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INSERT THE TITLE
OF YOUR PRESENTATION HERE

WORKFLOW

APPLICATION

WordPress is an open-source website creation platform that is written in PHP and uses a MySQL database. With WordPress, you can host files and database on different servers/machines very quickly as it uses MySQL as a database management system.

I have created my own WordPress and MySQL AMI on AWS from which I will be launching the instance

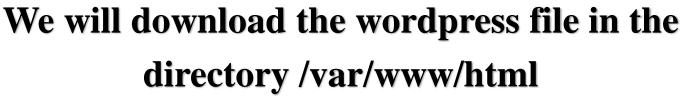
In this we will be creating our own VPC on AWS with one public subnet and one private subnet.We will deploy WordPress in the public subnet so that it can be accessed by the users/clients and create MySQL database in the private subnet giving only the WordPress server access to it.



On the Application server, we need to install Apache webserver, on which our application can be hosted, PHP and some other PHP dependencies. Also, we will install mysql-client as WordPress acts as client to the MySQL server.

To configure we run this commands on our instance

```
~#apt-get update
~# apt-get upgrade -y
~# apt-get install apache2 -y
~# apt-get install php7.0 php7.0-curl php7.0-mysql
php7.0-mbstring php7.0-dom php7.0-gd -y
~# apt-get install libapache2-mod-php7.0
~# apt-get install mysql-client -y
```



```
cd /var/www/html
/var/www/html# rm -rf *
/var/www/html# wget
https://wordpress.org/latest.tar.gz
/var/www/html# tar -xzvf latest.tar.gz
/var/www/html# mv wordpress/* ./
/var/www/html# chown -R www-data:www-data
/var/www/html
```

Configure MySQL Database Server

- ~#apt-get update
- ~# apt-get upgrade -y
- ~# apt-get install mysql-server mysql-client -y
- ~# nano /etc/mysql/mysql.conf.d/mysqld.cnf

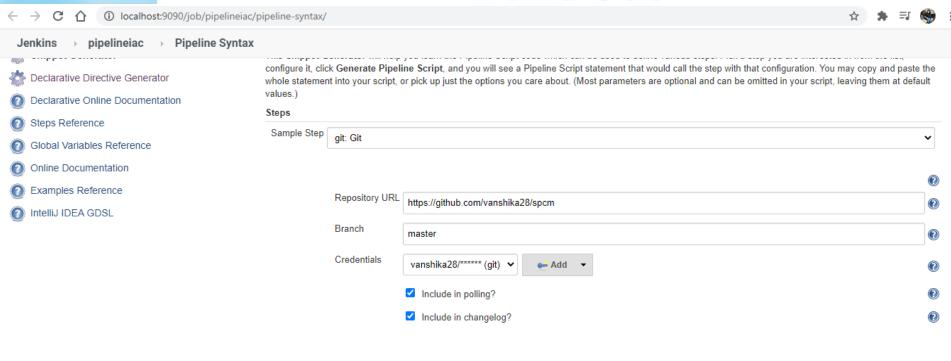
In this file, there is an arguement bind-address. We have to change the IP Address to the IP on which our server will be running. In case your IP is not static, you can provide bind-address=0.0.0.0

```
1 provider "aws" {
3
     region = "ap-south-1"
      profile="Garg"
4
5
6
    resource "aws_vpc" "virtualpc" {
      cidr_block = "192.168.0.0/16"
8
     instance tenancy = "default"
9
10
11 tags = {
12
  Name = "vpc1"
13
14 }
15
16    resource "aws_subnet" "publicsubnet" {
17    vpc_id = "${aws_vpc.virtualpc.id}"
   cidr block = "192.168.0.0/24"
    availability_zone ="ap-south-1a"
19
20 map_public_ip_on_launch=true
21 tags = {
22
   Name = "publicsubnet"
23 }
24 }
25
26    resource "aws_subnet" "priavtesubnet" {
27  vpc_id = "${aws_vpc.virtualpc.id}"
28 cidr_block = "192.168.1.0/24"
    availability zone="ap-south-1b"
20 4----
```

```
resource "aws_subnet" "publicsubnet" {
16
17
    vpc_id = "${aws_vpc.virtualpc.id}"
18
    cidr block = "192.168.0.0/24"
    availability_zone ="ap-south-1a"
19
    map_public_ip_on_launch=true
20
21 tags = {
22
        Name = "publicsubnet"
23
24
25
26
    resource "aws_subnet" "priavtesubnet" {
27
     vpc_id = "${aws_vpc.virtualpc.id}"
     cidr block = "192.168.1.0/24"
    availability zone="ap-south-1b"
29
30 tags = {
31
        Name = "privatesubnet"
32
     }
    3
34
    resource "aws_internet_gateway" "internetgw" {
     vpc_id = "${aws_vpc.virtualpc.id}"
37
     tags = {
        Name = "gw"
41
42
43
    resource "aws_route_table" "routing" {
     vpc_id = "${aws_vpc.virtualpc.id}"
44
```

```
105
106
     resource "aws_security_group" "privatesg" {
107
      name
                 = "privatesg"
108
      description = "NAllow "
109
    vpc_id = "${aws_vpc.virtualpc.id}"
110
111
     ingress {
112
        description = "TLS from VPC"
113 from port = 3306
114 to_port = 3306
       protocol = "tcp"
115
116 cidr_blocks = ["0.0.0.0/0"]
117
      }
118
119 egress {
120
       from_port = 0
121
      to_port = 0
122
       protocol = "-1"
123
        cidr_blocks = ["0.0.0.0/0"]
      }
124
125
126 tags = {
127
       Name = "sql"
122
```

Build Job



Generate Pipeline Script

git credentialsId: '87315ee5-6b30-40c6-82c6-251a66b18ca3', url: 'https://github.com/vanshika28/spcm'

```
pipeline{
        agent any
        tools {
      terraform 'terraform-11'
        stages{
           stage('Git Checkout'){
               steps{
                   git credentialsId: '87315ee5-6b30-40c6-82c6-251a66b18ca3', url: 'https://github.com/vanshika28/spcm'
            stage('Terraform Init'){
14
                steps{
                   sh label: '', script: 'terraform init'
                stage('Terraform Apply'){
                steps{
                   sh label: '', script: 'terraform apply --auto-approve'
24
                                                                                                                                              Activate Windows
```

BUILD NOW

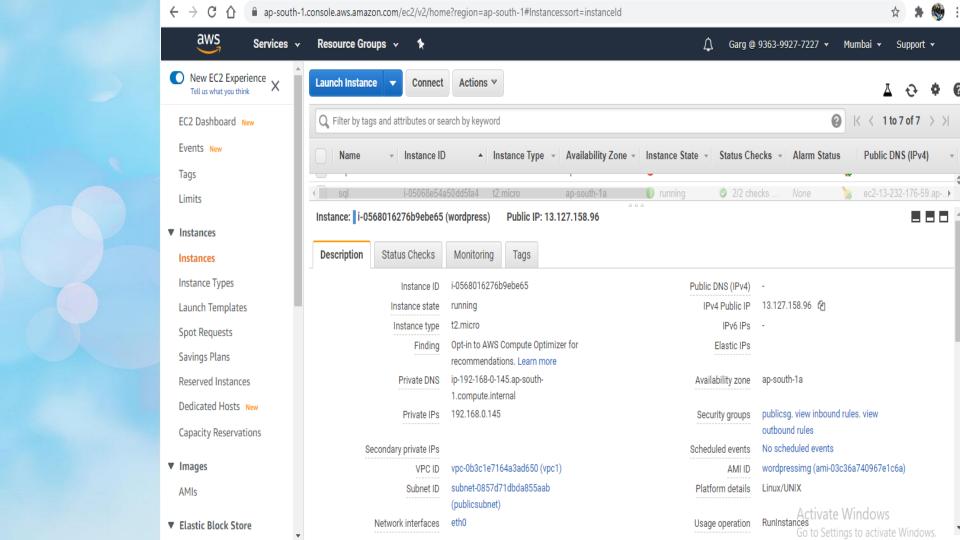
Padd description

cent Changes

View

	Declarative: Tool Install	Git Checkout	Terraform Init	Terraform Apply
Average stage times: ge full run time: ~9s)	187ms	2s	2s	5s
No Changes	62ms	1s	963ms	6s
	312ms	3s	3s	35

Activate Windows





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

Vanshika Garq

varistiika darg

Linux World

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

Password

Username

Devops25@



Medium

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



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Username

Vanshika Garg

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

Password

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

Your Email

vanshikanonu1999@gmail.com

Double-check your email address before continuing.

Activate Go to Settin

A stirrata Windows



Success!

WordPress has been installed. Thank you, and enjoy!

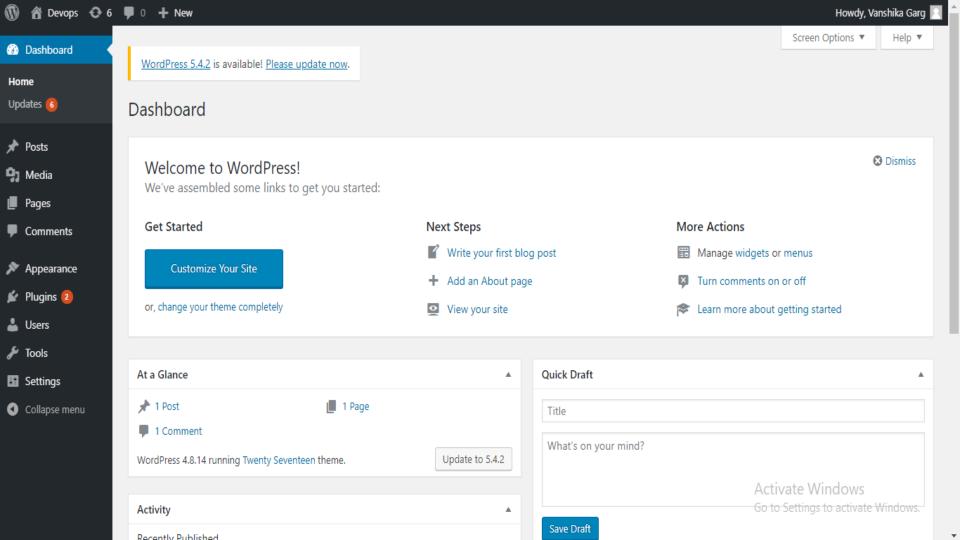
Username

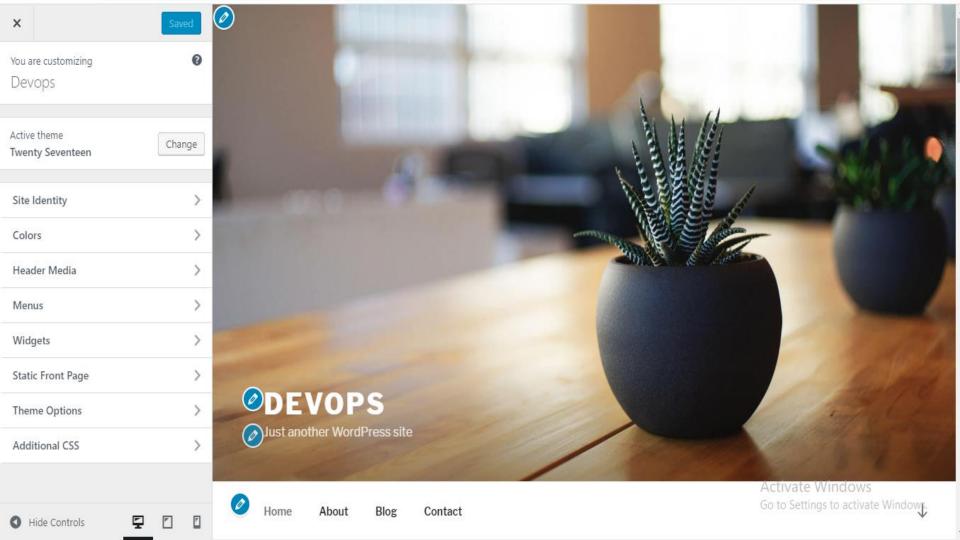
Vanshika Garg

Password

Your chosen password.

Log In





THANK YOU