

DEVELOP A RESPONSIVE WEBSITE AND DEPLOY ON AWS

GUIDE BOOK

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What is AWS Cloud?

AWS (Amazon Web Services) is a cloud computing platform.

The first product (S3) was released in 2006.

AWS has grown a lot since then in both size and product range.

It is, to date, the largest cloud provider in the world.

Why Learn AWS?

AWS is the largest of the cloud providers

AWS competence is popular in the job market

You can do most things in the AWS Cloud

Big community/support

What is the Client-Server Model?

The Client-Server model is about a client that interacts and makes requests to a computer server. A client is the way that the person interacts with the server.

What is Cloud Computing?

Cloud computing is a computing service made available over the internet.

Cloud computing is a pay-as-you-go model for delivering IT resources.

You pay only for what you use.

Deployment Models

There are three different kinds of deployment models:

Cloud-based

On-premises

Hybrid

The models are different ways of accessing compute services - over the internet, locally, or in a combination.

Cloud-Based Deployment

Everything runs in the cloud.

This model allows you to build new applications or move existing ones to the cloud.

There are different levels of services ranging from low to high.

The level of service has different requirements on your management, architecting, and infrastructure.

For example, a company might create an application consisting of virtual servers, databases, and networking components entirely based in the cloud.

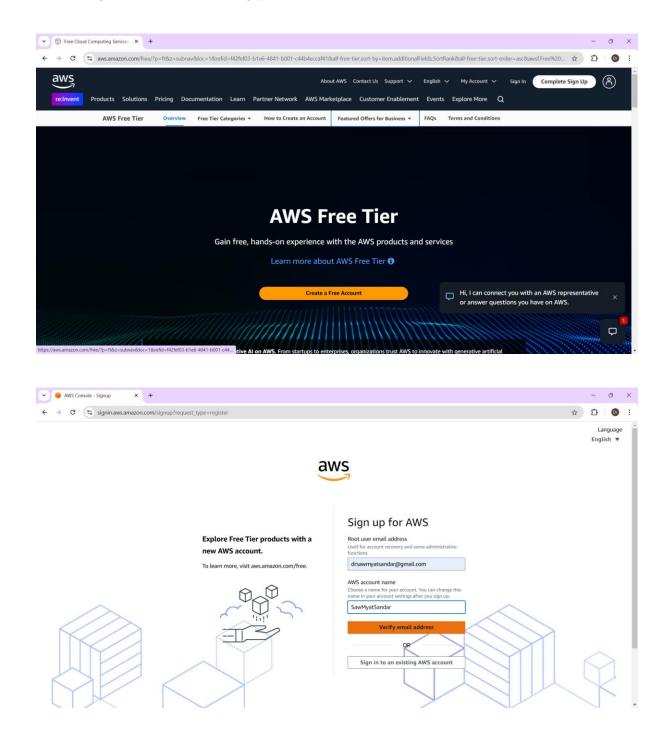


Create Free AWS account

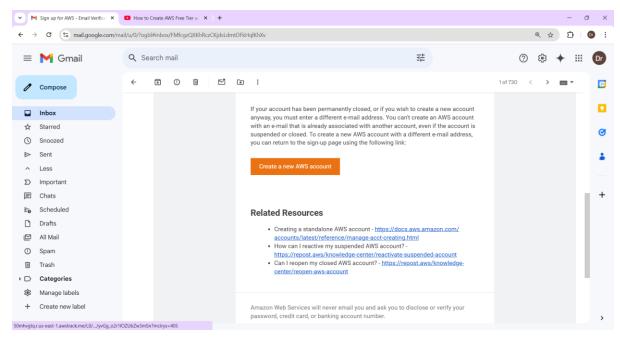
AWS offers a free tier, letting you explore and try out their services.

The free tier offers you limited use of services for free.

So let us get started with creating your free account!

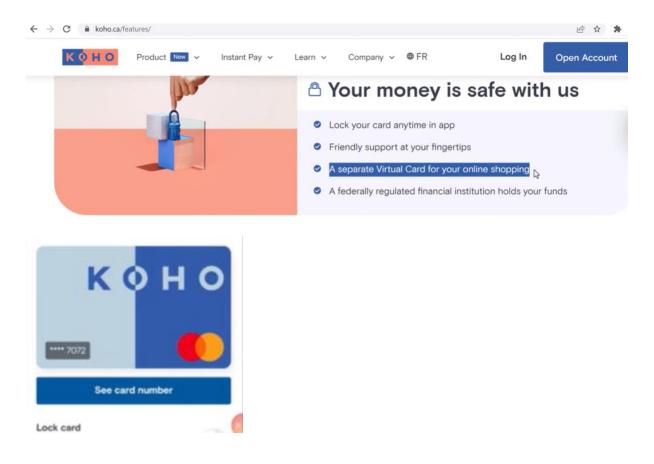




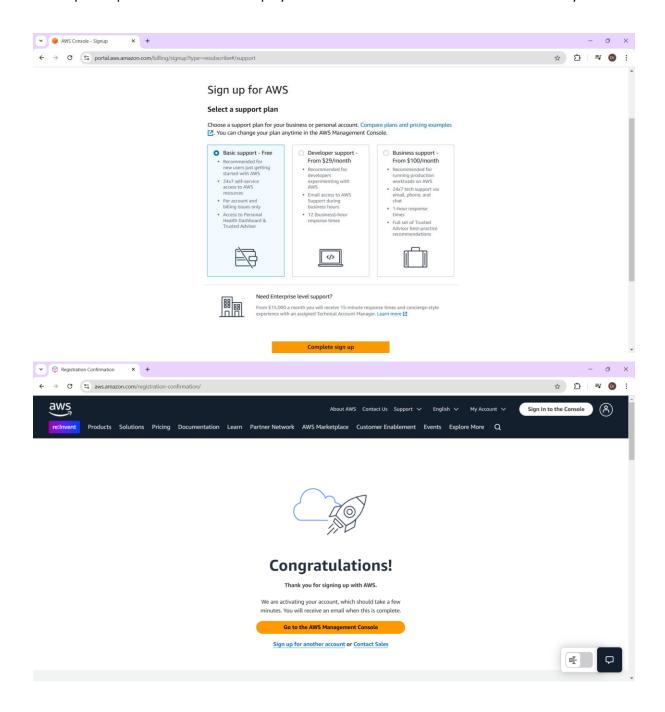


Visa card အဟောင်းကို အသုံးပြုနိုင်သလို Virtual Account ကို အသုံးပြုပြီးတော့လည်း ဖွင့်လို့ရပါတယ်။

Old Visa card or Virtual Account like KOHO can be used to create an AWS free account.



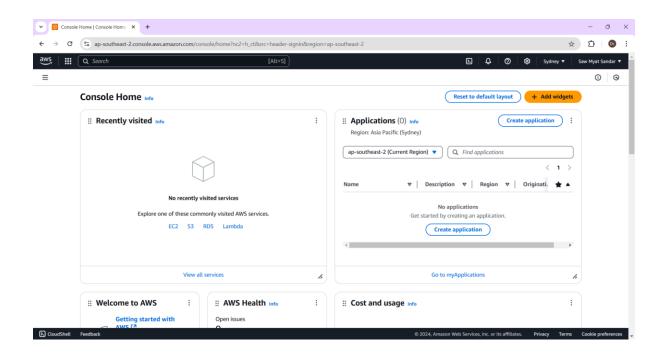






AWS Console

https://ap-southeast-2.console.aws.amazon.com/console/home?nc2=h_ct&src=header-signin®ion=ap-southeast-2

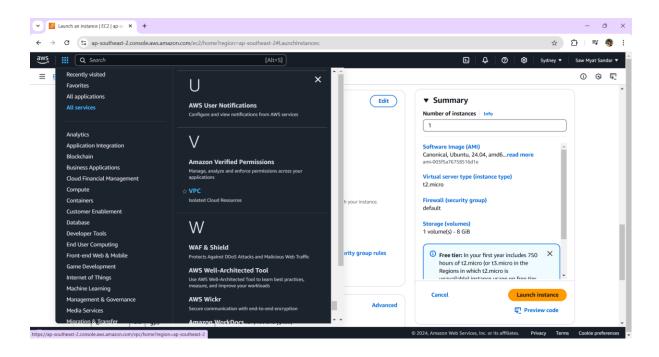




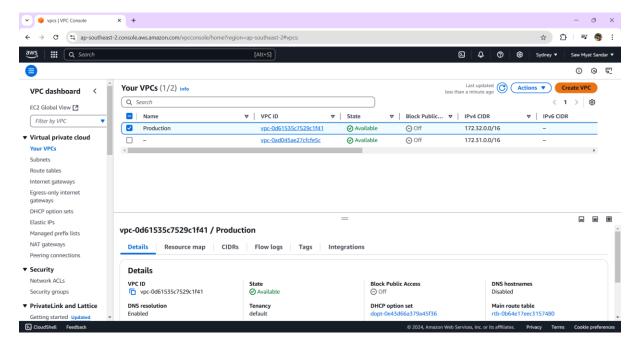
AWS VPC

VPC is Virtual Private Cloud

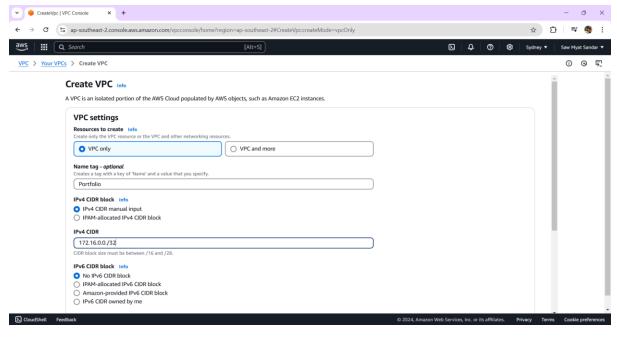
- 1. VPC
- 2. Internet Gateway
- 3. Subnet
- 4. Route Table



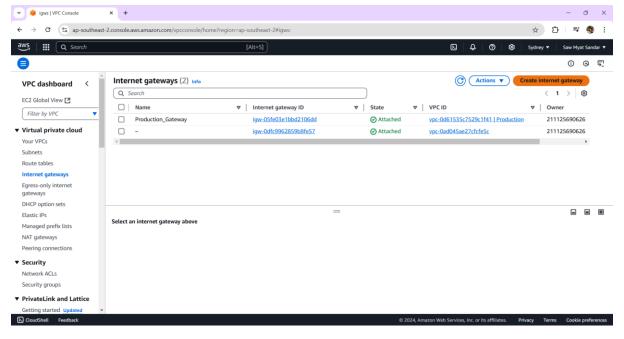
Your VPC







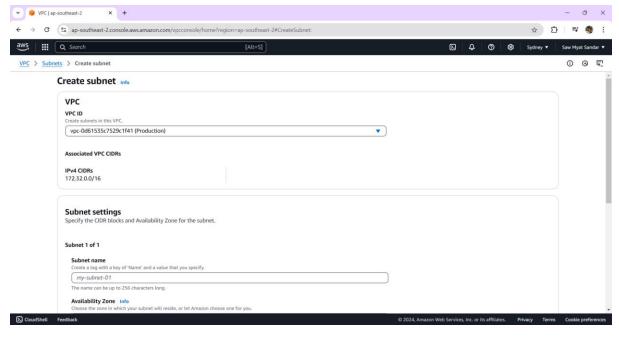
Internet Gateway



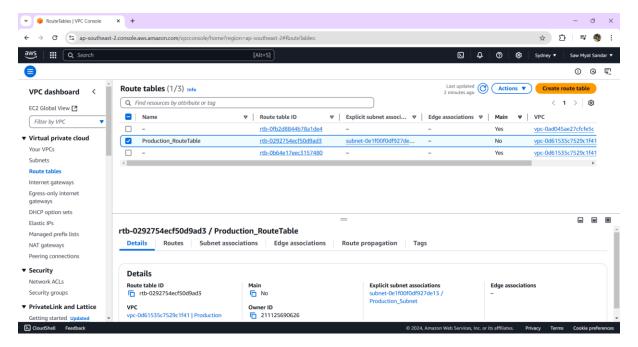
Subnet







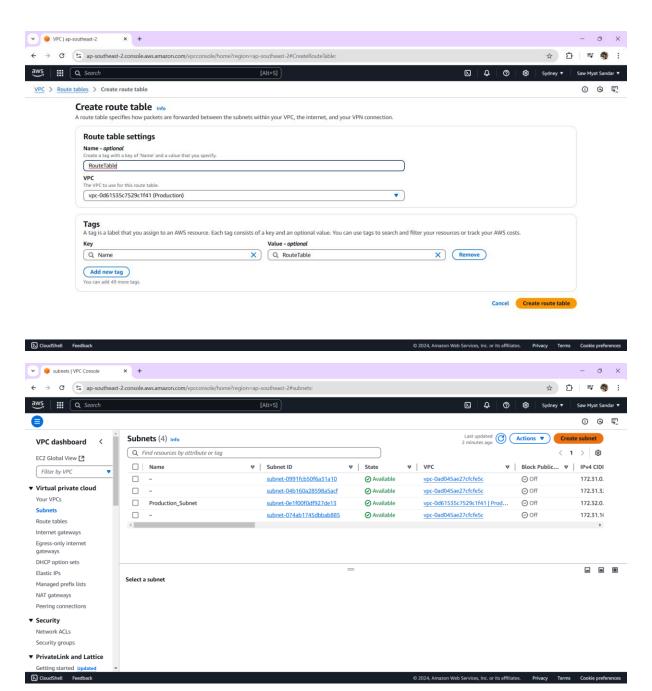
Route Table











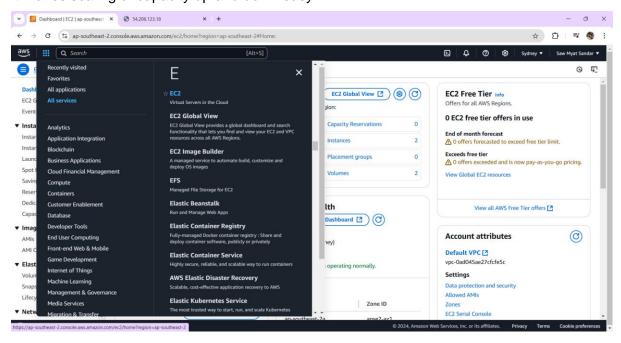


AWS EC2

C2 is a virtual server in the AWS Cloud.

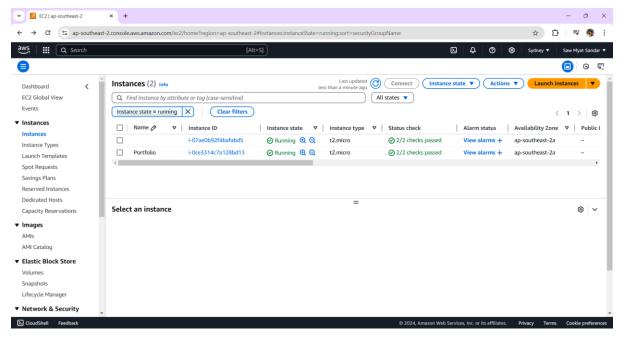
AWS EC2 is short for AWS Elastic Cloud Compute.

It makes scaling of capacity up and down easy.



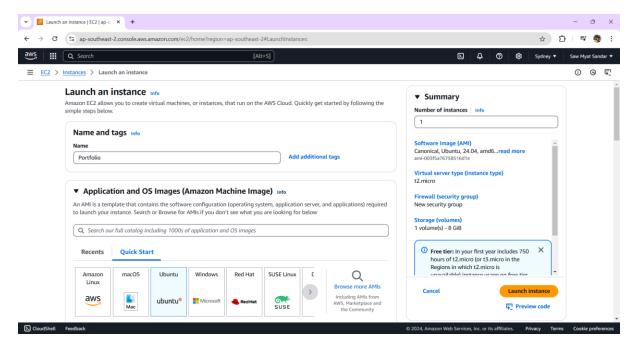
Create Instance

Select the Instances under the Services of AWS console.

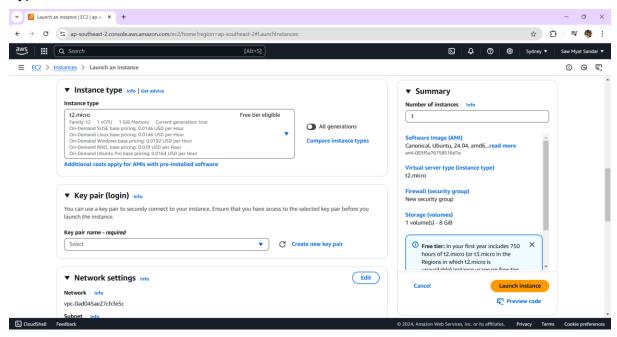


Click 'Launch instance' to create a new instance.



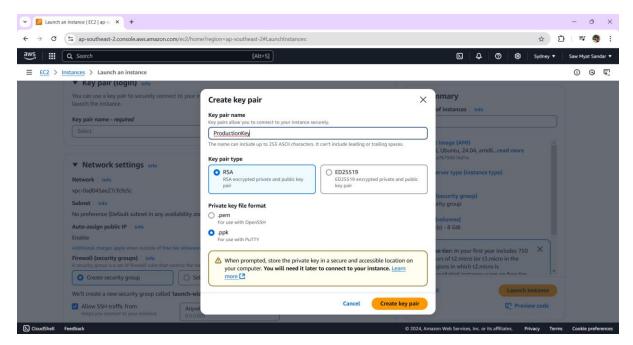


Type the name such as 'Portfolio' and select Ubuntu to create a Linux server.

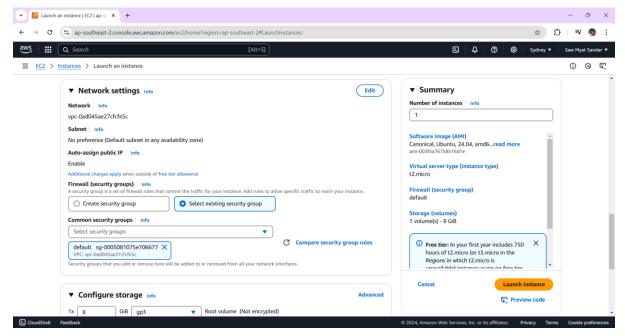


Select 'Free tier eligible' for free version and create new key pair.

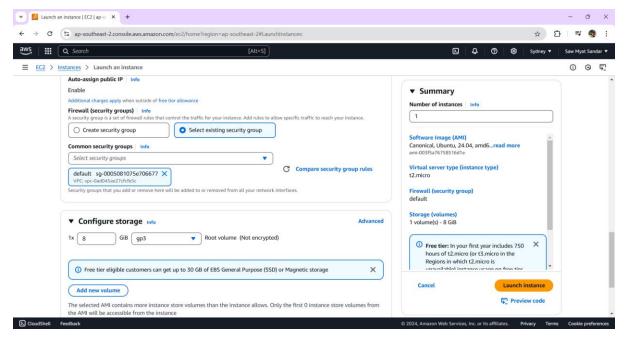




Select Security Group. If you have already created a new security group, select existing security group.





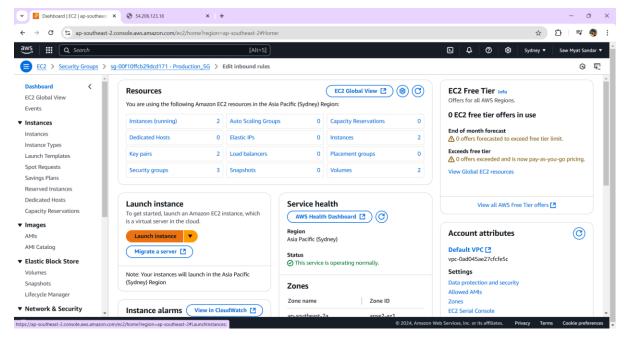


The most important thing is you need to select 'Enable' in Auto-assign public IP.

Number of instances is 1.

You do not need to change Configure storage. Check your configuration again and click 'Launch instance'.

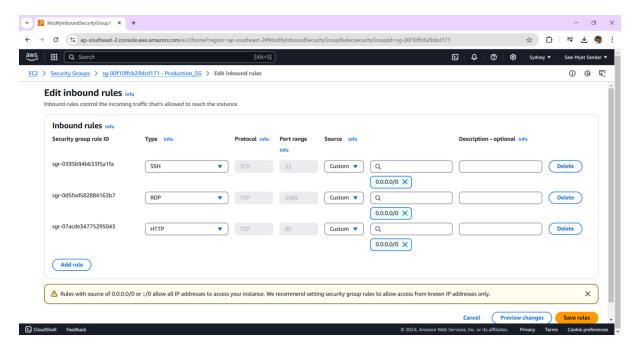
After that you need to change 'Security Groups Inbound Rules'



Security Groups Inbound Rules

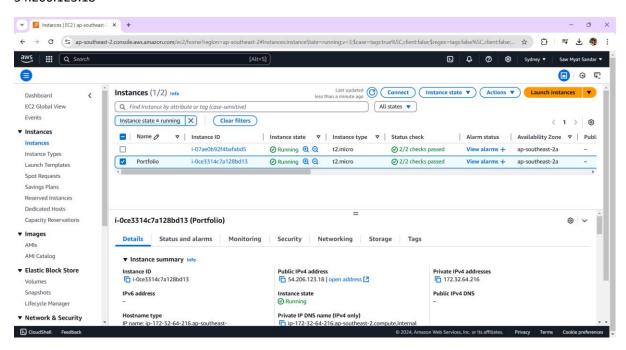
Inbound Rules

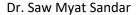




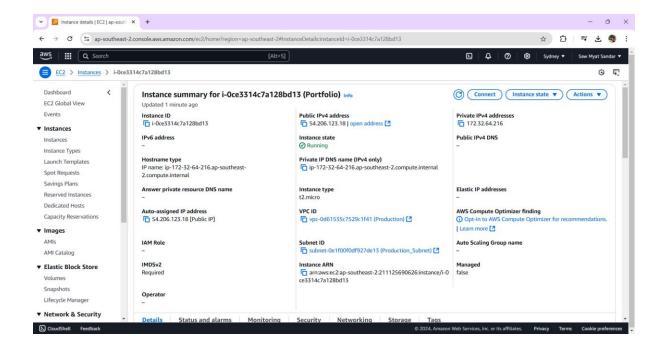
After changing the inbound rules, the status check shows 2/2 checks passed as shown below.

54.206.123.18







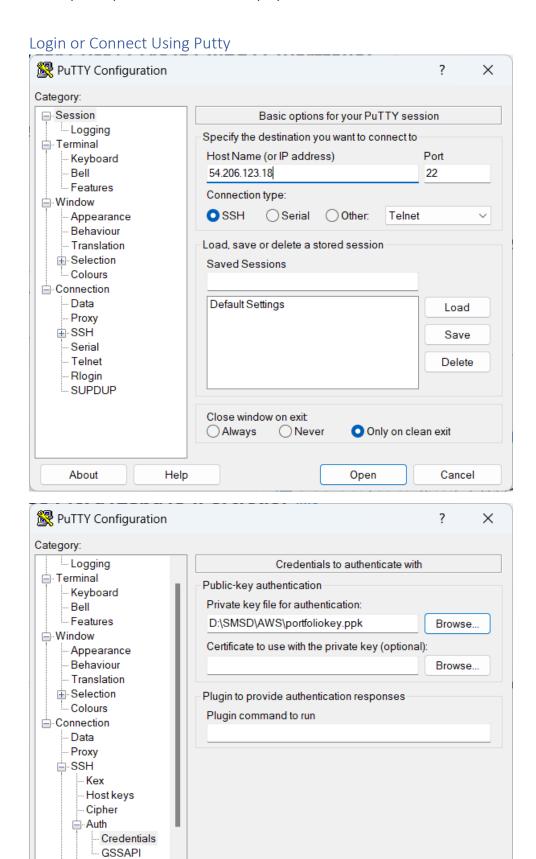


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Open

Cancel



Commands in Putty

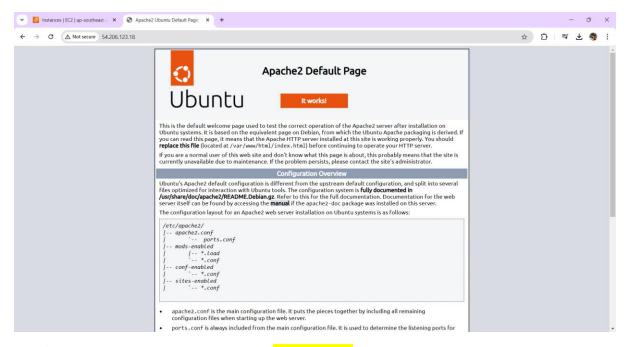
login as: ubuntu

ubuntu@linuxserver:~\$ sudo su

root@linuxserver:/home/ubuntu# apt-get update && apt-get upgrade -y

root@linuxserver:/home/ubuntu# apt-get install apache2 -y

http://54.206.123.18/



root@ip-172-32-64-216:/home/ubuntu# cd /var/www

root@ip-172-32-64-216:/var/www# cd html/

root@ip-172-32-64-216:/var/www/html# ls

root@ip-172-32-64-216:/var/www/html# vim index.html

copy the following code, go to putty and click "I" and right click on mouse.

Type :wq to save and exit



root@ip-172-32-64-216:/var/www/html# vim index.html

:wq

root@ip-172-32-64-216:/var/www/html# etc/init.d/apache2 restart

Refresh the browser

