

# WEB APP – SINGLE SERVER TO ELASTIC EVOLUTION (STAGE 1) BY ADRIAN CANTRILL

**Note:** The project instructions are detailed in Adrian's GitHub repository.

## Project Link Source:

<https://github.com/acantril/learn-cantrill-io-labs/tree/master/aws-elastic-wordpress-evolution>

In this section, I will only build Stage 1 of the project, and I will use CloudFormation as part of my DevOps practice.

## Instructions:

1. Log in to your AWS Console. Ensure that your account has Administrator Access..
2. Copy and paste the following link into your browser  
<https://console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/quickcreate?templateURL=https://learn-cantrill-labs.s3.amazonaws.com/aws-elastic-wordpress-evolution/A4LVPC.yaml&stackName=A4LVPC>.

This CloudFormation template will create the infrastructure for our **WordPress** app. Click "**I acknowledge that AWS CloudFormation might create IAM resources**," then click "**Create stack**." Wait for the stack to move into the "**CREATE\_COMPLETE**" state before continuing.

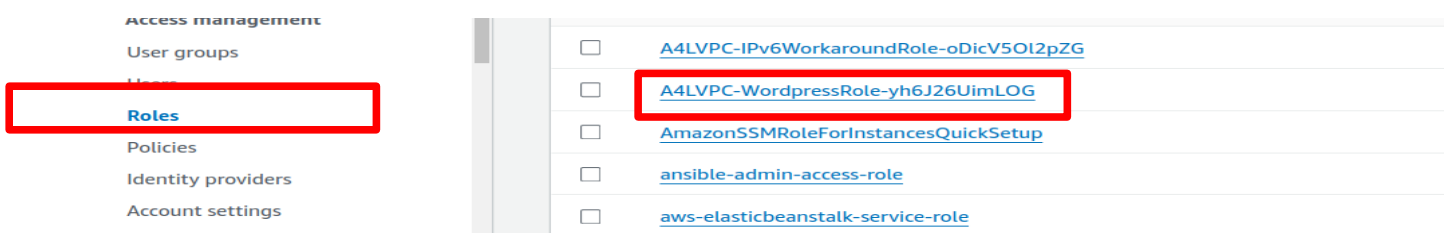
3. Download the CloudFormation template from this link:  
[https://github.com/robudexIT/awsdevopsproject/blob/cloudformation/cloudformation/wordpress/wordpress\\_instance.yaml](https://github.com/robudexIT/awsdevopsproject/blob/cloudformation/cloudformation/wordpress/wordpress_instance.yaml)

This CloudFormation template contains the same instructions as in **Stage 1**

**Note:** I used **String** type for the 5 parameters because CloudFormation currently doesn't support **SecureString**. Although it can be achieved using **Custom Resource with Lambda** or **AWS Secrets Manager**, for simplicity, I'm sticking to Parameter Store for now..

## 4. Stage1 Instructions Cloudformation:

- Goto <https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/roles> and look for A4LVPC-WordpressRole Roles and click it.



- Copy the Instance Profile Name to your notes

Creation date December 25, 2023, 18:52 (UTC+08:00)	ARN arn:aws:iam::427875724091:role/A4LVPC-WordpressRole-yh6J26UimLOG	Instance profile ARN arn:aws:iam::427875724091:instance-profile/A4LVPC-WordpressInstanceProfile-E496jwMn8kR1
Last activity -	Maximum session duration 1 hour	

Copy only the highlighted text

- Goto Cloudformation and create stack:

Selecting a template generates an Amazon S3 URL where it will be stored.

☐ Amazon S3 URL  
Provide an Amazon S3 URL to your template.

☒ Upload a template file  
Upload your template directly to the console.

☐ Sync from Git - new  
Sync a template from your Git repository.

Upload a template file

wordpress\_instance.yaml

JSON or YAML formatted file

S3 URL: [https://s3.us-east-1.amazonaws.com/cf-templates-77k09lsvfj31-us-east-1/2023-12-25T111528.608Z5sr-wordpress\\_instance.yaml](https://s3.us-east-1.amazonaws.com/cf-templates-77k09lsvfj31-us-east-1/2023-12-25T111528.608Z5sr-wordpress_instance.yaml)

This file is downloaded from steps 3

vprofile-backend-sg (sg-0702b0f5cce362f00)

primaryrootstack-VPCStack-16LRMPJIDMSQC-BackendSg-TA4QRS9WD5MM (sg-0fcb7b2befd2cfc18) (BackendSg)  
arn:aws:cloudformation:us-east-1:427875724091:stack/primaryrootstack-VPCStack-16LRMPJIDMSQC/7e03a0c0-71cf-11ee-8717-0eb7c939d005  
BackendSg BackendSg primaryrootstack-VPCStack-16LRMPJIDMSQC

A4LVPC-SGWordpress-8D9EXLG7YMTX (sg-0c5012c6840ff7a02)  
arn:aws:cloudformation:us-east-1:427875724091:stack/A4LVPC/b3408440-a313-11ee-afd6-0e2f34435afd  
A4LVPC SGWordpress

vprofile-frontend-sg (sg-037b0a748275fe2cc)

Select AWS::EC2::SecurityGroup::Id

Select This

subnet-05b424f6c32efe54f (192.168.11.0/24) (BackendPubSub02)  
BackendPubSub02 BackendPubSub02  
arn:aws:cloudformation:us-east-1:427875724091:stack/primaryrootstack-VPCStack-16LRMPJIDMSQC/7e03a0c0-71cf-11ee-8717-0eb7c939d005  
primaryrootstack-VPCStack-16LRMPJIDMSQC

subnet-0921b5419355cd4a4 (192.168.10.0/24) (BackendPubSub01)  
primaryrootstack-VPCStack-16LRMPJIDMSQC BackendPubSub01 BackendPubSub01  
arn:aws:cloudformation:us-east-1:427875724091:stack/primaryrootstack-VPCStack-16LRMPJIDMSQC/7e03a0c0-71cf-11ee-8717-0eb7c939d005

subnet-048c1b4194fa799ca (10.16.160.0/20) (sn-app-C)  
sn-app-C A4LVPC  
arn:aws:cloudformation:us-east-1:427875724091:stack/A4LVPC/b3408440-a313-11ee-afd6-0e2f34435afd SNAPPC

subnet-0177e21a38dcb177d (172.31.0.0/20)

subnet-0a771ae5a6a2a3a32 (10.16.48.0/20) (sn-pub-A)  
arn:aws:cloudformation:us-east-1:427875724091:stack/A4LVPC/b3408440-a313-11ee-afd6-0e2f34435afd  
A4LVPC SNPUBA sn-pub-A

Select AWS::EC2::Subnet::Id

Select This

### SSHLocation

The IP address or group of IP Address that allowed to access EC2 Instance

### SecurityGroupID

Security Group of Wordpress Instance

### SubnetId

Subnet of The Frontend Server

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

#### ► Stack policy

Defines the resources that you want to protect from unintentional updates during a stack update.

#### ► Rollback configuration

Specify alarms for CloudFormation to monitor when creating and updating the stack. If the operation breaches an alarm threshold, CloudFormation rolls it back.

#### ► Notification options

#### ► Stack creation options

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

### No notification options

There are no notification options defined

### Stack creation options

Timeout

-

Termination protection

Deactivated

► Quick-create link

Create change set

Cancel

Previous

Submit

Delete

Update

Stack actions ▼

Create stack ▼



Stack info

Events

Resources

Outputs

Parameters

Temp



## Overview



Stack ID

arn:aws:cloudformation:us-east-1:427875724091:stack/wordpress-stack/235d8c60-a318-11ee-b2e9-0ae602005963

Description

-

Status

 CREATE\_COMPLETE

Status reason

-

Root stack

Parent stack

Wait Until  
Wordpress-stack  
complete

- Go to <https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:sort=desc:tag:Name>
- Select the Wordpress Instance and copy the Public IP Address and paste it to browser address bar
- If this page will appear that means the wordpress setup is successful

# 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. Do not worry, you can always change these settings later.

**Site Title**

**Username**

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

**Password**

Strong

**Important:** You will need this password to log in. Please store it in a secure location.

**Your Email**

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](#)

- Let Perform Initial Configuration and make a post

# 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. Do not worry, you can always change these settings later.

**Site Title**

**Username**

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

**Password**  [Hide](#)  
Medium

**Important:** You will need this password to log in. Please store it in a secure location.

**Your Email**

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](#)

Click This





## Success!

WordPress has been installed. Thank you, and enjoy!

**Username** admin

**Password** *Your chosen password.*

[Log In](#)

Click This



Username or Email Address

admin

Password

• • • • • • • • • •

☐ Remember Me

Log In

[Lost your password?](#)

[← Go to Catagram](#)

Login User and  
Password here:

- Click Posts in the menu on the left
- Select Hello World! Click Bulk Actions and select Move to Trash Click Apply
- Click Add New
- If you see any popups close them down
- For title The Best Animal(s)!
- Click the + under the title, select Gallery Click Upload
- Select some animal pictures.... if you dont have any use google images to download some Upload them
- Click Publish
- Click Publish Click view Post

## Final Result:



Thats Conclude the **Stage 1.....**

You can delete the the **wordpress-stack..** dont delete the **A4LVPC** we will need it in Stage 2