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Hosting website on ec2 by using cloudformation

1. Create yaml file mentioning security group and instance

AWSTemplateFormatVersion: "2010-09-09"

Description: "CloudFormation Template for EC2 Instance and Security Group in Multiple Availability Zones."

Parameters:

InstanceType:

Description: "EC2 Instance Type"

Type: String

Default: t2.micro

AllowedValues:

- t2.micro
- t2.small
- t2.medium

ConstraintDescription: "Must be a valid EC2 instance type."

KeyName:

Description: "Name of an existing EC2 KeyPair to enable SSH access"

Type: AWS::EC2::KeyPair::KeyName

Default: Riya_12

Resources:

WebServerSecurityGroup:

Type: AWS::EC2::SecurityGroup

Properties:

GroupDescription: "Allow HTTP and SSH traffic"

VpcId: vpc-042065cdae99efe51 # Replace with your existing VPC ID

SecurityGroupIngress:

- IpProtocol: tcp

FromPort: 22

ToPort: 22

CidrIp: 0.0.0.0/0

- IpProtocol: tcp

FromPort: 80

ToPort: 80

CidrIp: 0.0.0.0/0

EC2Instance:

Type: AWS::EC2::Instance

Properties:

InstanceType: !Ref InstanceType

KeyName: !Ref KeyName

SecurityGroupIds:

- !Ref WebServerSecurityGroup

SubnetId: subnet-0d31376605650c367 # Replace with your existing Subnet ID

ImageId: ami-0aebec83a182ea7ea # Ensure this AMI ID is correct for your region

No need to specify AvailabilityZone if you are using SubnetId

UserData:

Fn::Base64: |

#!/bin/bash yum

update -y yum install -

y httpd systemctl start

httpd systemctl enable

httpd

echo "Hello World from \$(hostname -f)" > /var/www/html/index.html

Outputs:

EC2InstanceId:

Description: "The Instance ID"

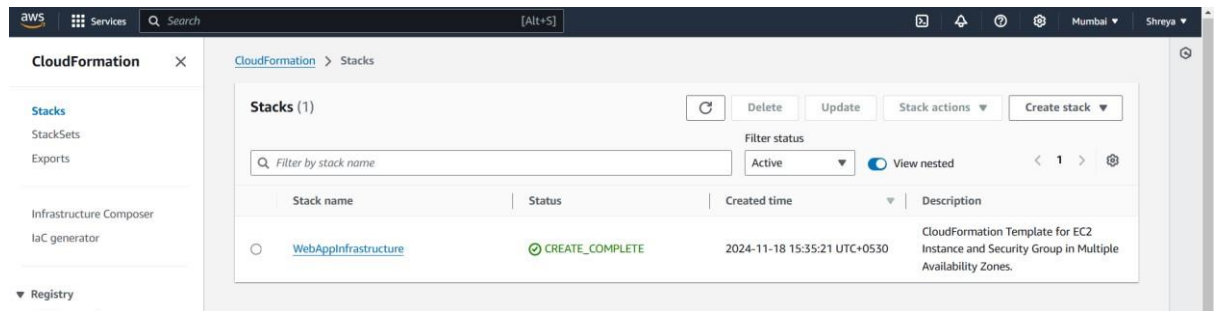
Value: !Ref EC2Instance

WebServerSecurityGroupId:

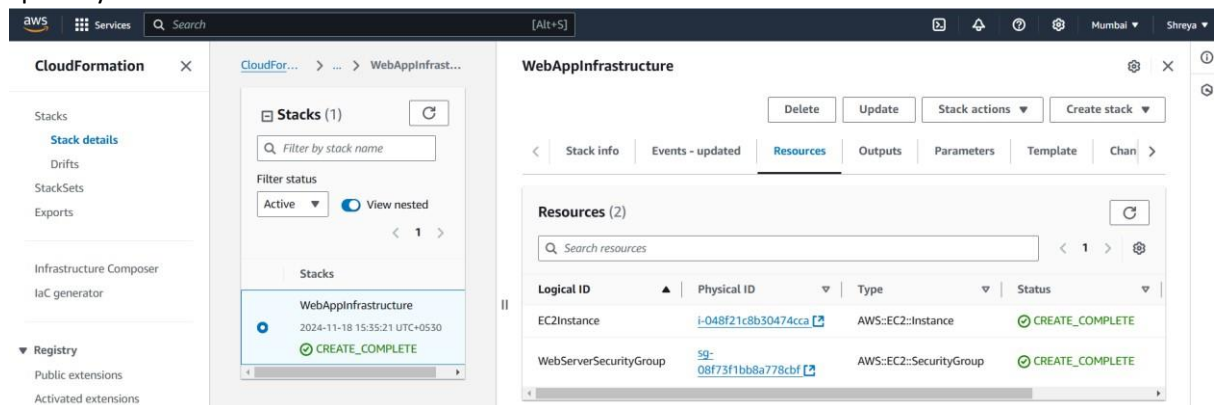
Description: "The Security Group ID"

Value: !Ref WebServerSecurityGroup

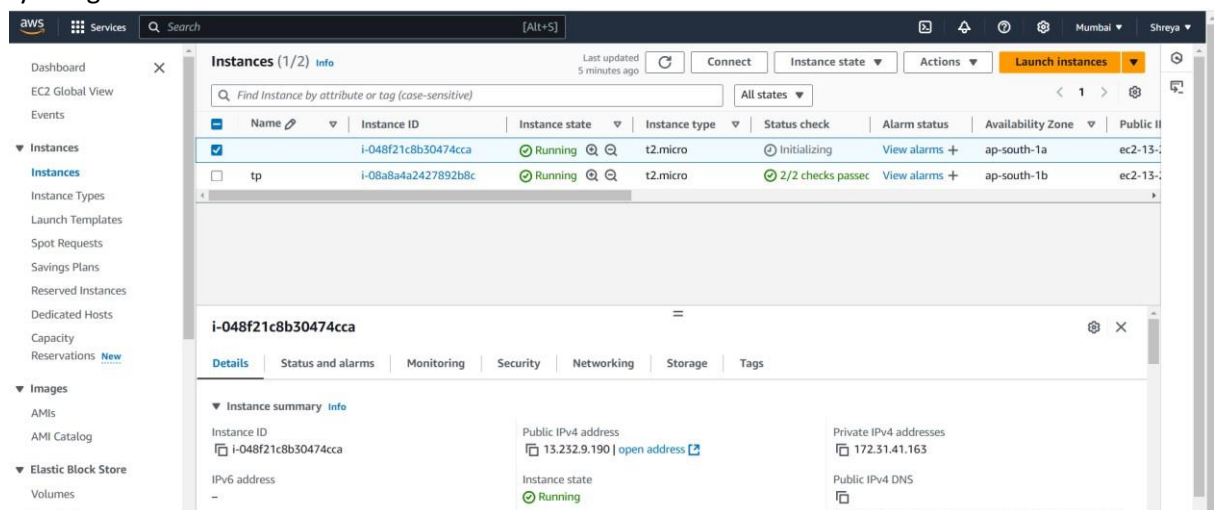
2. Create Stack on CloudFormation



Upload yaml file



By using cloudformation instance create



Select EC2 -> Connect -> cd /var/log -> la -itrh -> less cfn-init.log and Check

```
Keyboard shortcut
To tab out of the terminal window and select the next button element, press the left and right Shift keys together.
Close permanently

Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023/

[ec2-user@ip-172-31-45-242 ~]$ cd /var/log
[ec2-user@ip-172-31-45-242 log]$ ls -ltrh
total 1.4M
-rwxr-xr-x. 2 root root      8 Jun 12 22:04 xsast
-rw-r--r--. 1 root root      0 Nov 13 18:25 tallylog
-rwxr-xr-x. 2 root root      6 Nov 13 18:25 private
-rw-rw-rw-. 1 root utmp      0 Nov 13 18:25 utmp
-rwxr-xr-x. 1 root root    39 Nov 13 18:25 README -> ../usr/share/doc/openssh/README.logs
-rwxr-xr-x. 3 root systemd-journal 45 Nov 18 05:20 journal
-rwxr-xr-x. 2 root root    23 Nov 18 05:20 audit
-rwxr-xr-x. 2 root root    18 Nov 18 05:20 aa
-rwxr-xr-x. 3 root root    17 Nov 18 05:20 amazon
-rwxr-xr-x. 2 chrony chrony  72 Nov 18 05:20 chrony
-rw-r--r--. 1 root root   136 Nov 18 05:20 cfn-init-rm.log
-rwxr-xr-x. 2 root root    41 Nov 19 05:20 httpd
-rwxr-xr-x. 1 root root    2.1K Nov 18 05:20 cfn-init.log
-rw-rw-rw-. 1 root root    874 Nov 18 05:20 cfn-wire.log
-rw-r--r--. 1 root adm    5.7K Nov 18 05:20 cloud-init-output.log
```

```
Keyboard shortcut
To tab out of the terminal window and select the next button element, press the left and right Shift keys together.
Close permanently

[ec2-user@ip-172-31-45-242 ~]$ cd /var/log
[ec2-user@ip-172-31-45-242 log]$ ls -ltrh
total 1.4M
-rwxr-xr-x. 2 root root      8 Jun 12 22:04 xsast
-rw-r--r--. 1 root root      0 Nov 13 18:25 tallylog
-rwxr-xr-x. 2 root root      6 Nov 13 18:25 private
-rw-rw-rw-. 1 root utmp      0 Nov 13 18:25 utmp
-rwxr-xr-x. 1 root root    39 Nov 13 18:25 README -> ../usr/share/doc/openssh/README.logs
-rwxr-xr-x. 3 root systemd-journal 45 Nov 18 05:20 journal
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-rwxr-xr-x. 3 root root    17 Nov 18 05:20 amazon
-rwxr-xr-x. 2 chrony chrony  72 Nov 18 05:20 chrony
-rw-r--r--. 1 root root   136 Nov 18 05:20 cfn-init-rm.log
-rwxr-xr-x. 2 root root    41 Nov 19 05:20 httpd
-rwxr-xr-x. 1 root root    2.1K Nov 18 05:20 cfn-init.log
-rw-rw-rw-. 1 root root    874 Nov 18 05:20 cfn-wire.log
-rw-r--r--. 1 root adm    5.7K Nov 18 05:20 cloud-init-output.log
-rwxr-xr-x. 1 root adm   148K Nov 18 05:20 cloud-init.log
-rwxr-xr-x. 1 root root    2.8K Nov 18 05:20 hawkey.log
-rwxr-xr-x. 1 root root    94K Nov 18 05:20 dnf.rpm.log
-rwxr-xr-x. 1 root root   461K Nov 18 05:20 dnf.librepo.log
-rwxr-xr-x. 1 root root   283K Nov 18 05:20 dnf.log
-rw-rw-rw-. 1 root utmp    3.7K Nov 18 05:25 utmp
-rw-rw-rw-. 1 root utmp   206K Nov 18 05:25 lastlog
[ec2-user@ip-172-31-45-242 log]$ less cfn-init.log
[ec2-user@ip-172-31-45-242 log]$
```

Website run on public id

