

aws-solutions-architect-training/module\_2\_assignment\_2\_auto\_scaling.md at ma... https://github.com/enhariharan/aws-solutions-architect-training/blob/main/mod...

## 1. Create an EC2 instance

- Follow the steps mentioned in the file aws-solutions-architect-training/module\_1\_elastic\_compute\_and\_storage\_volumes /assignment\_1\_ec2/assignment\_1\_ec2.md to create an EC2 instance and install/configure nginx.
- Instance 1: Ubuntu t2.micro EC2 instance, 64-bit (x86), tag **module\_2\_assignment\_2\_ec2\_vm1**, new inbound HTTP rule on port 80 allowing all requests (0.0.0.0/0)

## 2. Install Apache 2 in this EC2 instance

- Open an SSH session to the EC2 instance created above.
- Install Apache2 HTTP server using the below commands

```
$ sudo apt update
$ sudo apt install -y apache2
```

• Verify that Apache2 HTTP server is running. As a result of this command, the status of Apache2 HTTP server must show up as **Active: active (running)** 

```
$ sudo service apache2 status
```

- Verify that Apache2 HTTP server is serving pages correctly. Open a browser and go to the external IP address for the EC2 instance (using http://) as pointed in the EC2 management console. If correctly configured, then the default Apache2
   Ubuntu Default Page must show up.
- Now, save this EC2 instance as an AMI image with name module\_2\_assignment\_2\_ec2\_vm1\_ami.

## 3. Create a launch configuration with this AMI

• In the "EC2 Management Console", open Launch Configurations under Auto Scaling in the navigation pane. Click on Create Launch Configuration.

- In the page "Create launch configuration"...
  - o In the field "Name", type module\_2\_assignment\_2\_ec2\_vm1\_launch\_configuration.
  - In the field "AMI", choose the same AMI that was created above with name module\_2\_assignment\_2\_ec2\_vm1\_ami.
  - ∘ In the field "Instance Type", choose **m1.small**
  - Leave all other fields as it were with default values.
  - o In the field "Key pair (login)", give the Key pair name as module\_2\_assignment\_2\_ec2\_vm1\_launch\_config\_key.
  - Finally click on Create launch configuration.
- In the "Launch Configurations" page, verify that the launch configuration is visible.

## 4. Create an Auto Scaling group with this launch configuration

- In the "Launch configurations" page, select the launch configuration created above with name module\_2\_assignment\_2\_ec2\_vm1\_launch\_configuration.
- Now click on Actions --> Create Auto Scaling group.
- In the page "Choose launch template or configuration"...
  - In the field "Auto Scaling group name", provide the name as
     module 2 assignment 2 ec2 vm1 auto scaling config. Click on Next.
  - In the field "Availability Zones and subnets", choose use-east-1c which is the same zone in which the EC2 instance
    was created above. Click on Next.
- In the page "Configure advanced options", leave the fields as they are. CLick Next.
- In the page "Configure group size and scaling policies"...
  - Set "Minimum capacity" to 1, and "Maximum Capacity" to 5. CLick Next.
- In the page "Add tags", leave the fields as they are. CLick Next.
- Now, review the settings and click on **Create Auto Scaling group**.

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This finishes the steps asked in the question.