Aws Assignment

- 1. Launch one EC2 using Amazon Linux 2 image and add a script in user data to install Apache
 - Launch a ec2 instance with a pem key and your public ip.
 - Then check the security inbound rules ssh should be 22 and http in 80
 - Then go to the bottom instance and additional info open it
 - And use a bash script for it
 - Then go the git bash connect to the server and take the public ip and paste it with last gave that pot number of :80

Linux

2!</h1>"

• Here the results are

Bash script download apache process:

#!/bin/bash # Update system yum update -y # Install Apache (httpd) yum install -y httpd # Enable Apache to start on boot systemctl enable httpd # Start Apache service systemctl start httpd # Create a test index.html echo "<h1>Welcome Apache Amazon to on /var/www/html/index.html

Note: Using # it means gave a comment it will gave you a message who ever check it that one he will understand easily.



- 2). Launch one EC2 using Ubuntu image and add a script in user data to install nginx
 - ➤ Lauch a ec2 instance with a pem key and your public ip.
 - ➤ Then check the security inbound rules ssh should be 22 and httpd in 80
 - > Then go to the bottom instance and additional info open it
 - > And use a bash script for it nginx
 - ➤ Then go the git bash connect to the server and take the publc ip and paste it with last gave that port number of :80
 - > Here the results are



Welcome to Nginx on Ubuntu EC2!

Bash script for nginx:

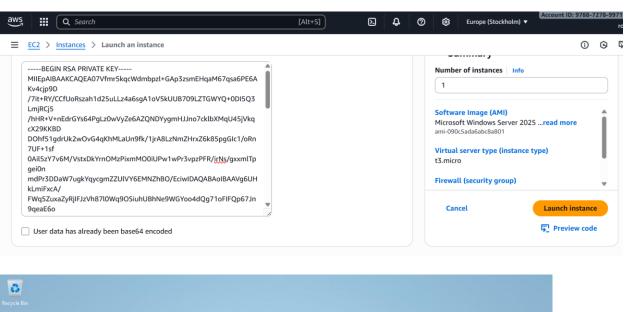
#1/bin/bash
#update system packages
Apt-get update –y
#install nginx
Apt-get install –y nginx
#Enable nginx to start on boot
Systemctl enable nginx

#start nginx service Systemctl start nginx #ceation a custom index page

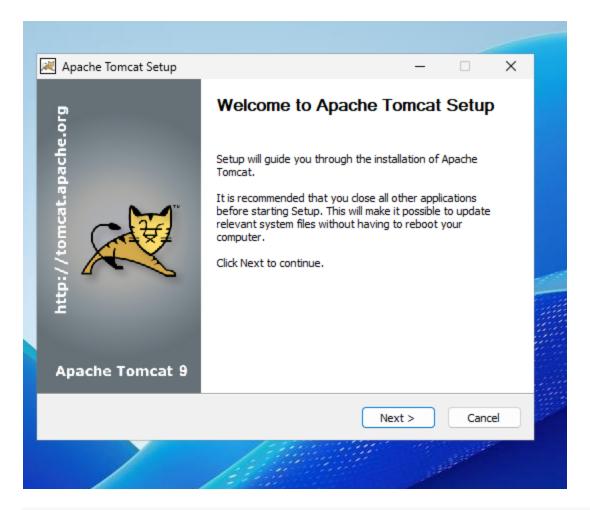
Echo "<h1> welcome to nginx on Ubuntu EC2!</h1>"> /var/ww/html/index.nginx-debian.html

Note: # uses for only gave a comments just want to know the purpose what we are doing in bash scripting.

3) Launch one Windows server and install Tomcat on Windows

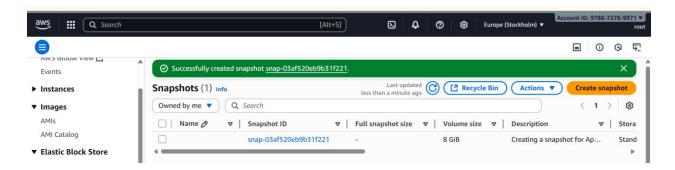






4) Take a snapshot of the instance created in Task 1

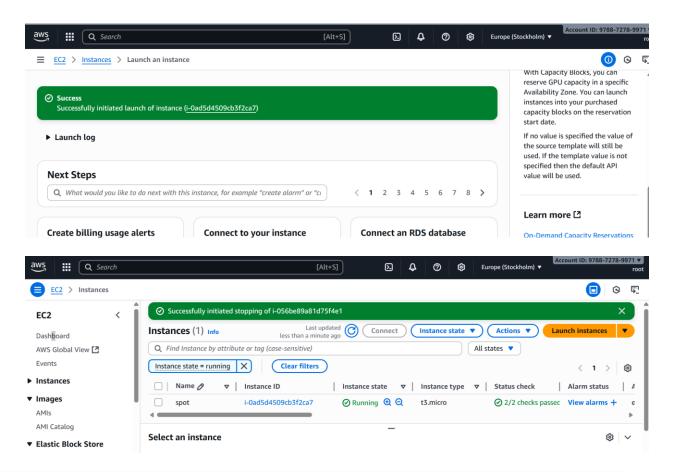
- ➤ Go to EC2 dashboard → click on instances
- > Select the instance you created in nginx web check
- ➤ Scroll down to storage → find the volume ID (attached root volume)
- ➤ Click the Volume Id → you'll be redirected to the EBS volumes page.
- Create snapshot and select the instance which one you want here the results are..



- 5) Assign password less authentication for the EC2 created in Task 2.
 - To create password less authentication:
 - Crate a ssh-key in our local machine ssh –keygen
 - Then copy your public key using --- at/c/users/DELL/ .ssh/id_rsa.pub
 - Create an user --- useradd techie
 - Password for user --- passwd techie
 - Ssh-keygen --- crate a ssh key in ec2 machine
 - Vi /root/.ssh/id_rsa.pub (paste your local machine key here by keeping)
 - Present key as same ..
 - Vi/etc/ssh/sshd_config --- enable password authentication as yes
 - Systemctl restart sshd --- restart your machine :
 - Ssh techie@public-ip
 - Allow fingerprint authentication :yes

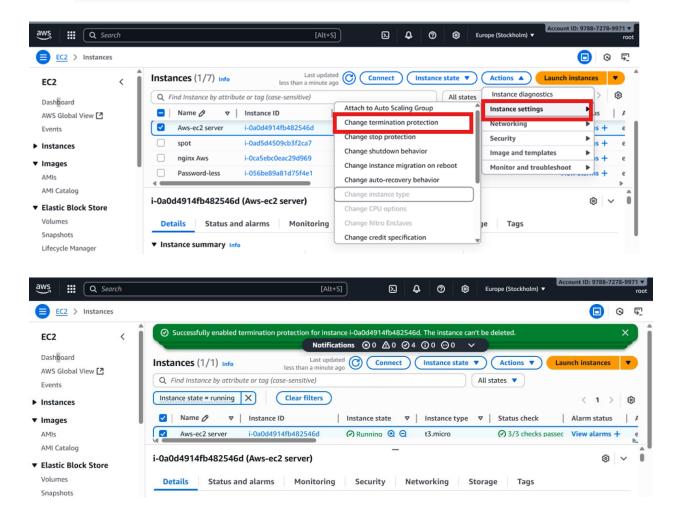
- 6) Launch any EC2 using the spot purchasing option.
 - Click on launch instance
 - By using spot instance launch one instance

Launch an instance Info Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below. Name and tags Info Name spot-purchase Add additional tags Spot instances Request Spot Instances at the Spot price, capped at the On-Demand price **Discard Spot instance options** Spot Instance Options | Info Specify Spot Instance Options such as Maximum Price, Request type, expiration date and interruption behavior Maximum price Info No maximum price Request Spot Instances at the Spot price, capped at the On-Demand price Set your maximum price (per instance/hour)



- 7) Enable termination policy on the EC2 created in Task 2.
 - Go to the EC2 Dashboard in AWS console

- Select the EC2 instance you created in task 2
- In the instance settings menu, click change termination protection
- Select Enablr and save .



8) Launch one EC2 using AWS CLI.

- Launch instance name with AWS
- And to connect to the server then
- Wget download cli https://awscli.amazonaws.com/AWSCLIV2.msi
- Then gave a command of aws configure it will show you a options like
- Access key
- Secret access key
- Region and format
- For access key and secrete key open our profile then security credentials and it will generate the keys

- Then aws ec2 describe-instances
- Here the results