# Generate OpenSSL Certificate on EC2 Instance.

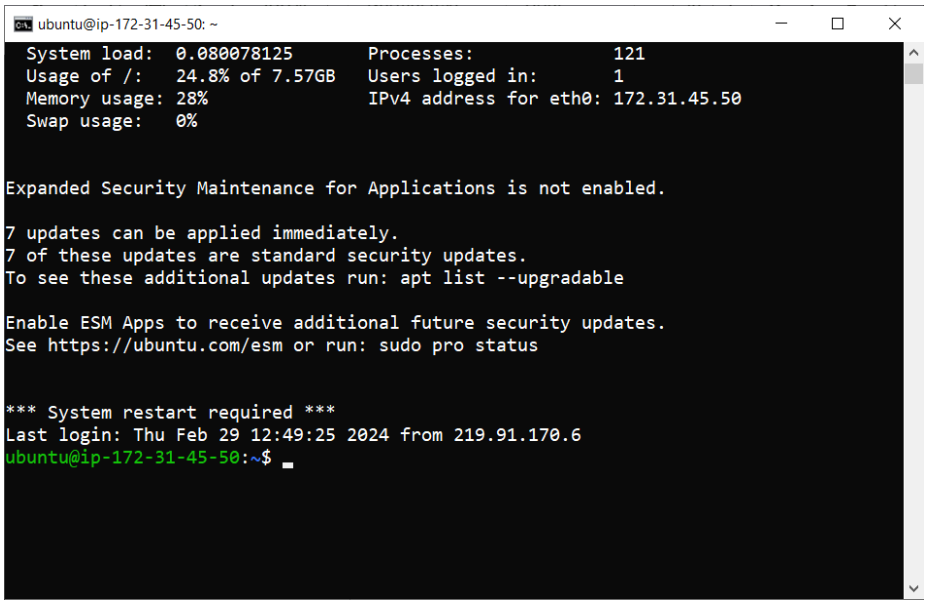
**Step 1 : Launch EC2 Instance**

Sign-in into your AWS account and go to the EC2 service console.

Select **Launch Instance** option, provide name for your instance and select the machine image you want. I am using an Ubuntu image for this task.

Next select the Key-Pair that you will use to connect to your instance. While adding the security group to your instance make sure that it allows the inbound traffic on port 22 for SSH.

Click on **Launch Instance** to launch your instance. Once the instance is in running state, use any terminal to SSH into your EC2 Instance.



Run following commands to update and upgrade your Ubuntu EC2 instance.

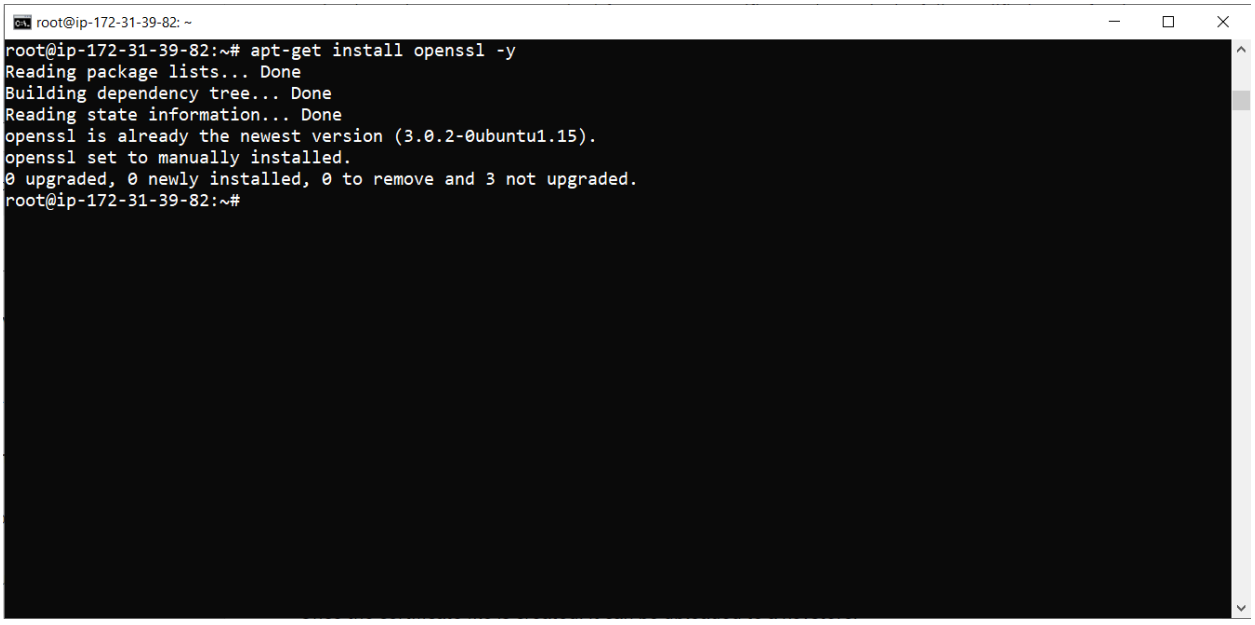
***sudo apt-get update***

***sudo apt-get upgrade***

**Step 2 : Install OpenSSL client.**

To generate a self signed certificate we first need to install OpenSSL Client on our EC2 Instance. We will use following command to install OpenSSL client.

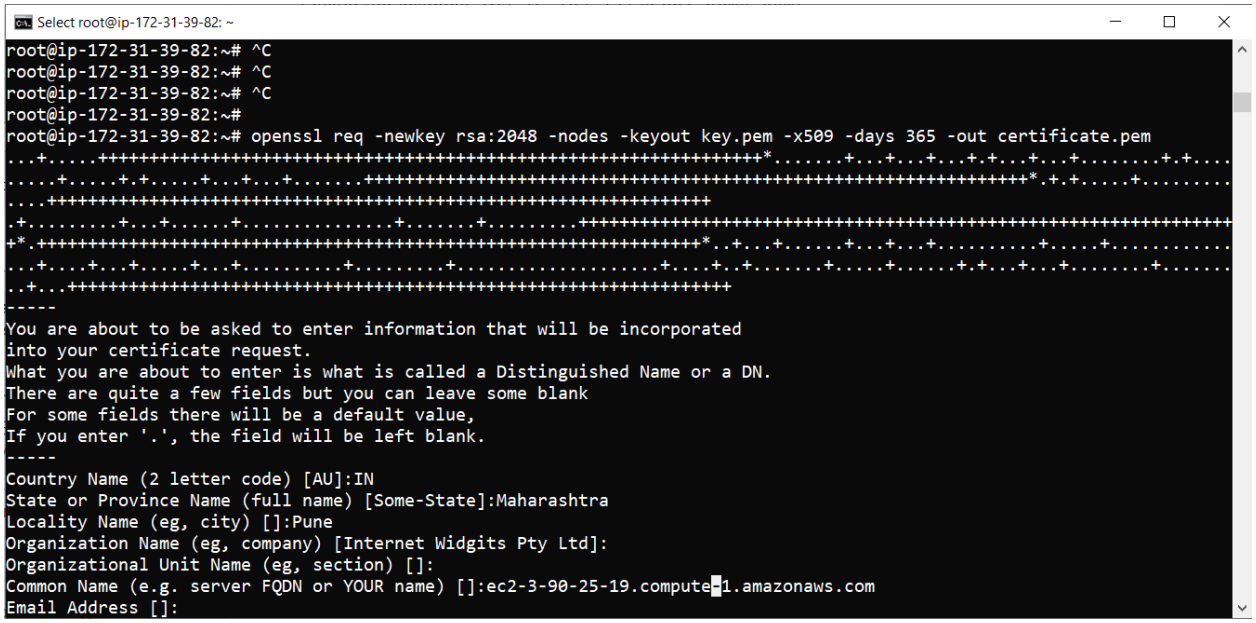
***sudo apt-get install openssl***



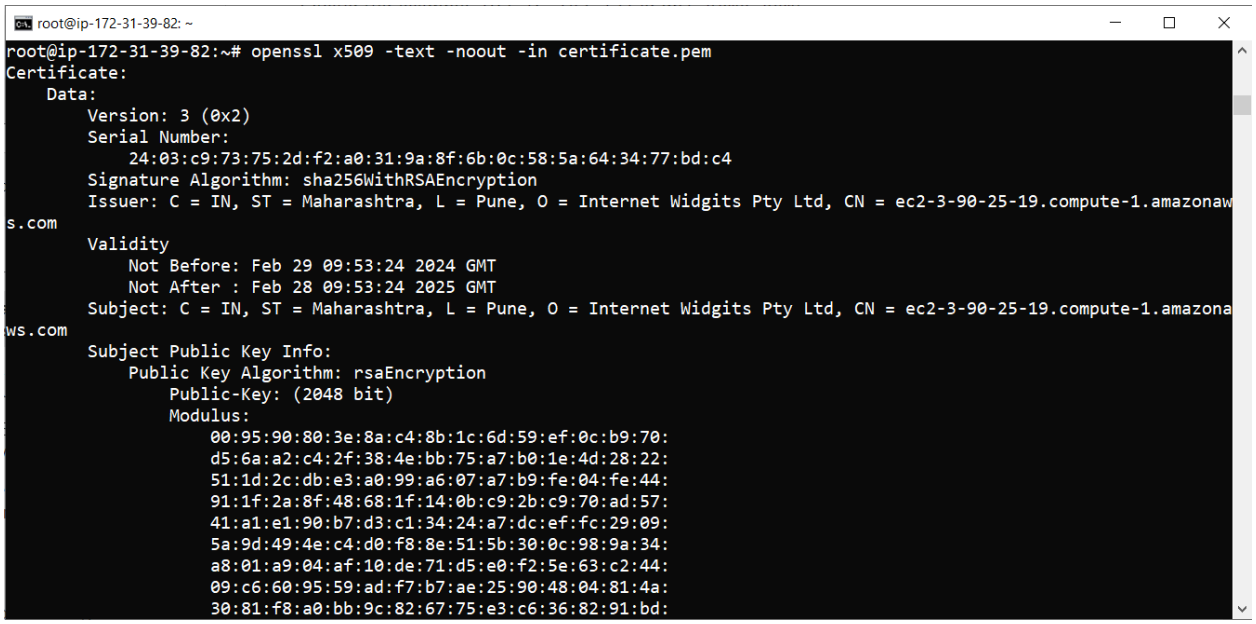

**Step 2 : Generate a certificate.**

Next step is to generate a certificate, you following command to generate a self signed SSL certificate.

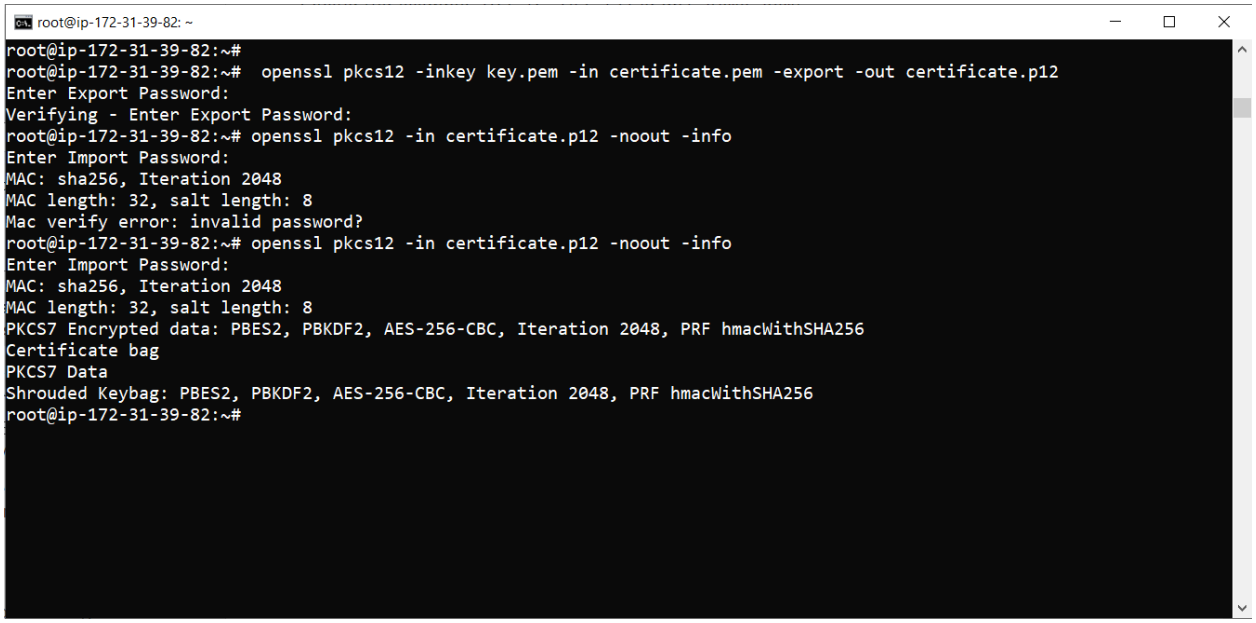
## *openssl req -newkey rsa:2048 -nodes -keyout key.pem -x509 -days 365 -out certificate.pem*



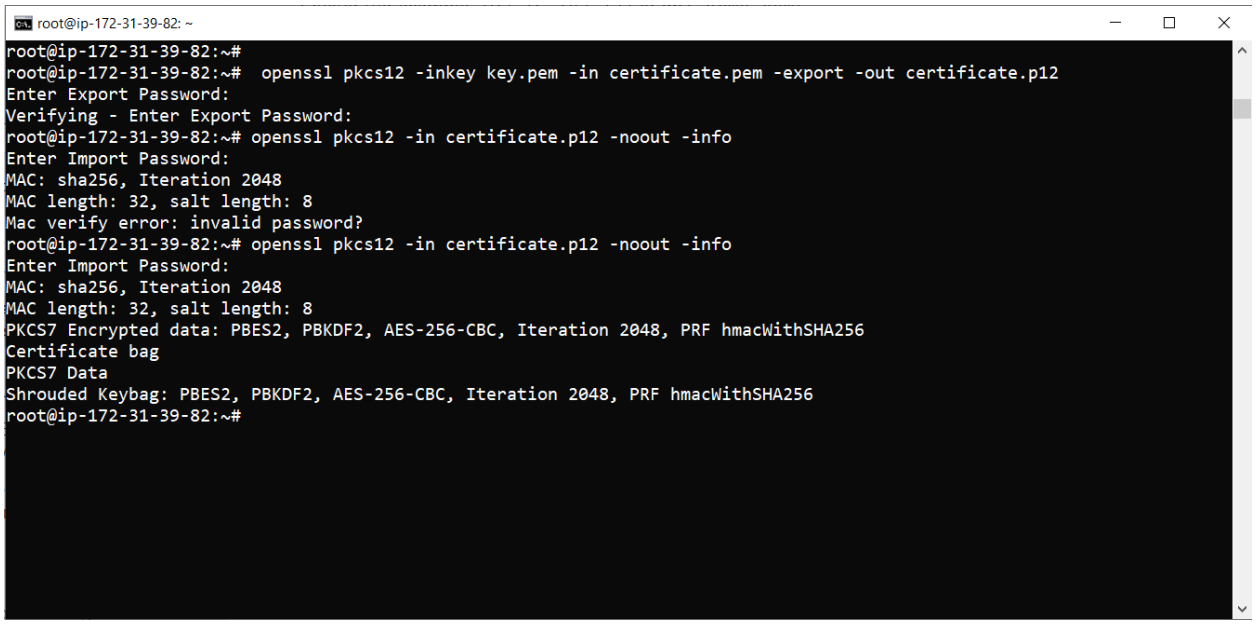

## *openssl x509 -text -noout -in certificate.pem*



## *openssl pkcs12 -inkey key.pem -in certificate.pem -export -out certificate.p12*

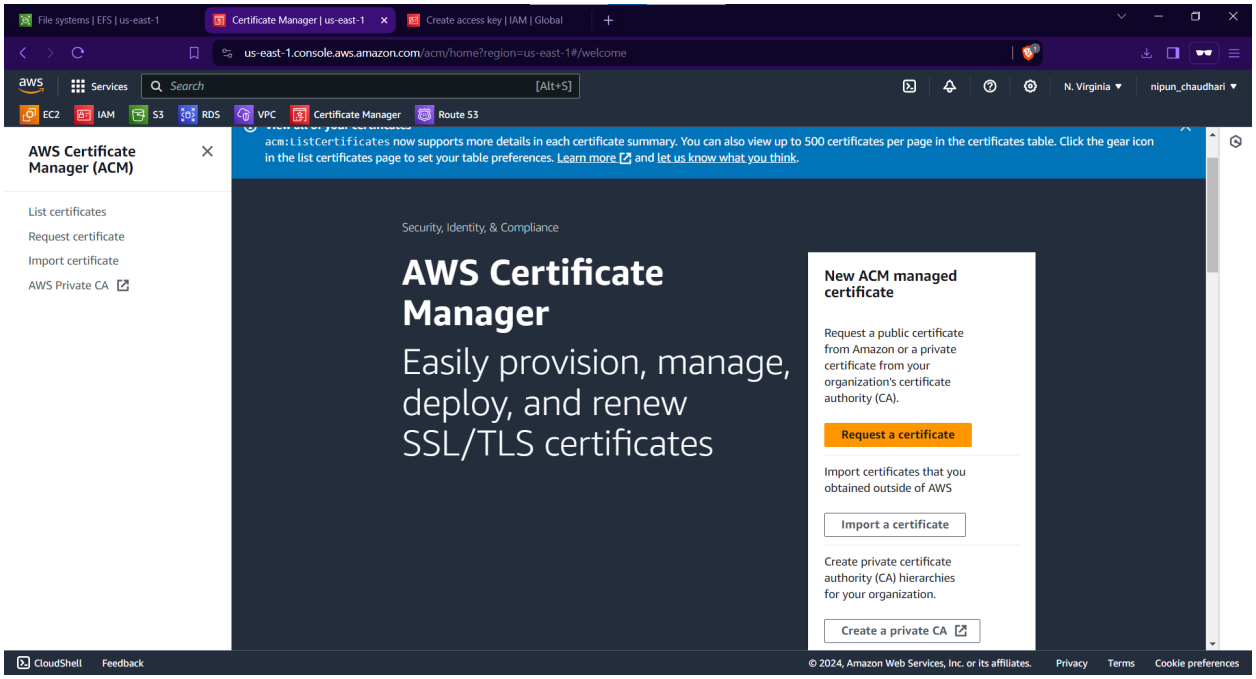



## *openssl pkcs12 -in certificate.p12 -noout -info*

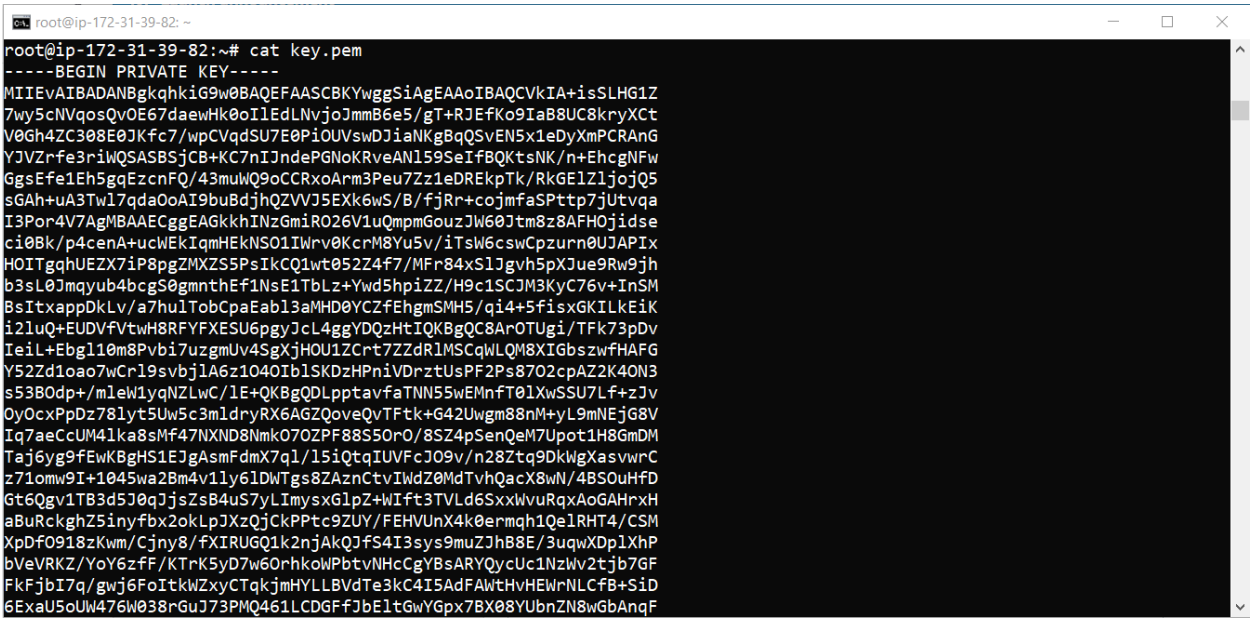


## Step 3 : Import the generated certificate in AWS Certificate Manager Service.

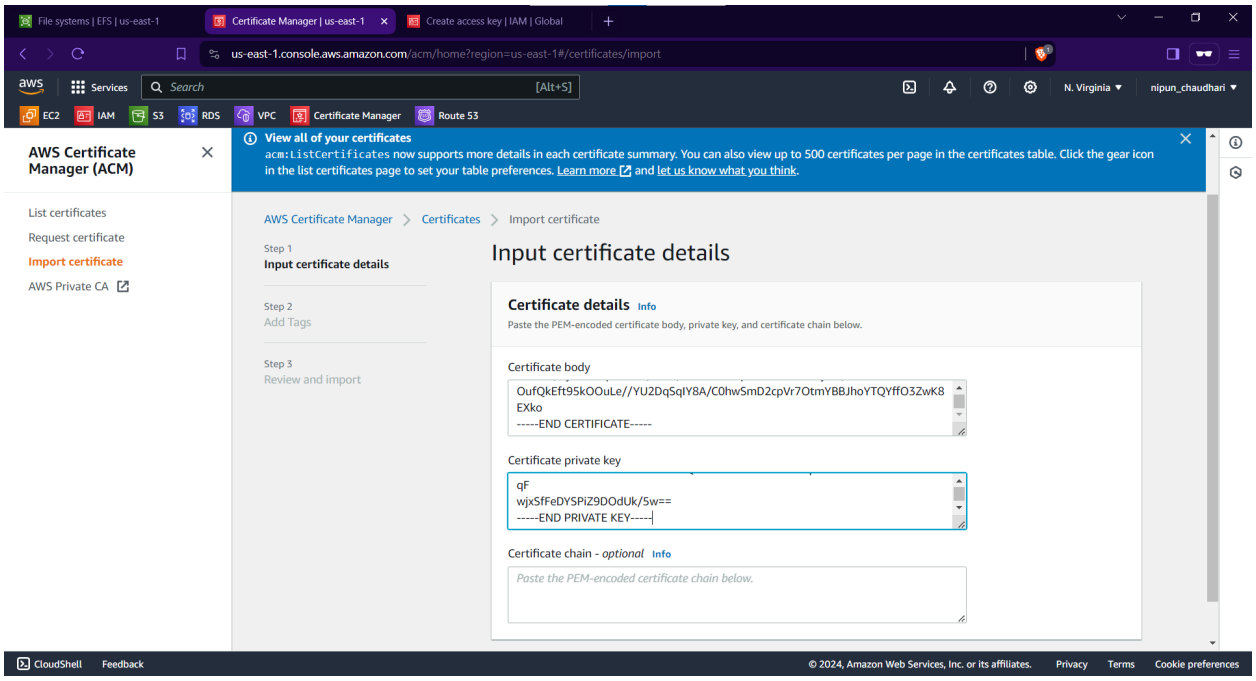
Sign-in into your AWS account and navigate to AWS Certificate Manager Service console. Click on “Import Certificate”.



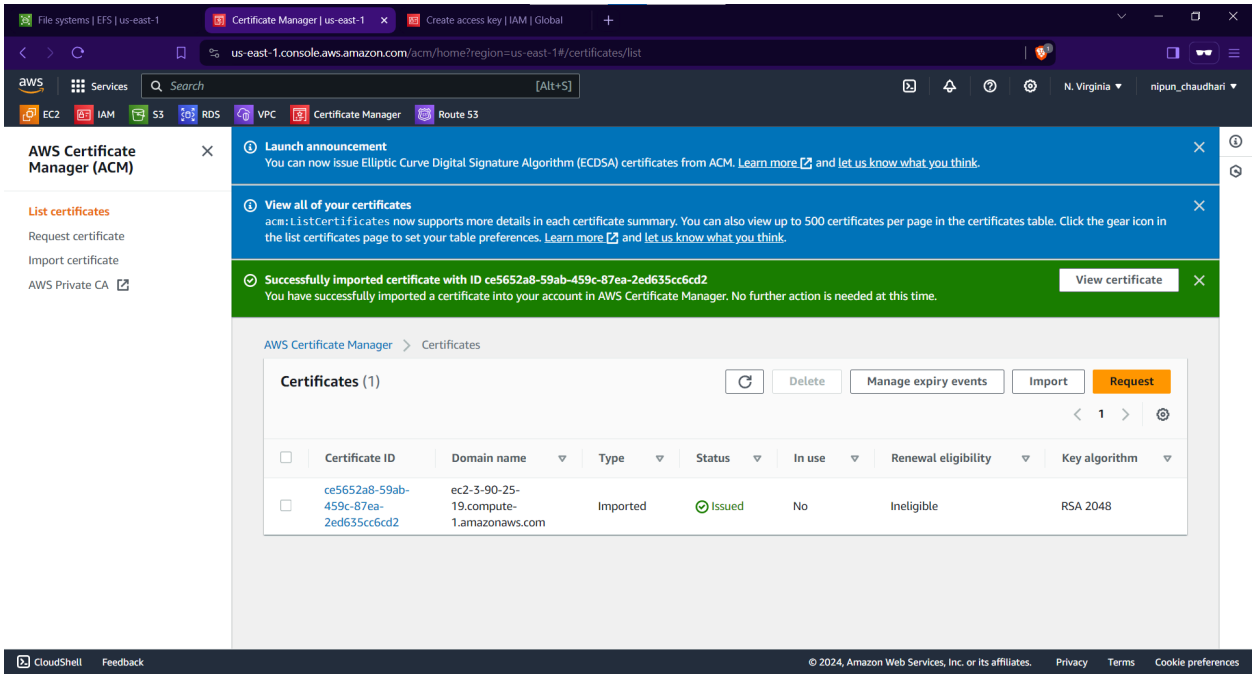

Go to your instance and copy certificate body and key.




Paste this key in certificate body and key body fields in AWS Certificate manager > Import Certificate as shown below.




Click on Next, then review your certificate details and click on Import.




The window above will appear if import is successful.