

	This is SOP (Standard Operation Procedure) Wordpress CM with CloudFormation Templates.
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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 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.

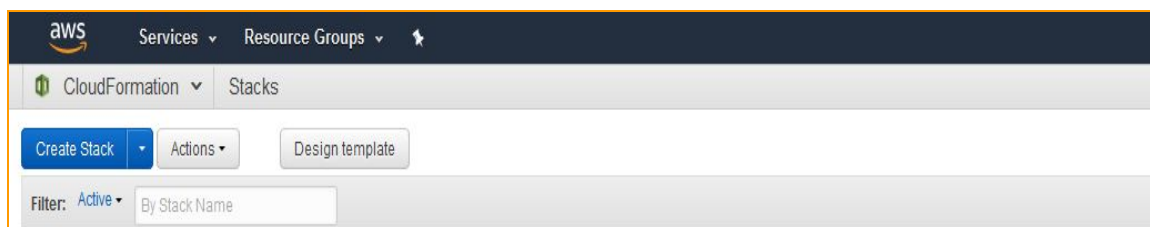
5 List of Resources will be created

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

6 Produrre

6.1 Creating Wordpres CM Using CloudFormation Templates

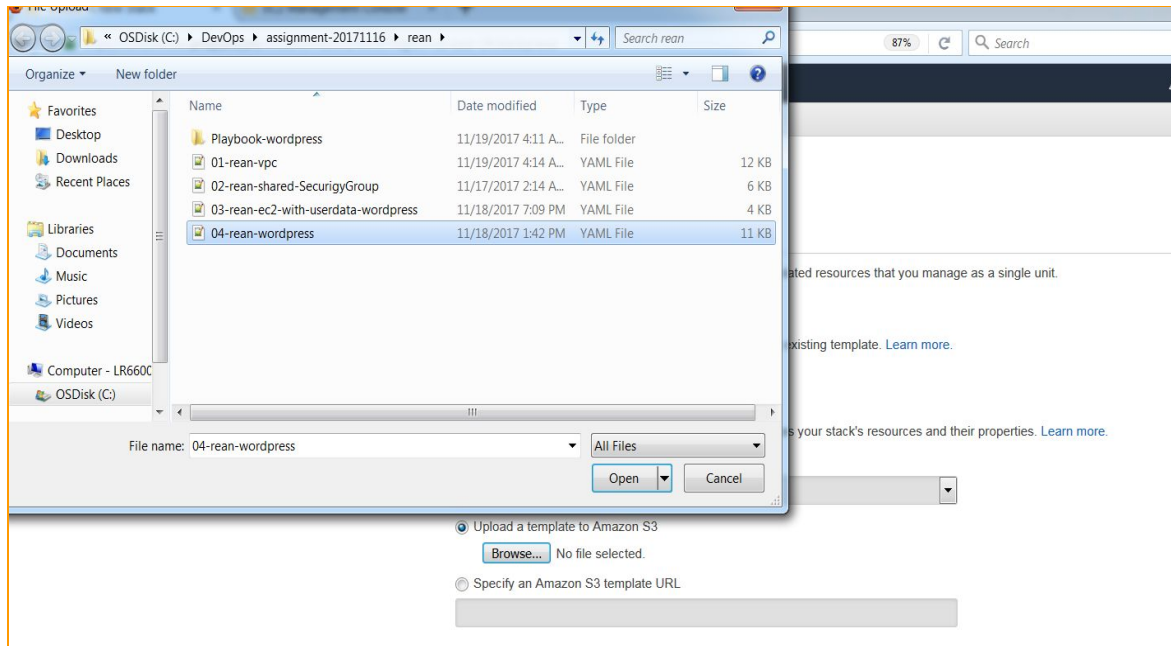
1. Download the CloudFormation Templates on your Local Workstation or CM servers from Github or S3. You can make Nested templates and run the all the CloudFormation Templates to create Security group along with VPC creation time but here I'm doing each CloudFormation Templates separately.
2. Create Stack



3. Browse

The screenshot shows the 'Create Stack' wizard in the AWS Management Console. The 'Select Template' step is active. On the left, a sidebar lists the steps: 'Select Template', 'Specify Details', 'Options', and 'Review'. The main content area is titled 'Select Template' and includes a description: '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.' There are three options for selecting a template: 'Design a template' (with a 'Design template' button), 'Choose a template' (selected), and 'Specify an Amazon S3 template URL'. Under 'Choose a template', there are three radio buttons: 'Select a sample template' (selected), 'Upload a template to Amazon S3' (with a 'Browse...' button), and 'Specify an Amazon S3 template URL' (with a text input field). The 'Browse...' button is highlighted with a yellow box.

4. Select the Templates > Open



5. Alter the Value as your needs and Click Next

The screenshot shows the 'Specify Details' step of the AWS CloudFormation console. The left sidebar has tabs for 'Select Template', 'Specify Details' (active), 'Options', and 'Review'. The main area is titled 'Specify Details' and contains a description: '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.](#)'

Below the description is the 'Stack name' field, which contains the value 'cf-rean-wp-samal'.

Below the stack name is the 'Parameters' section, which contains a list of parameters with their respective values and descriptions:

- CostCenterTag**: DevOps-108 (Value for the Cost Center tag)
- CreatorTag**: Samal Dimdung (Value for the Creator tag)
- DBName**: wordpressdb (The WordPress database name)
- DBPassword**: [Redacted] (The WordPress database admin account password)
- DBRootPassword**: [Redacted] (MySQL root password)
- DBUser**: [Redacted] (The WordPress database admin account username)
- EnvironmentTag**: Mgmt (Value for the Environment tag)
- InstanceType**: t2.micro (WebServer EC2 instance type)
- KeyName**: kp-rean-dimdung (Name of an existing EC2 KeyPair to enable SSH access to the instances)
- POCTag**: Nick Martinelli (Value for the Point of Contact tag)
- SecurityLevelTag**: HIPAA (Value for the Security tag)
- SSHLocation**: 0.0.0.0/0 (The IP address range that can be used to SSH to the EC2 instances)
- SubnetId**: subnet-df801794 (10.108.10.0/24) (Mgmt) (Subnet to use)
- TenantTag**: Rean-Cloud (Value for the Tenant tag)
- VpcId**: vpc-c5ed7abd (10.108.0.0/16) (Mgmt) (VPC to use)

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

The screenshot shows the 'Options' step of the AWS CloudFormation console. The left sidebar has tabs for 'Select Template', 'Specify Details', 'Options' (active), and 'Review'. The main area is titled 'Options' and contains a description: '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.](#)'

Below the description is the 'Tags' section, which contains a table with two columns: 'Key (127 characters maximum)' and 'Value (255 characters maximum)'. The table has one row with the number '1' in the first column and empty input fields in the second column.

Below the tags section is the 'Permissions' section, which contains a description: '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.](#)'

Below the permissions section is the 'IAM Role' section, which contains a dropdown menu with the text 'Choose a role (optional)' and a text input field with the text 'Enter role arn'.

Below the IAM Role section is the 'Advanced' section, which contains a description: '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

Select Template
Specify Details
Options
Review

Review

Template

Template URL: <https://s3-external-1.amazonaws.com/cf-templates-1bvm05i8jwz-us-east-1/2017324sa7-04-rean-wordpress.yaml>
 Description: Launch a new Wordpress machine with CloudFormation for REAN Cloud
 Estimate cost: Cost

Details

Stack name: cf-rean-wp-samal
 CostCenterTag: DevOps-108
 CreatorTag: Samal Dimdung
 DBName: wordpressdb
 DBPassword:
 DBRootPassword:
 DBUser:
 EnvironmentTag: Mgmt
 InstanceType: t2.micro
 KeyName: kp-rean-dimdung
 POCtag: Nick Martinelli
 SecurityLevelTag: HIPAA
 SSHLocation: 0.0.0.0/0
 SubnetId: subnet-d901794
 TenantTag: Rean-Cloud
 VpcId: vpc-c5e47abd

Options

Tags

No tags provided

Advanced

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

8. Once it completed you can see below details

aws

Services

Resource Groups

CloudFormation

Stacks

Create Stack

Actions

Design template

Filter: Active

By Stack Name

Stack Name	Created Time	Status	Description
<input checked="" type="checkbox"/> cf-wordpress-reancloud	2017-11-19 22:27:22 UTC-0500	CREATE_COMPLETE	Launch a new Wordpress machine with CloudFormation for REAN Cloud
<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 1 Le ELB, Web, App and Dbs for Rean-Cloud Clients

Overview

Outputs

Resources

Events

Template

Parameters

Tags

Stack Policy

Change Sets

Key	Value	Description	Export Name
WebsiteURL	http://ec2-34-205-135-221.compute-1.amazonaws.com/wordpress	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

ec2-34-205-135-221.compute-1.amazonaws.com/wordpress/wp-admin/install.php 90%

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
 Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.

Password: test1234
 Very weak
 Important: You will need this password to log in. Please store it in a secure location.

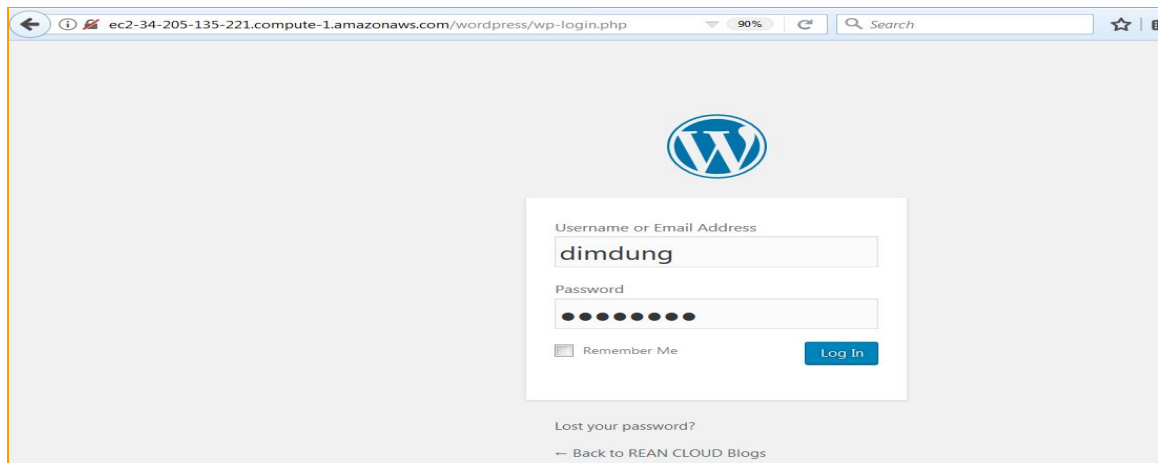
Confirm Password: ☒ Confirm use of weak password

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

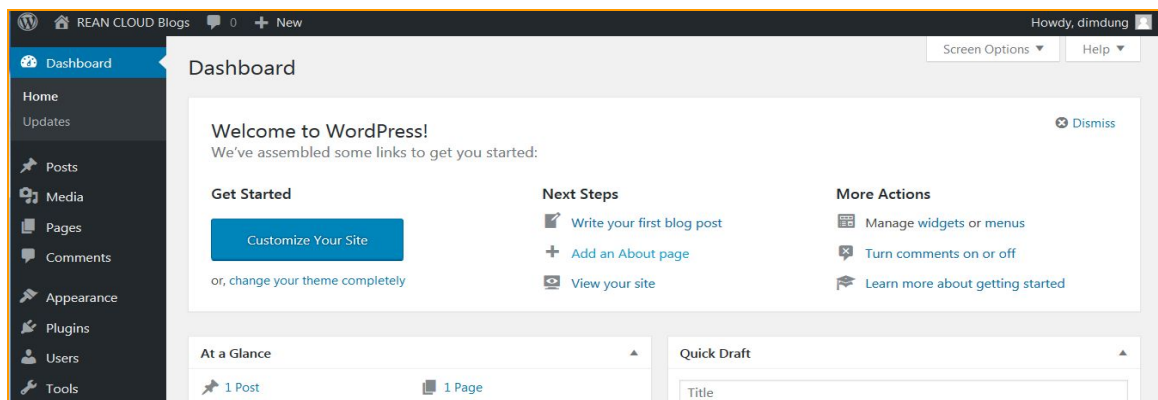
Search Engine Visibility: ☐ Discourage search engines from indexing this site
 It is up to search engines to honor this request.

Install WordPress

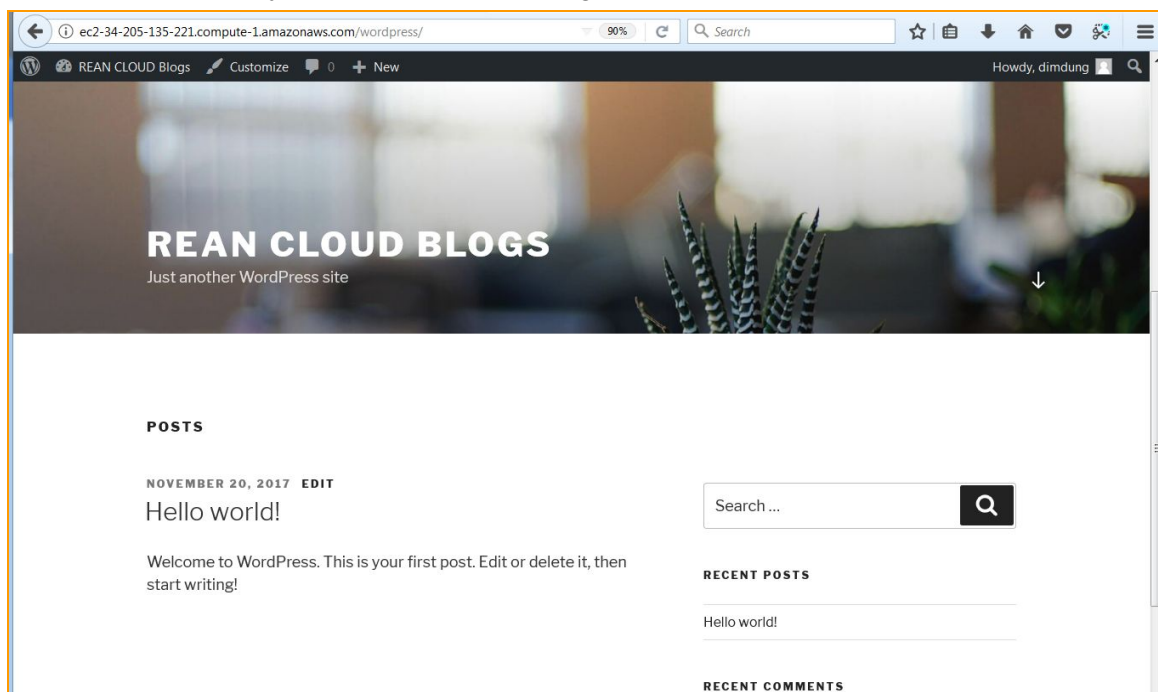
10. You can login now using your user/credentials



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



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.

The screenshot shows the AWS Management Console interface for an EC2 instance. The instance is named 'VM-Shared-WordPress-CM' with ID 'i-037e68cabbda7b558'. It is a t2.micro instance in the us-east-1c availability zone, currently in a 'running' state. The public DNS is 'ec2-34-205-135-221.compute-1.amazonaws.com'. The instance is associated with the 'cf-wordpress-reancloud-WebServerSecurityGroup-GECA5R88762P' security group. The AMI is 'amzn-ami-hvm-2016.03.0.x86_64-gp2 (ami-0811162)'. The instance has a key pair named 'kp-rean-dmndung' and is launched on November 19, 2017, at 10:27:34 PM UTC-5. The instance is tagged with 'CostCenter: DevOps-108', 'Creator: Samal Dindung', 'Environment: Mgmt', 'Name: VM-Shared-WordPress-CM', 'POC: Nick Martinell', 'SecurityLevel: HIPAA', 'Tenant: Rean-Cloud', 'aws:cloudformation:logical-id: WebServer', 'aws:cloudformation:stack-id: am:aws:cloudformation:us-east-1:309815942436:stack/cf-wordpress-reancloudh8632110-cda2-11e7-982a-500c28b3e29a', and 'aws:cloudformation:stack-name: cf-wordpress-reancloud'.

The screenshot shows the 'Tags' tab for the EC2 instance 'VM-Shared-WordPress-CM'. The instance has the following tags:

Key	Value
CostCenter	DevOps-108
Creator	Samal Dindung
Environment	Mgmt
Name	VM-Shared-WordPress-CM
POC	Nick Martinell
SecurityLevel	HIPAA
Tenant	Rean-Cloud
aws:cloudformation:logical-id	WebServer
aws:cloudformation:stack-id	am:aws:cloudformation:us-east-1:309815942436:stack/cf-wordpress-reancloudh8632110-cda2-11e7-982a-500c28b3e29a
aws:cloudformation:stack-name	cf-wordpress-reancloud

14. Done, now you can start using ..

