysOps or Developer.

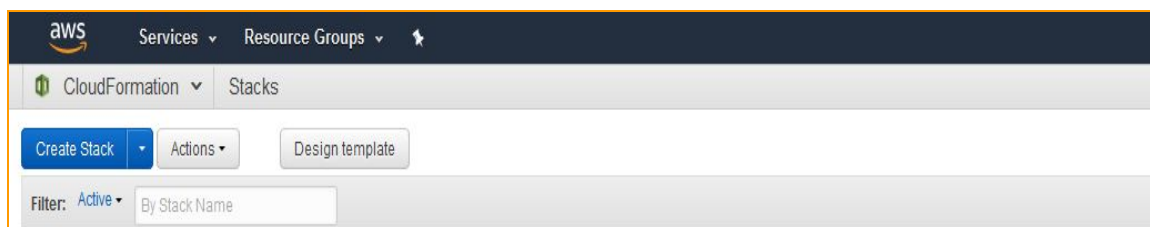
## 5 List of Resources will be created

| Numbers | Resource Name      | Description                                     |
|---------|--------------------|---|
| 1       | WordPress Instance | Fully functioning Wordpress CM will be created. |
|         |                    |   |
|         |                    |   |
|         |                    |   |
|         |                    |   |
|         |                    |   |
|         |                    |   |
|         |                    |   |

## 6 Produrre

### 6.1 Creating Wordpres CM Using CloudFormation Templates

1. Download the CloudFormation Templates on your Local Workstation or CM servers from Github or S3. You can make Nested templates and run the all the CloudFormation Templates to create Security group along with VPC creation time but here I'm doing each CloudFormation Templates separately.
2. Create Stack



### 3. Browse

The screenshot shows the 'Create Stack' wizard in the AWS Management Console. The 'Select Template' step is active. It provides instructions on how to choose a template and offers three options: 'Design a template', 'Choose a template', and 'Specify an Amazon S3 template URL'. The 'Choose a template' option is selected, and the 'Browse...' button is highlighted with a yellow box.

**Create stack**

**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.](#)

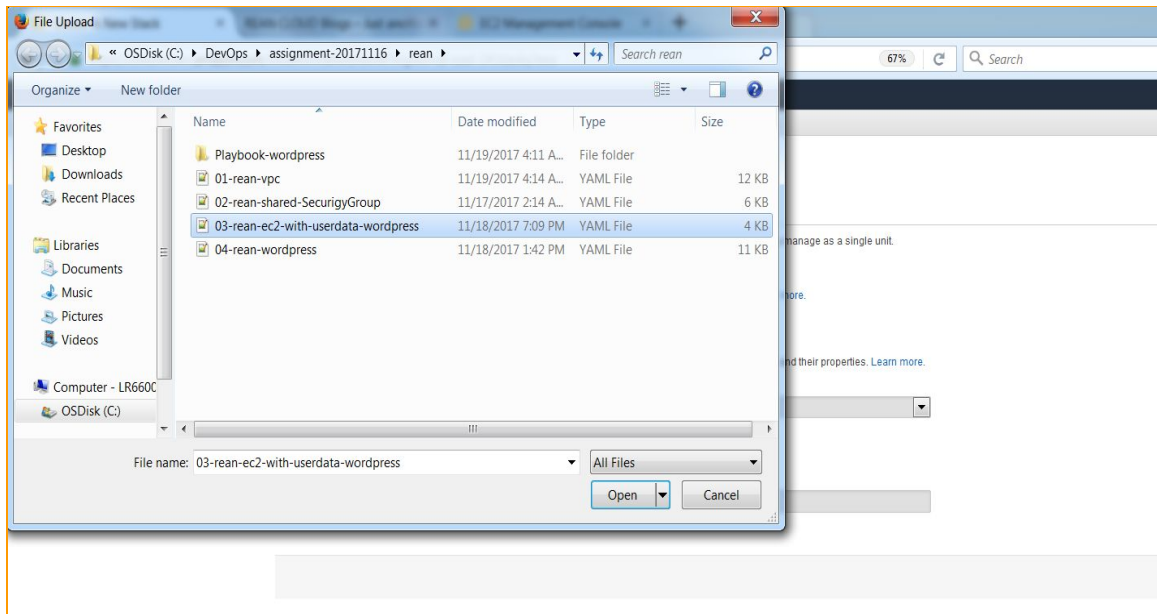
**Choose a template** A template is a JSON/YAML-formatted text file that describes your stack's resources and their properties. [Learn more.](#)

☒ Select a sample template

☐ Upload a template to Amazon S3 **Browse...** No file selected.

☐ Specify an Amazon S3 template URL

### 4. Select the Templates > Open



## 5. Alter the Value as your needs and Click Next

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

|                   |  |   |
|-------------------|--|---|
| BaseAMI           | <input type="text" value="ami-c998b5b2"/>                          | Base AMI to be used for All the Build                       |
| CostCenterTag     | <input type="text" value="DevOps-108"/>                            | Value for the Cost Center Tags                              |
| CreatorTag        | <input type="text" value="Samal Dimdung"/>                         | Value for the Creator Tag                                   |
| EnvironmentName   | <input type="text" value="Mgmt"/>                                  | An environment name that will be prefixed to resource names |
| POCTag            | <input type="text" value="Nick Martinelli"/>                       | Value for the Point of Contact                              |
| SecurityLevelTag  | <input type="text" value="HIPAA"/>                                 | Enter the Value of Security Level (AWS Cloud Compliance)    |
| SSHKeyName        | <input type="text" value="kp-rean-dimdung"/>                       | Name of an existing key, used for SSH login.                |
| TenantTag         | <input type="text" value="Rean-Cloud"/>                            | Enter the Tenant Name                                       |
| VpcId             | <input type="text" value="vpc-c9d3bb5 (172.31.0.0/16)"/>           | VPC to use.   |
| WpInstanceType    | <input type="text" value="t2.micro"/>                              | Instance type for CDX Engine Provisioning MySQL db server   |
| WpSecurityGroupId | <input type="text" value="CF-Shared-Security-WebSecurityGrou..."/> | Security Group ID for access from Management (i.e. JumpBox) |
| WpSubnet          | <input type="text" value="subnet-f880819d (172.31.0.0/20) (Web)"/> | Subnet to be used   |

## 6. Leave blank in Options and Click Next ( You can configure Advance if you like to but I'm leaving blank for this demo)

CloudFormation > Stacks > Create Stack

Create stack

[Select Template](#)  
[Specify Details](#)  
[Options](#)  
[Review](#)

### Options

#### Tags

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"/>           |

#### Permissions

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

Enter role arn

Advanced

You can set additional options for your stack, like notification options and a stack policy. [Learn more.](#)

7. Review and Make sure all the Parameter you passed is correct and Click Next.

Create stack

Selected Template  
Specify Details  
Options  
Review

Review

Template

Template URL: <https://s3-external-1.amazonaws.com/cf-templates-c1nap07ey89a-us-east-1/2017324M6Y-03-rean-ec2-with-userdata-wordpress.yaml>  
Description: this template creates EC2 instances and pull the code from the Githubrepo and configure WordPress  
Estimate cost: Cost

Details

Stack name: cf-wordpress-ansible

BaseAMI: ami-c986b6b2  
CostCenterTag: DevOps-108  
CreatorTag: Samal Dimdung  
EnvironmentName: Mgmt  
POCTag: Nick Martinelli  
SecurityLevelTag: HIPAA  
SSHKeyName: kp-rean-dimdung  
TenantTag: Rean-Cloud  
VpcId: vpc-cd9d3bb5  
WpInstanceType: t2.micro  
WpSecurityGroupId: sg-ea87b9b  
WpSubnet: subnet-4880b19d

Options

Tags  
No tags provided

Advanced

Notification: Disabled  
Termination Protection: Disabled  
Timeout: none  
Rollback on failure: Yes

8. Once it completed you can see below details

CloudFormation Stacks

Create Stack Actions Design template

Filter: Active By Stack Name

| Stack Name   | Created Time                 | Status          | Description   |
|--|------------------------------|-----------------|---|
| <input checked="" type="checkbox"/> cf-wordpress-ansible | 2017-11-19 22:56:39 UTC-0500 | CREATE_COMPLETE | this template creates EC2 instances and pull the code from the Githubrepo and configure WordPress                 |
| <input type="checkbox"/> CF-Shared-Security              | 2017-11-19 21:53:59 UTC-0500 | CREATE_COMPLETE | This template creates the Shared Security group for All the Tier i.e ELB, Web, App and Dbs for Rean-Cloud Clients |

Overview Outputs Resources Events Template Parameters Tags Stack Policy Change Sets

| Key        | Value   | Description       |
|------------|---|-------------------|
| WebsiteURL | <a href="http://ec2-34-235-150-21.compute-1.amazonaws.com">http://ec2-34-235-150-21.compute-1.amazonaws.com</a> | WordPress Website |

9. Click on output URL of above screenshot, you will be taken to this pages and end user can create login credentials himself and start using this Wordpress servers

ec2-34-235-150-21.compute-1.amazonaws.com/wp-admin/install.php

WordPress

English (United States)  
العربية  
العربية المغربية  
Azerbaycan dili  
گۆنئی آذربایجان  
Беларуская мова  
Български  
বাংলা  
Български  
Bosanski  
Català  
Cebuano  
Čeština  
Cymraeg  
Dansk  
Deutsch (Schweiz, Du)  
Deutsch (Schweiz)  
Deutsch  
Deutsch (Sie)  
Ελληνικά

Continue

ec2-34-205-135-221.compute-1.amazonaws.com/wordpress/wp-admin/install.php

## Welcome

Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

### Information needed

Please provide the following information. Don't worry, you can always change these settings later.

**Site Title** REAN CLOUD Blogs

**Username** dimdung  
Username can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.

**Password** test1234 Very weak [Hide](#)

**Confirm Password** ☒ Confirm use of weak password

**Your Email** dimdung@xyz.com  
Double-check your email address before continuing.

**Search Engine Visibility** ☐ Discourage search engines from indexing this site  
It is up to search engines to honor this request.

[Install WordPress](#)

10. You can login now using your user/credentials

ec2-34-205-135-221.compute-1.amazonaws.com/wordpress/wp-login.php

## Username or Email Address

dimdung

Password

☐ Remember Me [Log In](#)

[Lost your password?](#)

[Back to REAN CLOUD Blogs](#)

11. Now you if you go the URL you will see

REAN CLOUD Blogs

## Dashboard

Welcome to WordPress!  
We've assembled some links to get you started:

**Get Started**

[Customize Your Site](#)

or, change your theme completely

**Next Steps**

- [Write your first blog post](#)
- [Add an About page](#)
- [View your site](#)

**More Actions**

- [Manage widgets or menus](#)
- [Turn comments on or off](#)
- [Learn more about getting started](#)

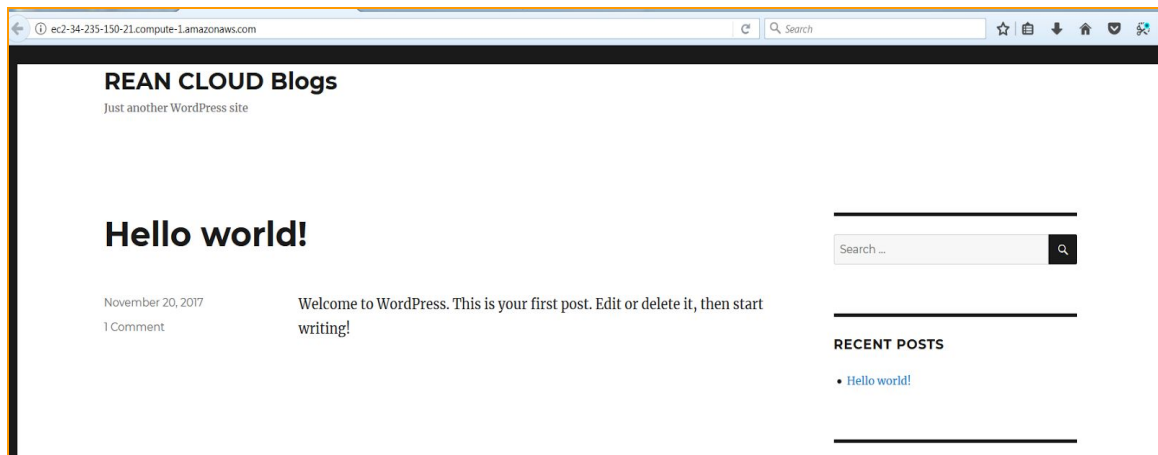
**At a Glance**

1 Post 1 Page

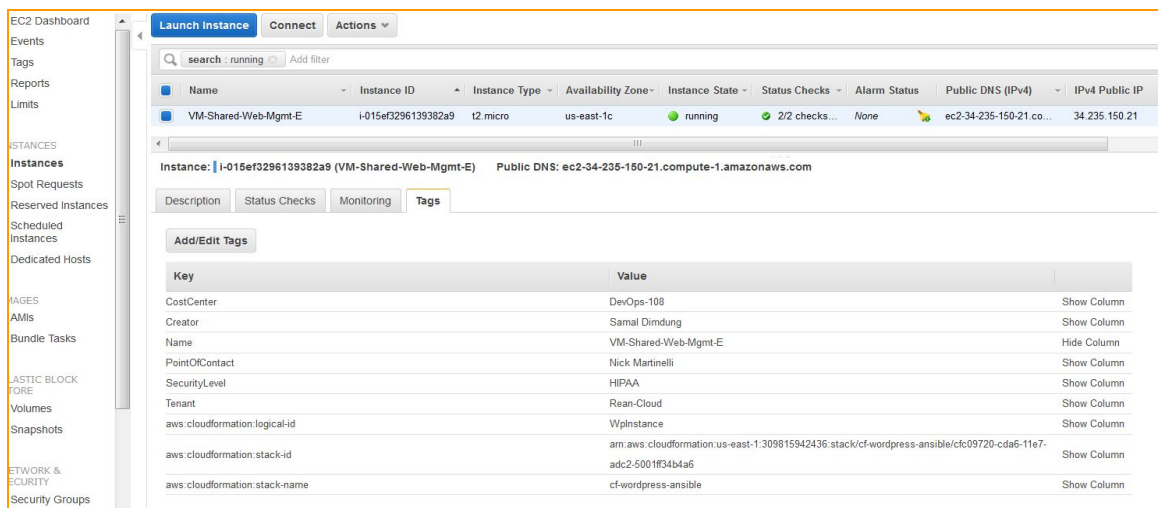
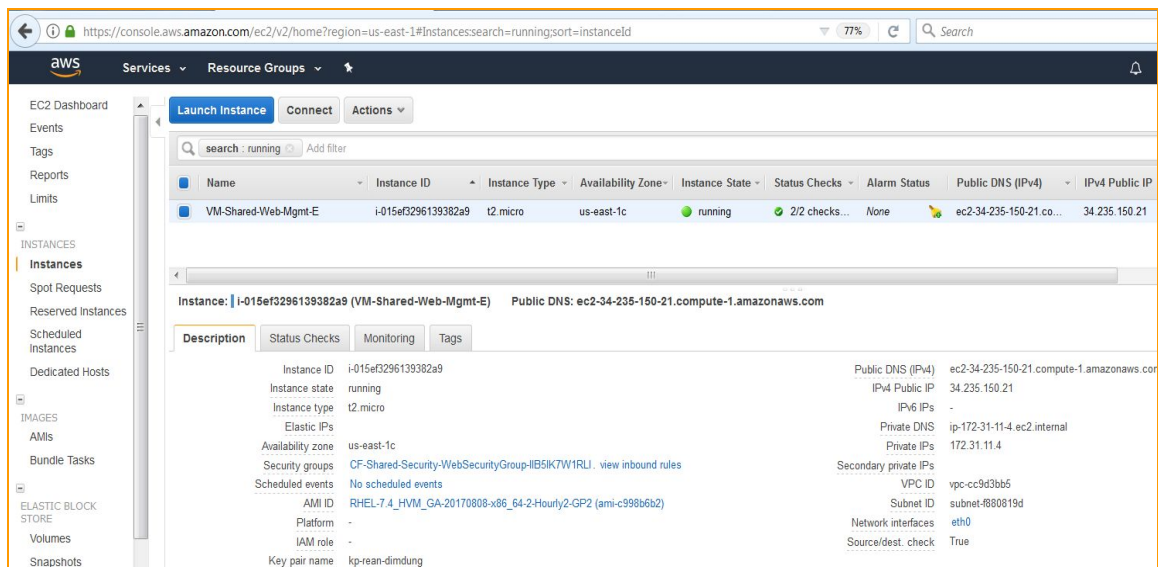
**Quick Draft**

Title

12. Go back to the URL you will Rean Cloud Blogs ..



13. If you go the AWS Console, ec2 Dashboard > Instances . The Cool things is the VM-Shared-WordPress-CM instances has been tags.





14. Done, now you can start using ..