[aytanasadova/AWS-developer-intensive-course (github.com)](https://github.com/aytanasadova/AWS-developer-intensive-course)

Sub-task 1 – allocate EC2 resources

Graphical user interface, text, application, email

Description automatically generated

Configure security group for the EC2 instance so that:

* allow access over HTTP/HTTPS from anywhere
* allows SSH connection from your IP address only

Graphical user interface, text, application, email

Description automatically generated

* optional task – write a script which would update the security group based on your current IP address (very useful in case you don’t have a static IP address)

Graphical user interface, text

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Text

Description automatically generated

Make sure HTTP server(any) is installed and running on the instance. Make sure that it starts whenever the instance boot/reboot.

Text

Description automatically generated

Download the static web site created in module 3 on the instance.

Text

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

**Sub-task 2 – automate EC2 configuration**

Graphical user interface, application

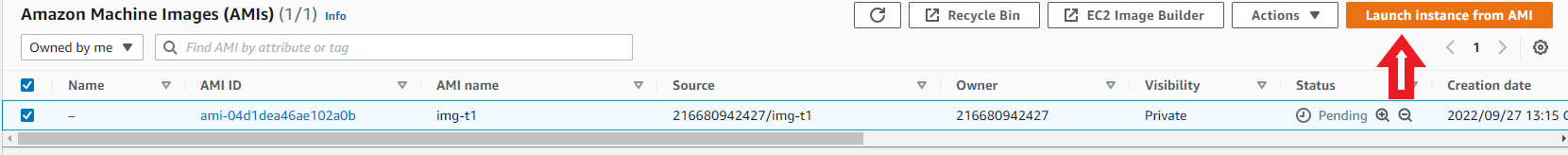
Description automatically generated

Create a custom AMI based on the EC2 instance.

You don’t need to write user data again, because they are copied with image

Graphical user interface, text, application, Word

Description automatically generated



Graphical user interface, text, application

Description automatically generated

**Sub-task 3 – Introducing EBS basics**

1. Create EBS volume and attach it to the EC2 instance from the first sub-task.

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

* lsblk
* file -s /dev/xvdf
* mkfs -t xfs /dev/xvdf
* mkdir demo
* mount /dev/xvdf demo
* umount -d /dev/xvdf

Detach volume and attach it to another instance. (Same AZ)

Graphical user interface, application

Description automatically generated

Text

Description automatically generated

After attaching volume, we can see that the file we created earlier is here.

**Sub-task 4 – create a load-balanced application**

**Upload our jar to s3**

Text

Description automatically generated

|  |
| --- |
|  |
| #!/bin/bash |
| mkdir java |
| cd java |
| sudo yum update |
| sudo amazon-linux-extras install java-openjdk11 |
| cd ../ |
| mkdir spring-app |
| aws s3 cp s3://pinqi-bucket/project-aws/awsdemo.jar spring-app |
| cd spring-app |
| java -jar awsdemo.jar |

user data in launch template

Graphical user interface, text, application, email

Description automatically generated

Auto Scaling group activities

Graphical user interface, text, application, email

Description automatically generated

Creating load balancer

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, application

Description automatically generated

Target group creating

A screenshot of a computer

Description automatically generated

Call uri from instance

Graphical user interface, text, application

Description automatically generated

Load balancing

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated