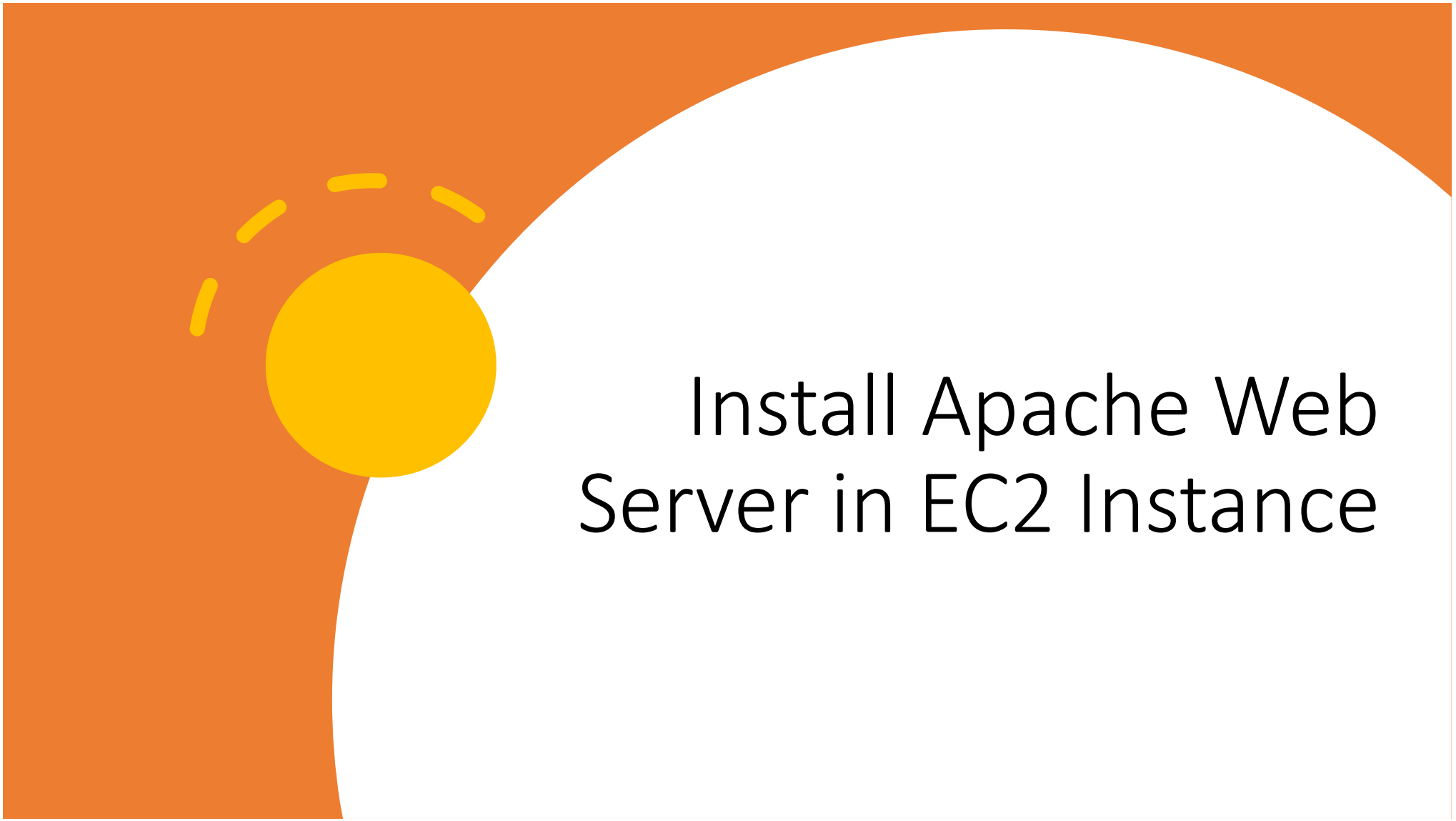

Install Apache Web
Server in EC2 Instance

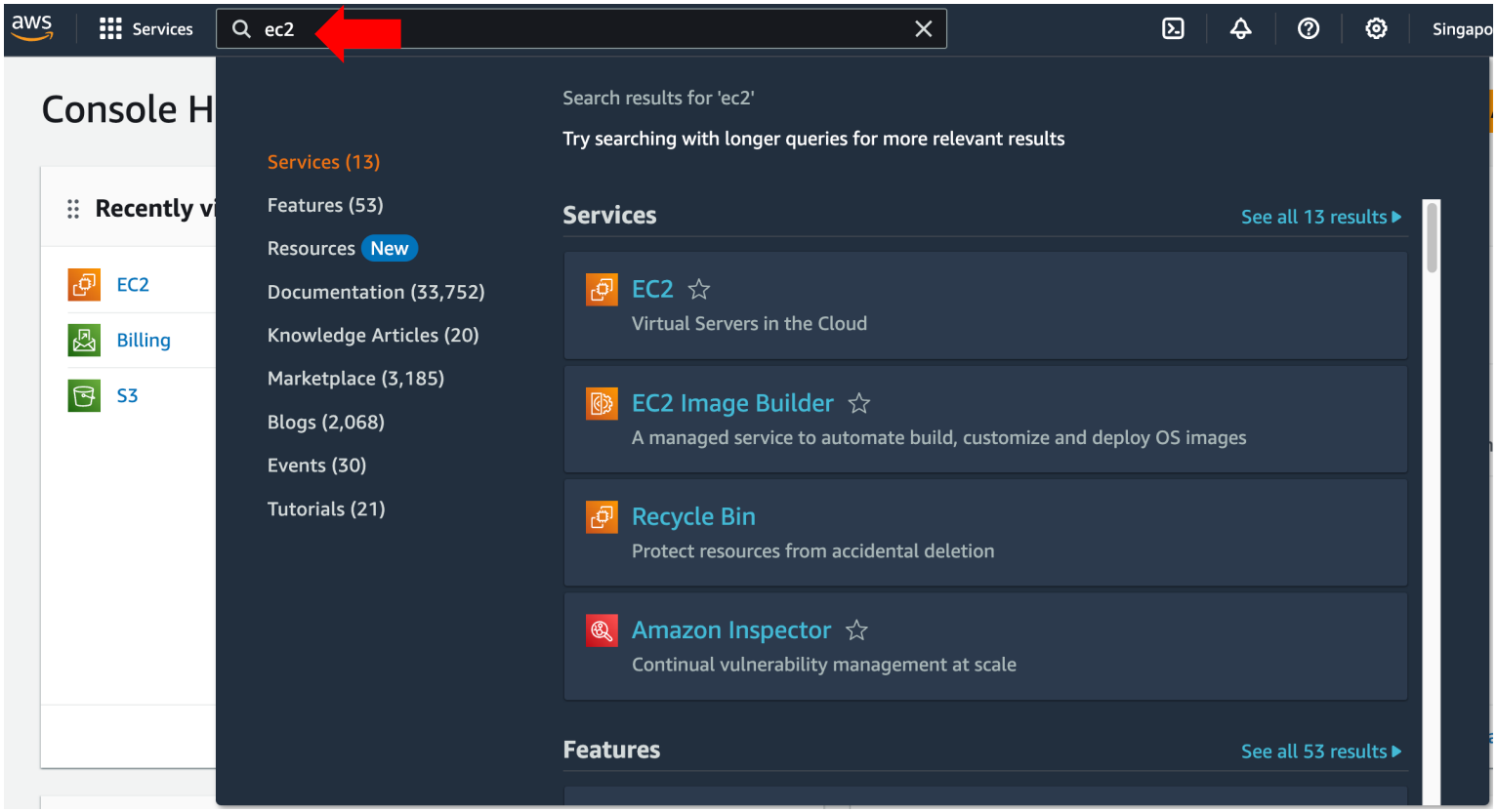
Steps

1. Login to AWS Management Console & launch EC2 instance Enable static website hosting
2. Configure the EC2 User Data Script to updates all packages, install Apache web server
3. Verify that the instance has the Apache web server downloaded and installed through the public IP
4. Clean up

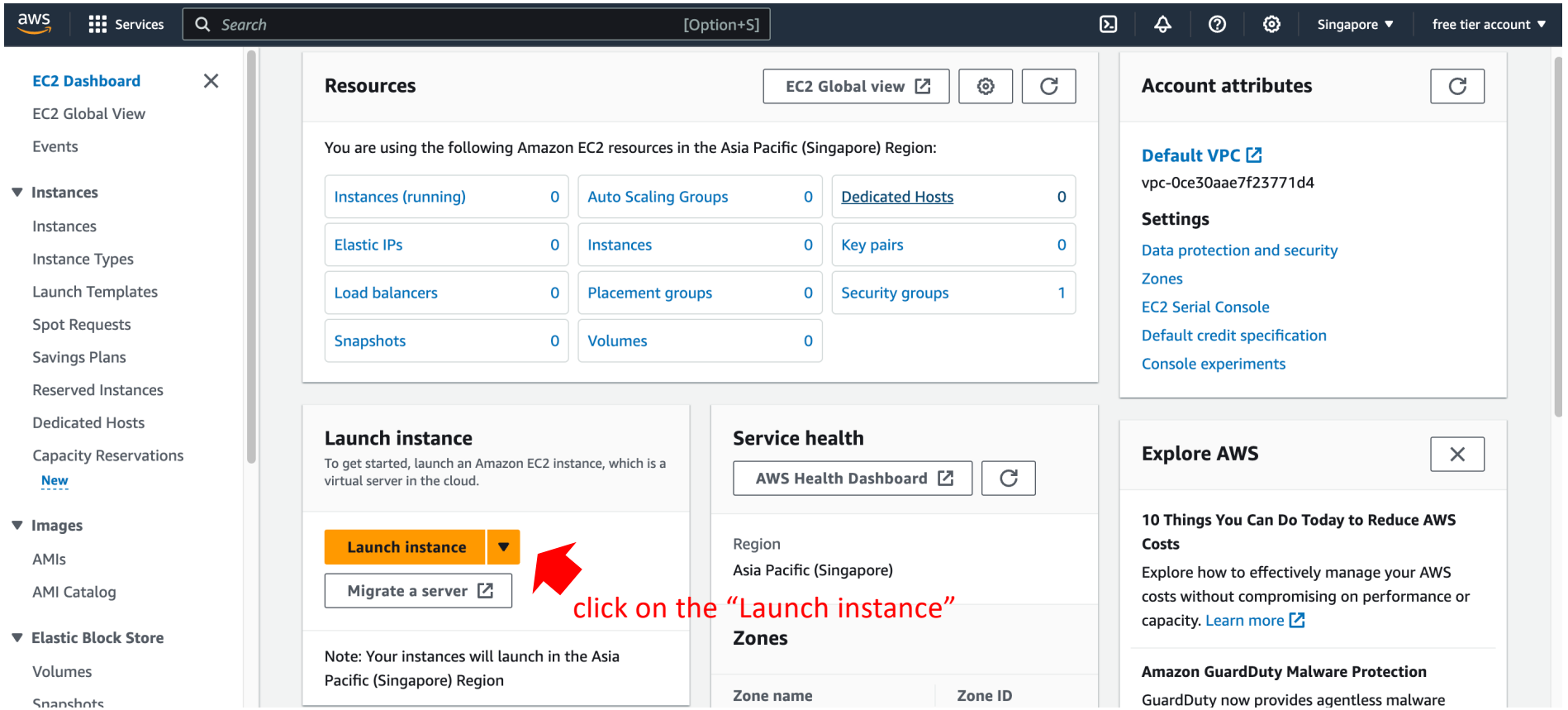
You can download the instruction PDF file from

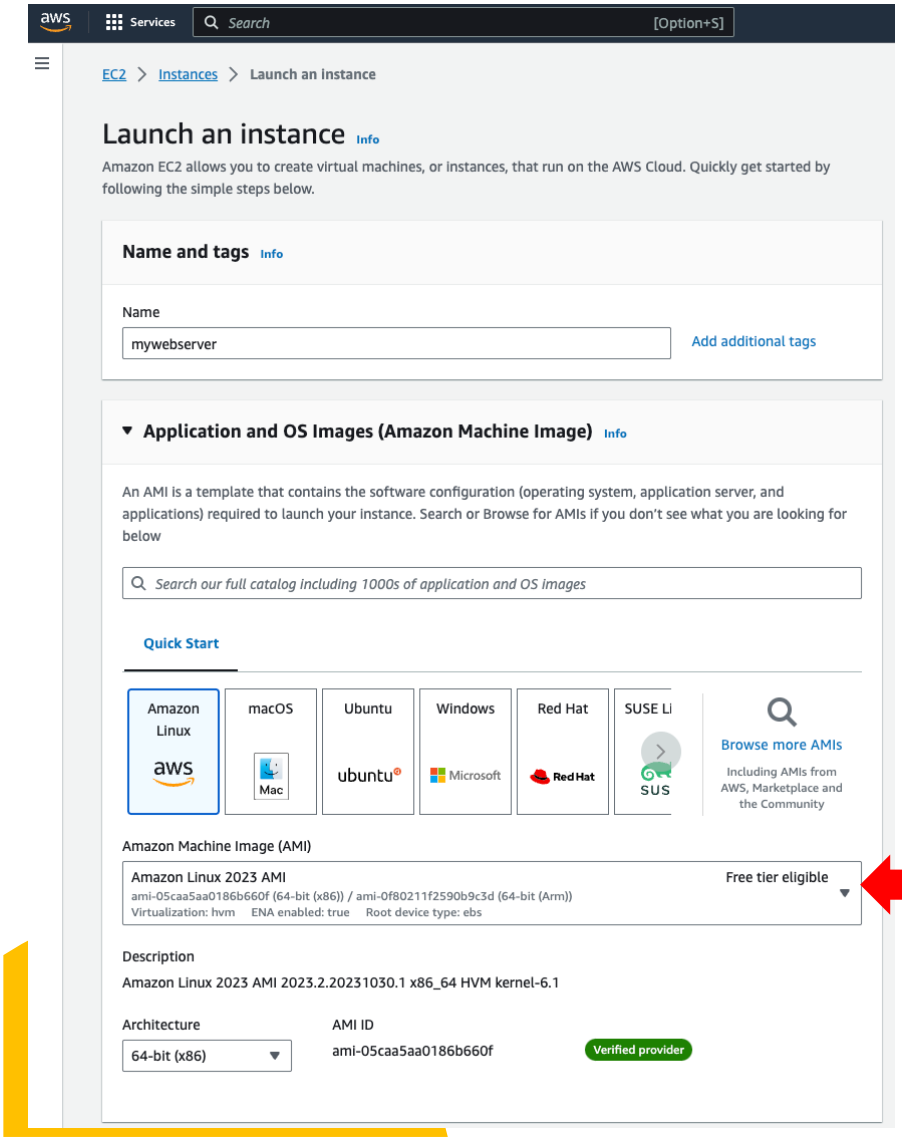
Step 1 - Login to AWS Management Console & launch EC2 instance

login to your AWS account via the AWS Management Console and in the research bar type EC2 service, select the EC2 service



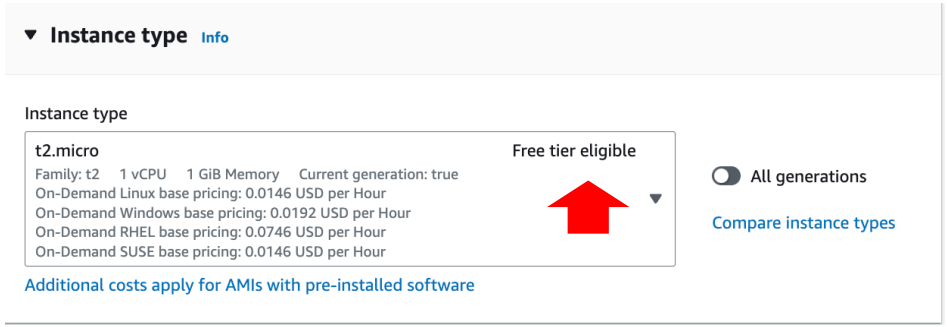
This will lead you to the EC2 dashboard page as shown below



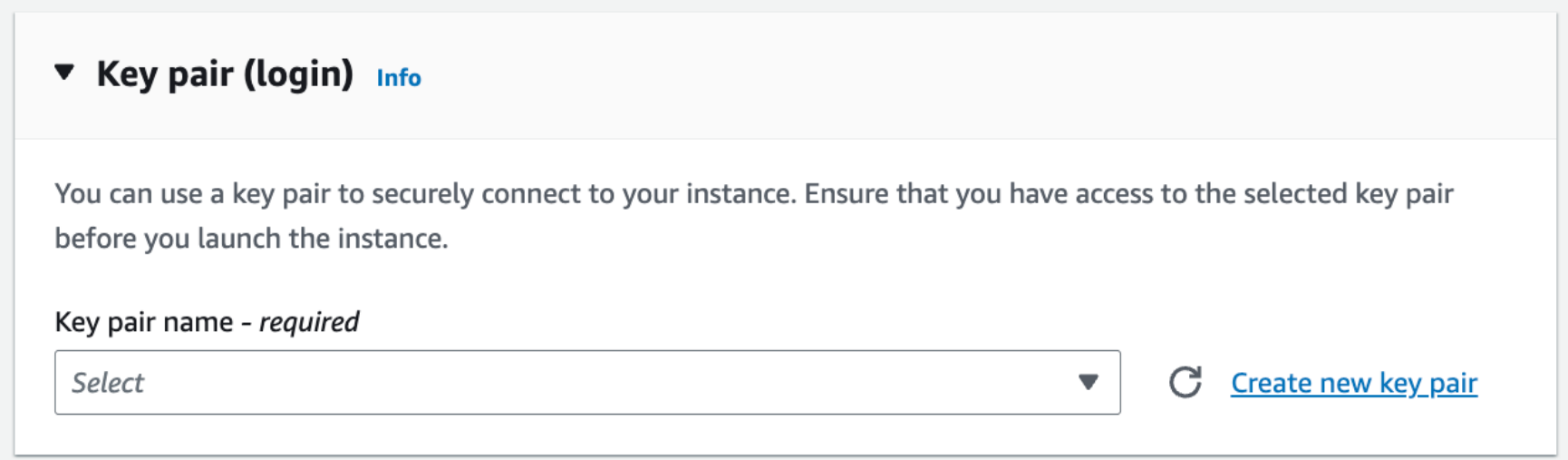


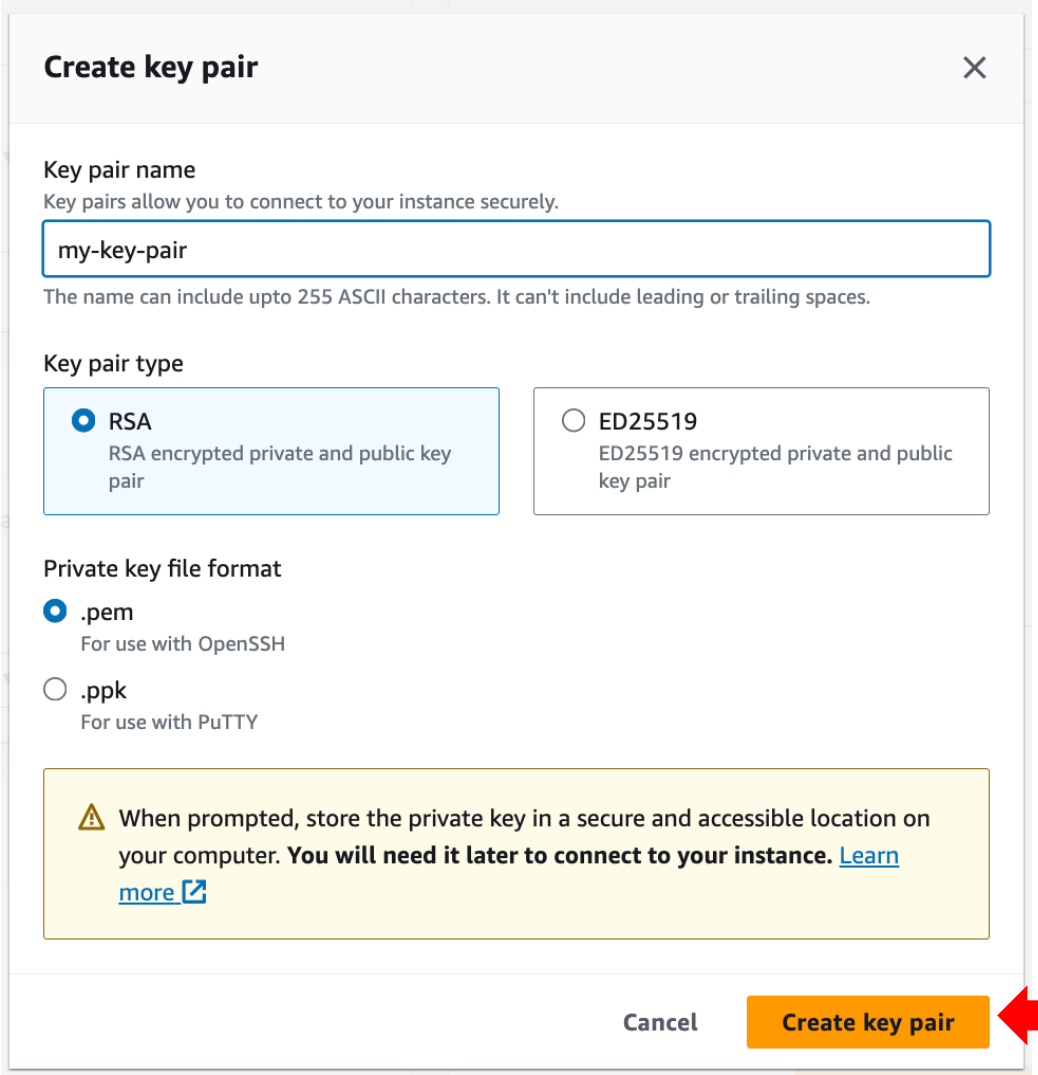
Click on the "Launch instance" orange button which will redirect you to the launch an instance page as shown below.

- fill the *Name* with "mywebserver"
- in the *Quick start* select "Amazon Linux AWS"
- in the *Amazon Machine Image* select "Amazon Linux 2023 AMI"
- in the *Instance type* select "t2.micro Free tier eligible"



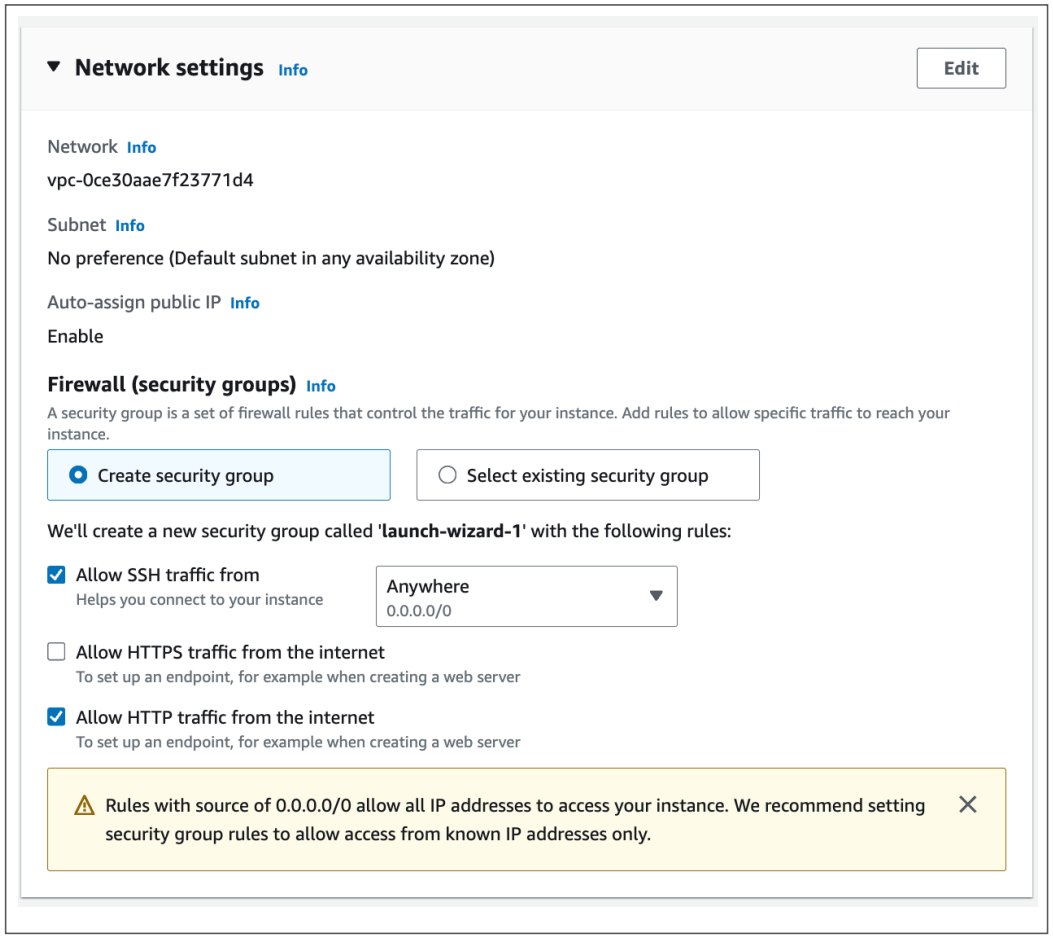
Then we should create a key pair, then click to “Create new key pair” as shown below :



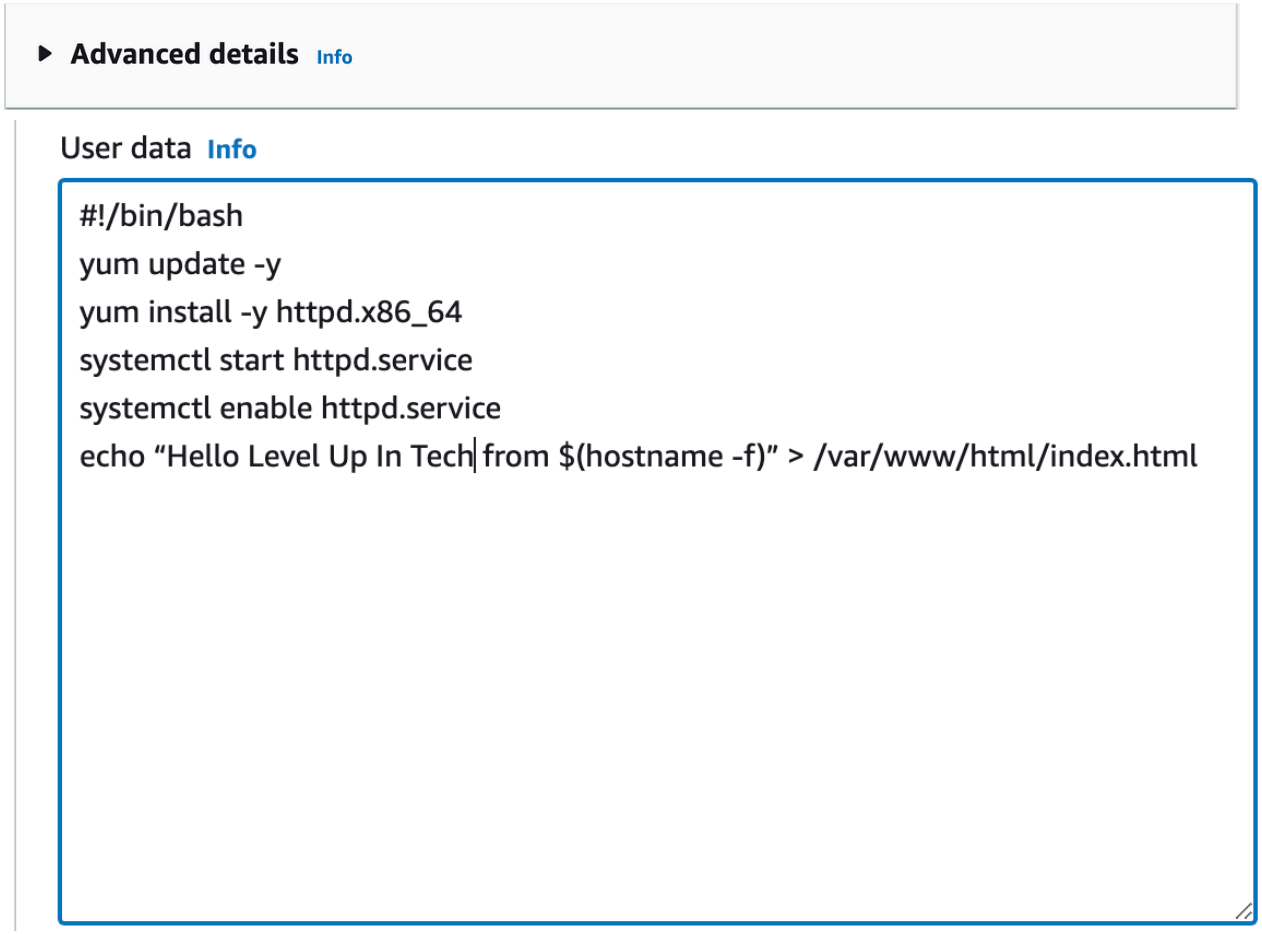


Enter the following setting as shown below, then click on the orange button “Create key pair”, then .pem file will be downloaded into your computer. A key pair consists of a private key and a public key, together it let you connect to your instance without any password.

- Afterward in the “Network settings” we will configured the setting as shown below:
- select “create security group”
- check the box “Allow SSH traffic from”
- check the box “Allow HTTP traffic from the internet”
- It will allow the SSH traffic and HTTP traffic in order to be able to connect to our instance.



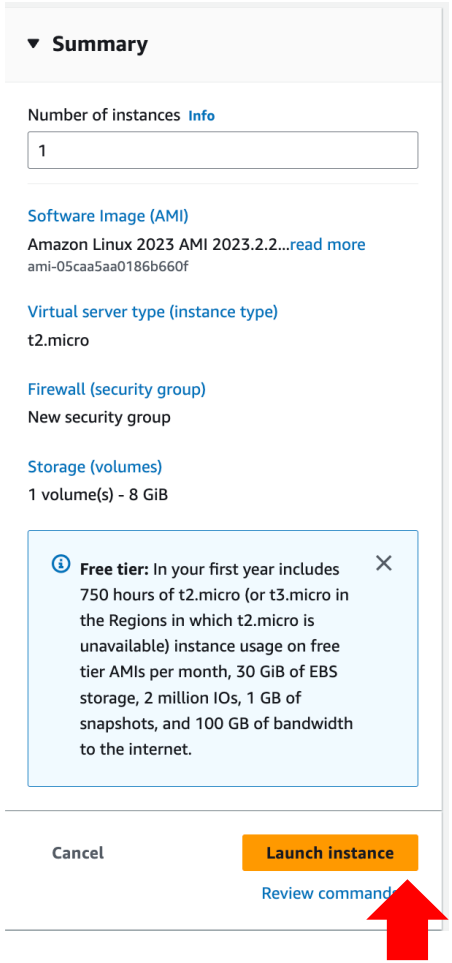
Step 2 - Configure the EC2 User Data Script to updates all packages, install Apache web server



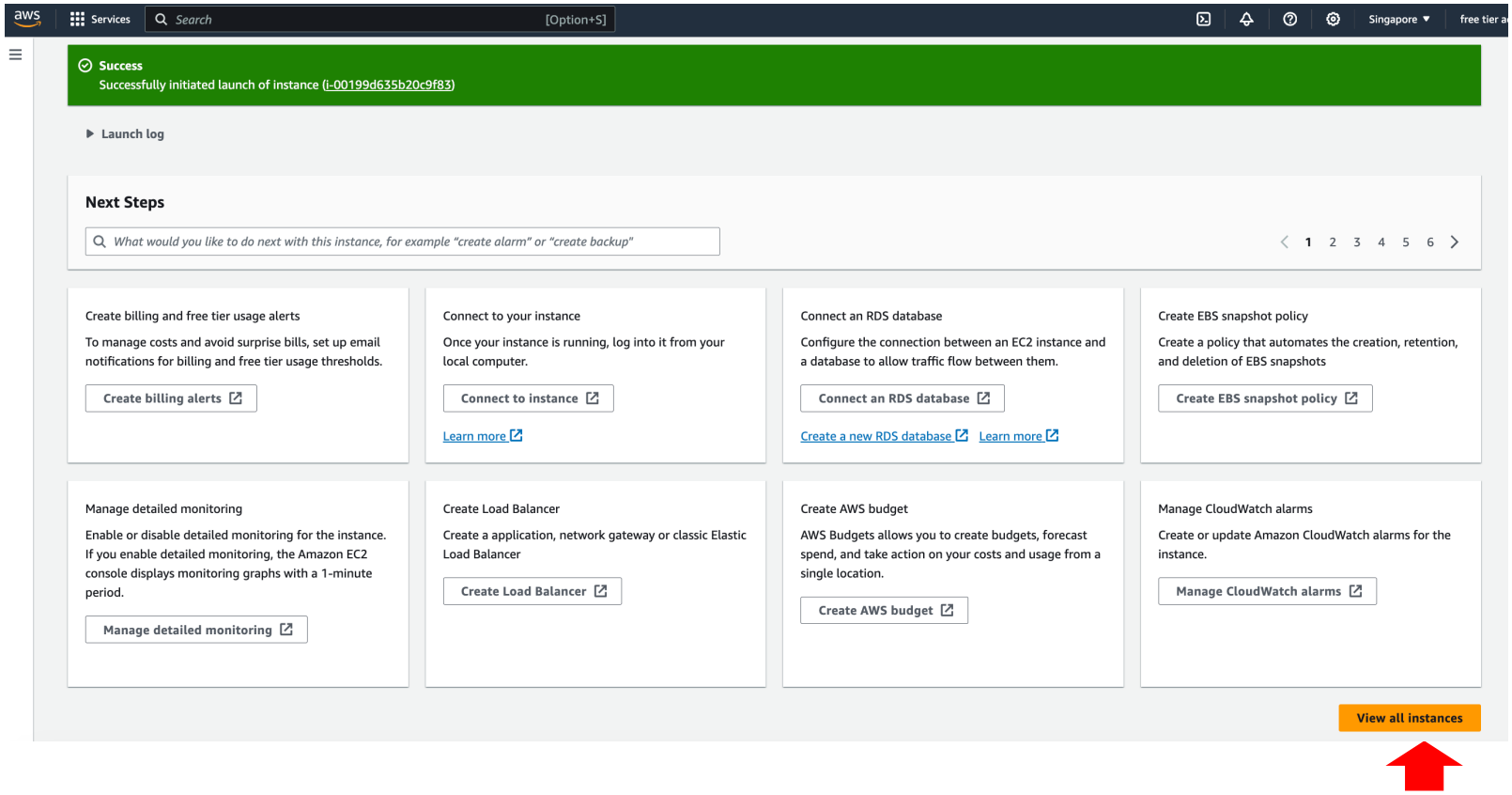
Then in the “Advanced details” under the *User Data Info* place your bash script to update the all packages and install the Apache web server. It will automatically update the package and installed the apache web server as soon as your instance started. This is what we called bootstrapping your instance.

You can download the bash script file from https://github.com/pengbin2015/awstraining/blob/main/user_data.sh

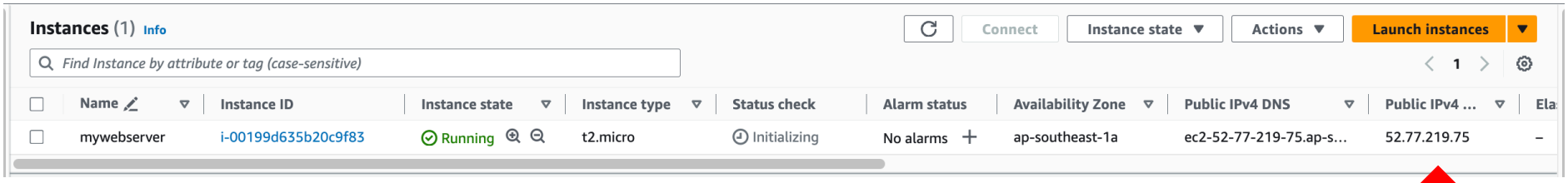
Finally we are able to Launch our instance by selecting the orange button “Launch instance” as shown below :



the instance has been created successful and then click on the orange button to “View all instances”

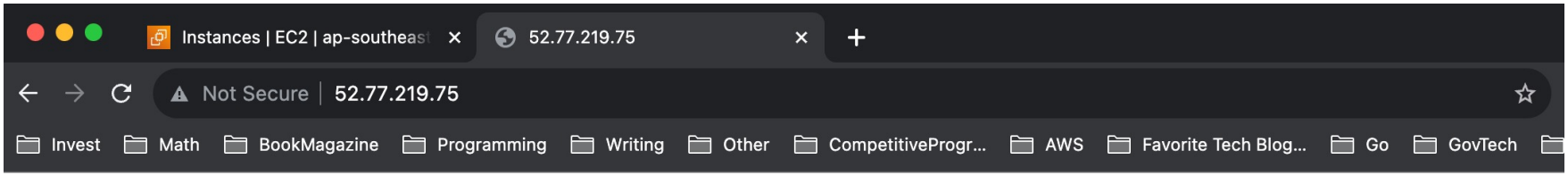


In the Instances dashboard we see that the instance is up and running



Step 3 - Verify that the instance has the Apache web server downloaded and installed through the public IP

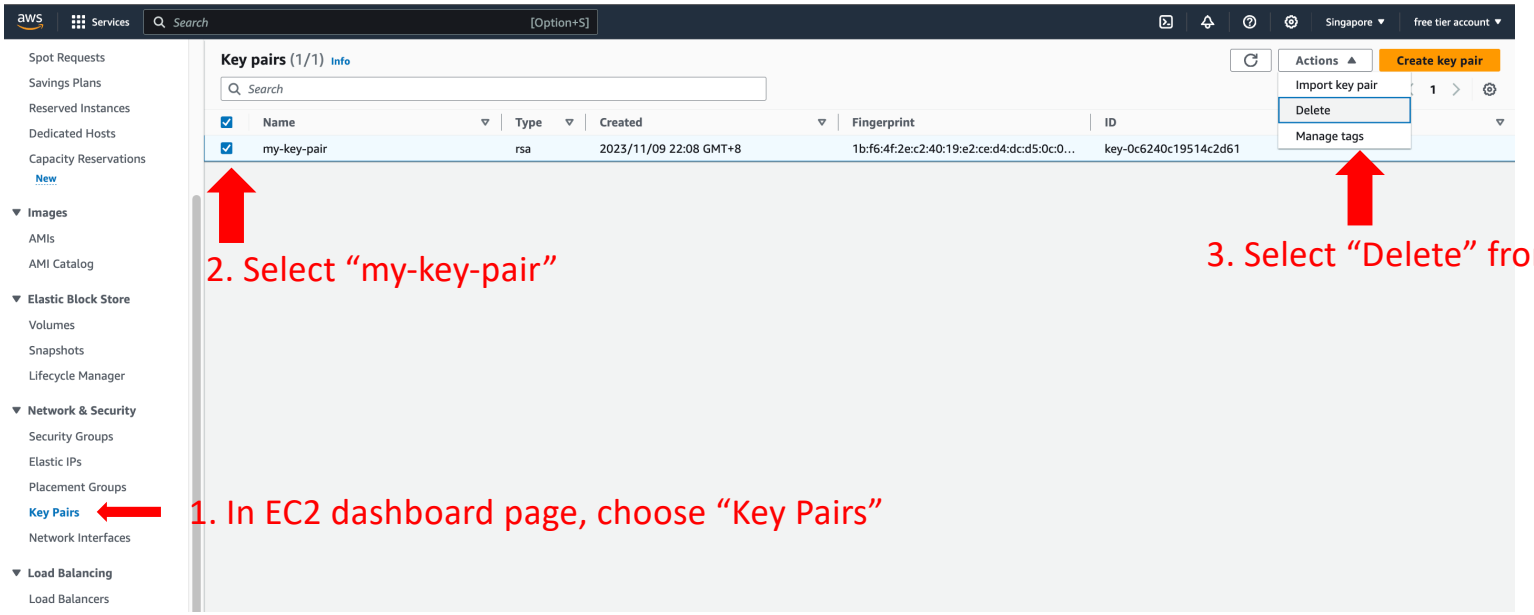
Finally, put the IPv4 public IP address from the instance into the URL of our web browser. We should have this web page as shown below



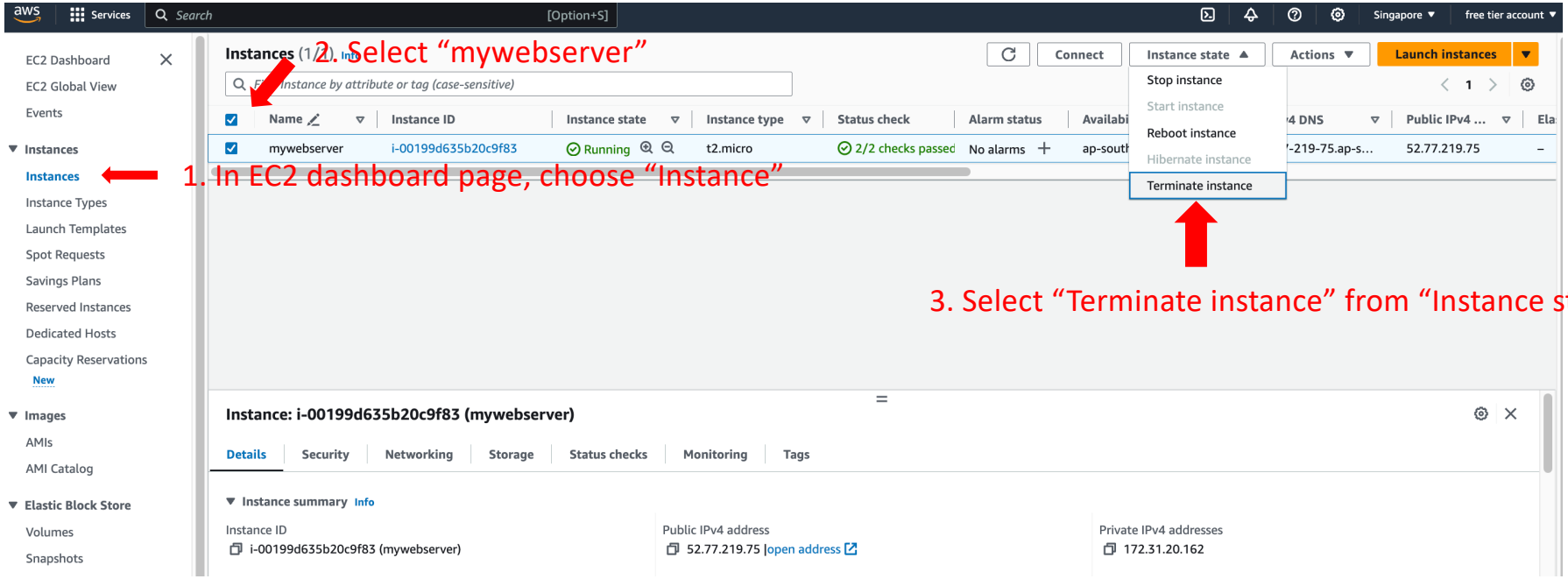
Hello Level Up In Tech from ip-172-31-20-162.ap-southeast-1.compute.internal

Step 4 - Clean Up

Delete Key Pair



Delete EC2 Instance



Wait for a few minutes, the “**instance state**” becomes “**Terminated**”. It means the EC 2 instance has been deleted.