Course: Online Session AWS Weekday BC=230404

Project– Project-1

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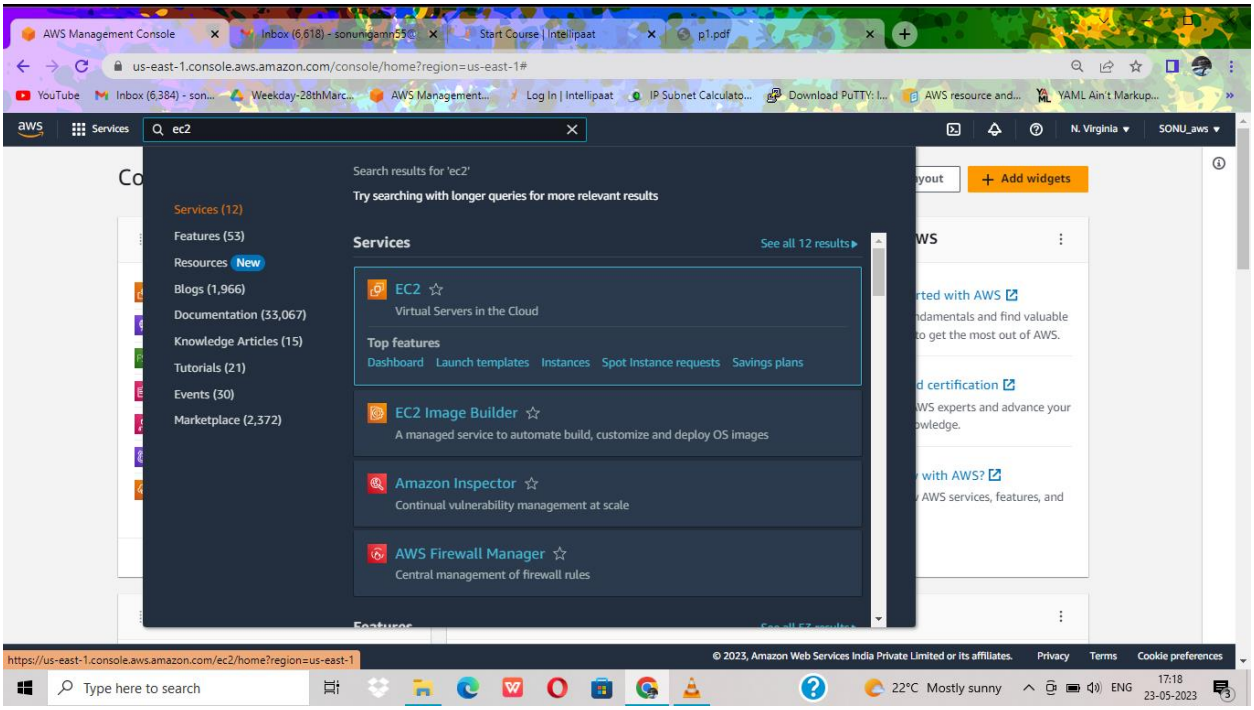
Problem Statement:

Company ABC wants to move their product to AWS. They have the following things setup right now:

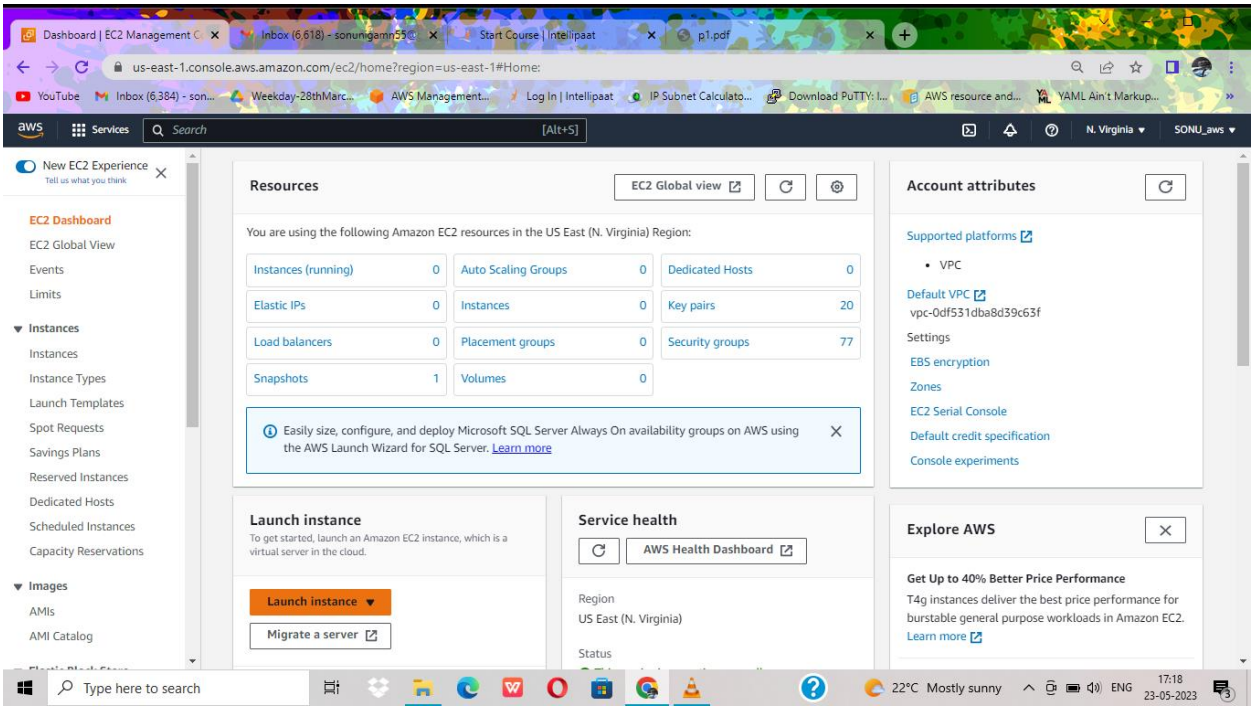
1. MySQL DB

2. Website (PHP) The company wants high availability on this product, therefore wants autoscaling to be enabled on this website..

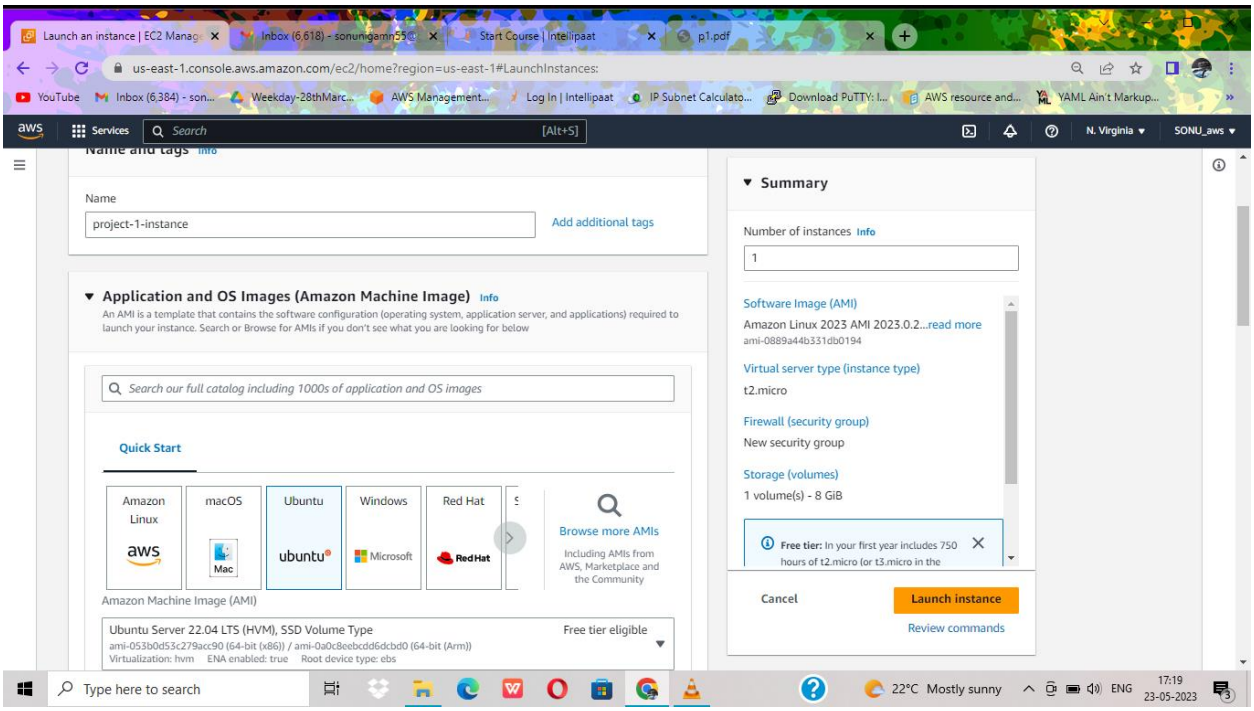
1.Going to the EC2 dashboard



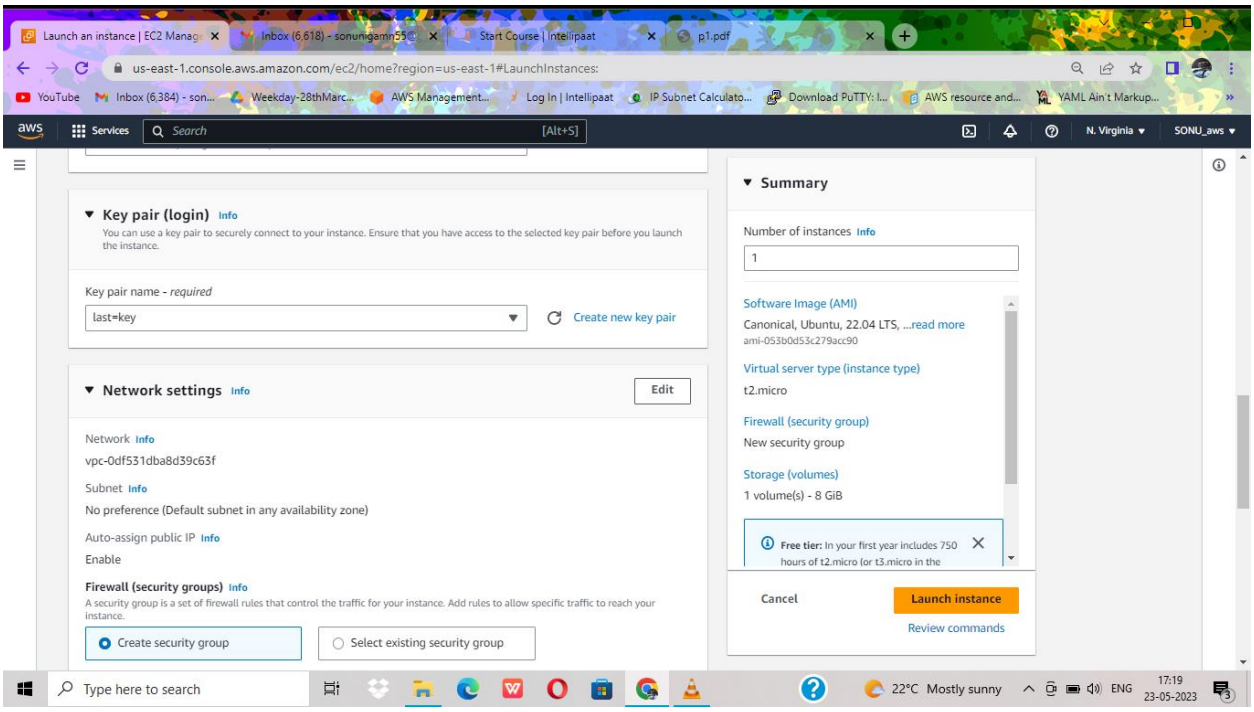
2 clicking on launch instance



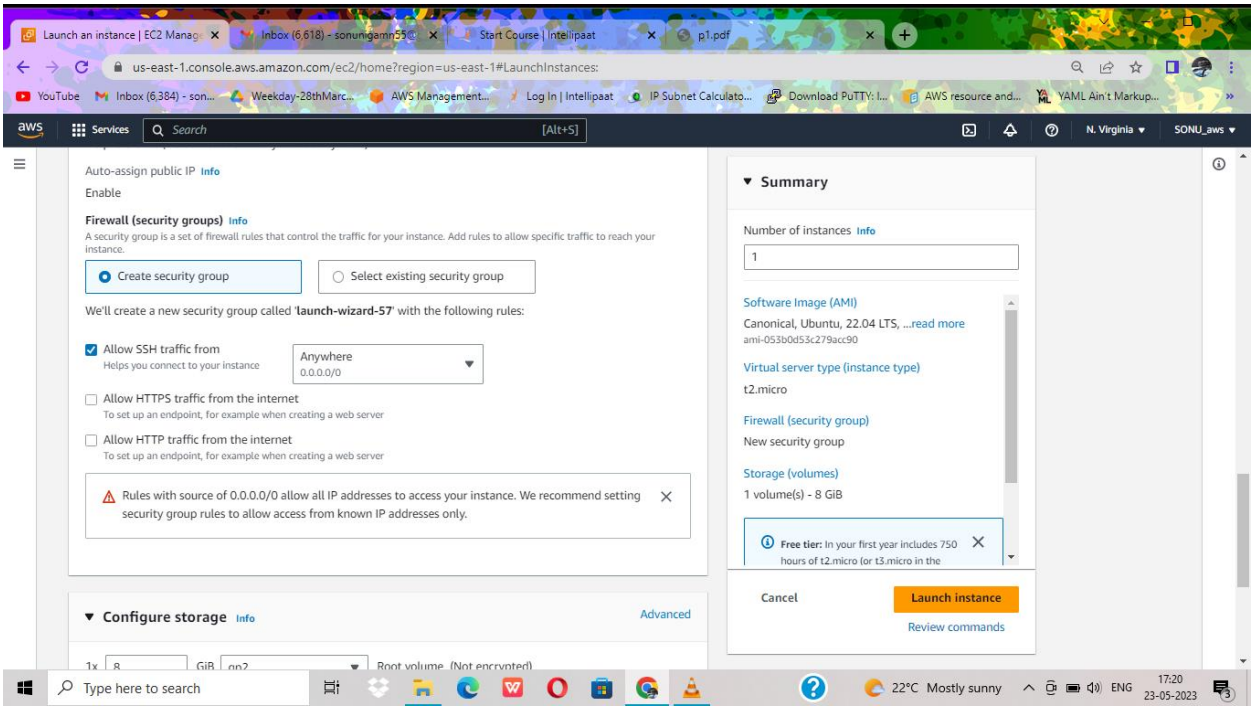
3 giving name and choosing AMI



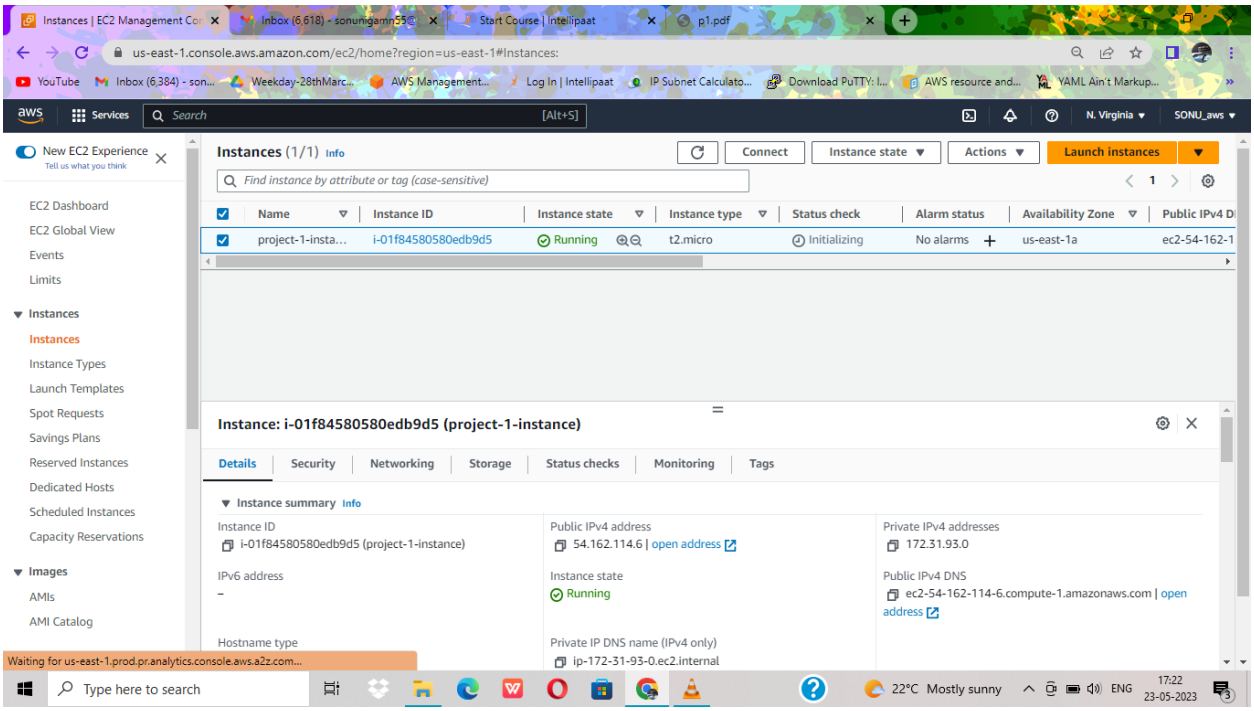
4 we select key pair



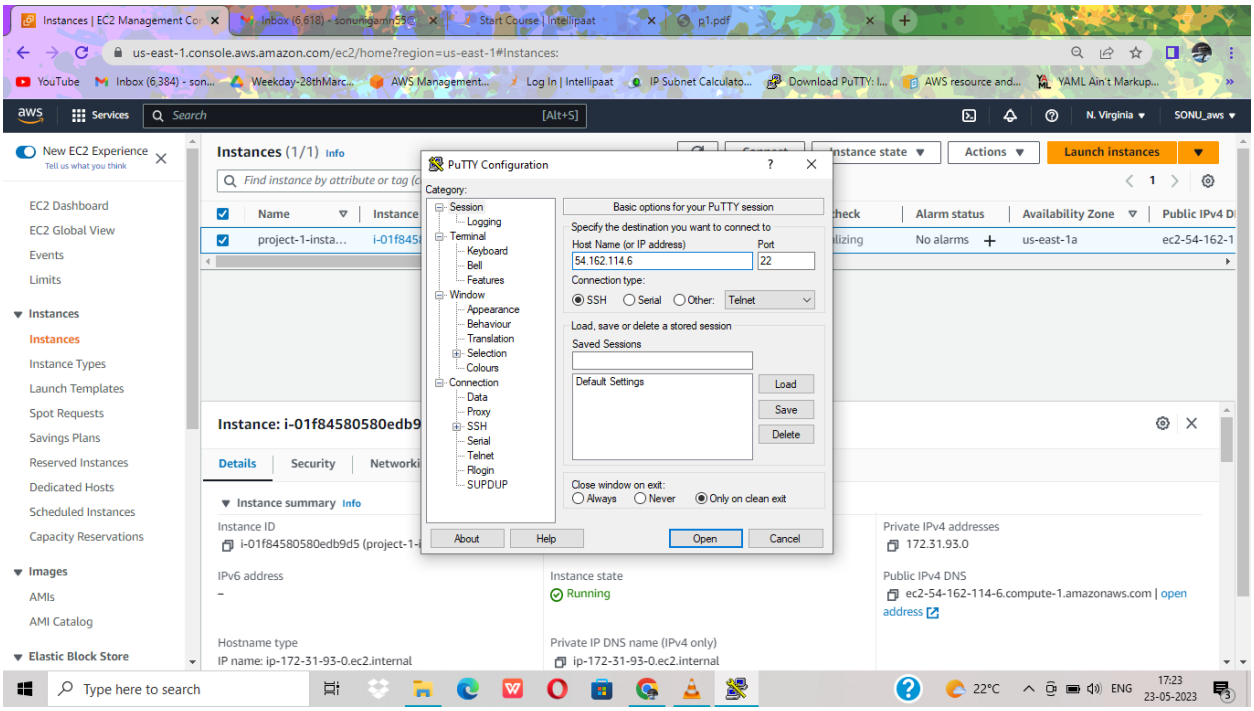
5 we give ssh and launch instance



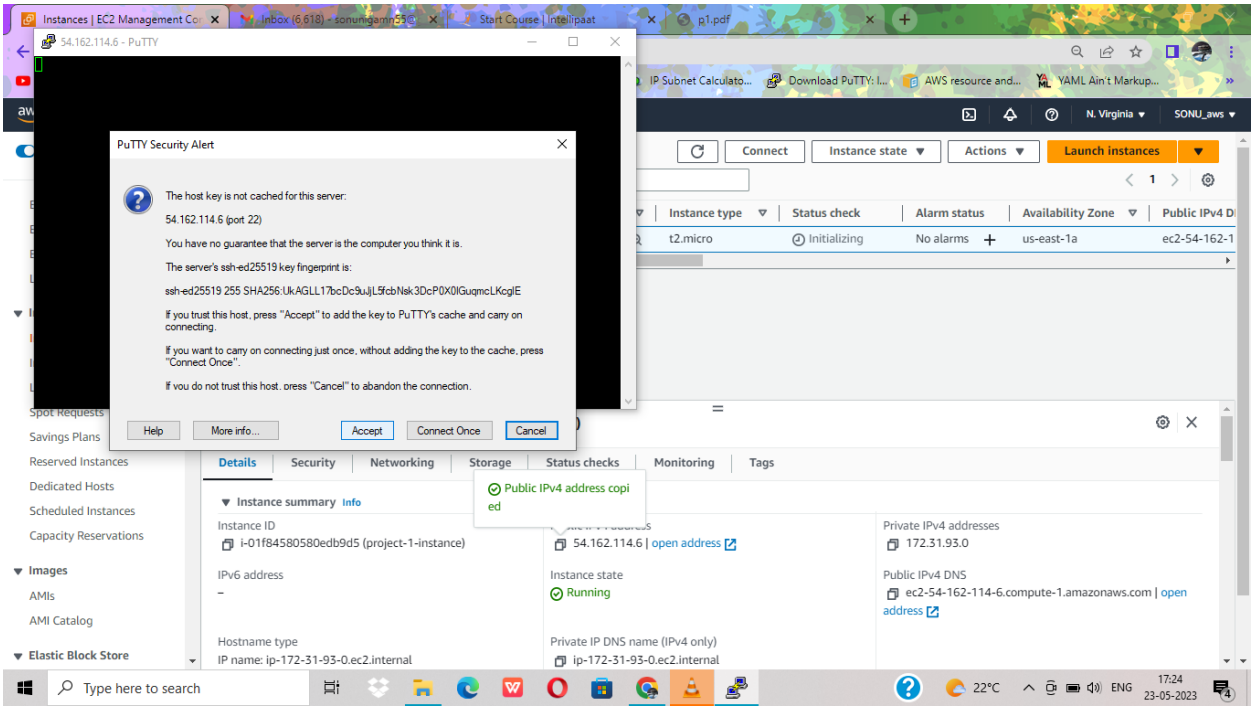
6 our instance is launched



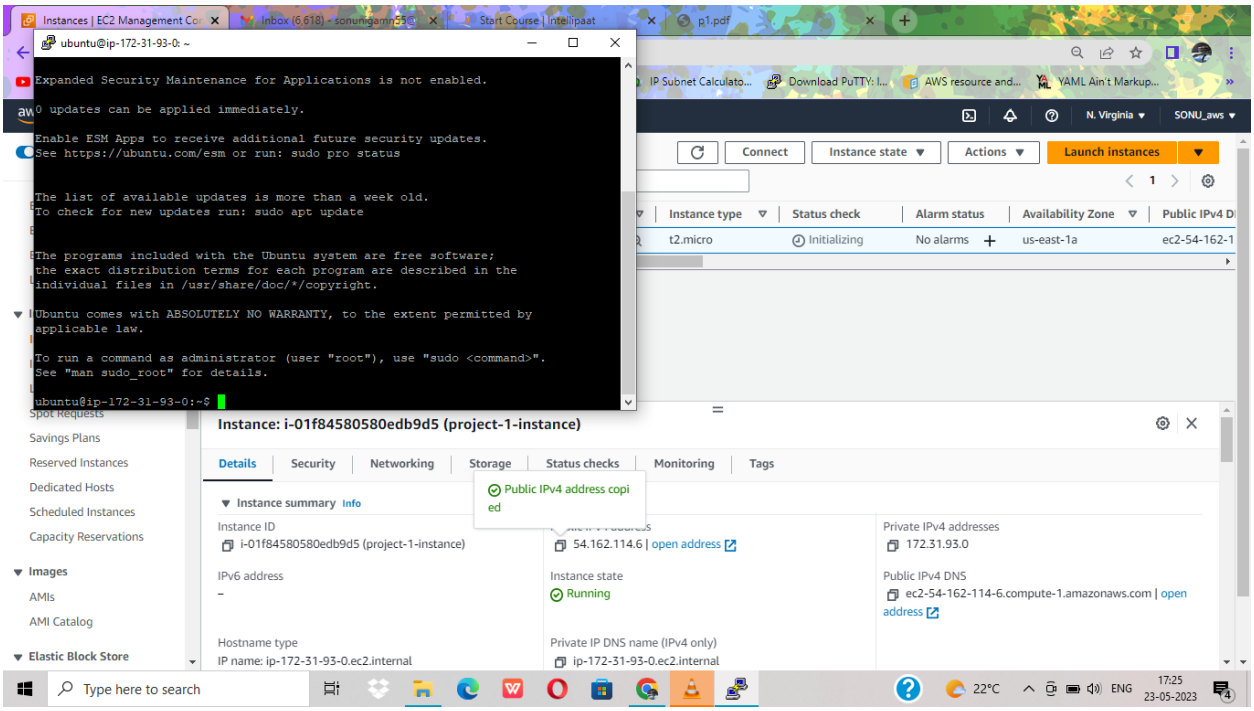
7 we now connect via putty



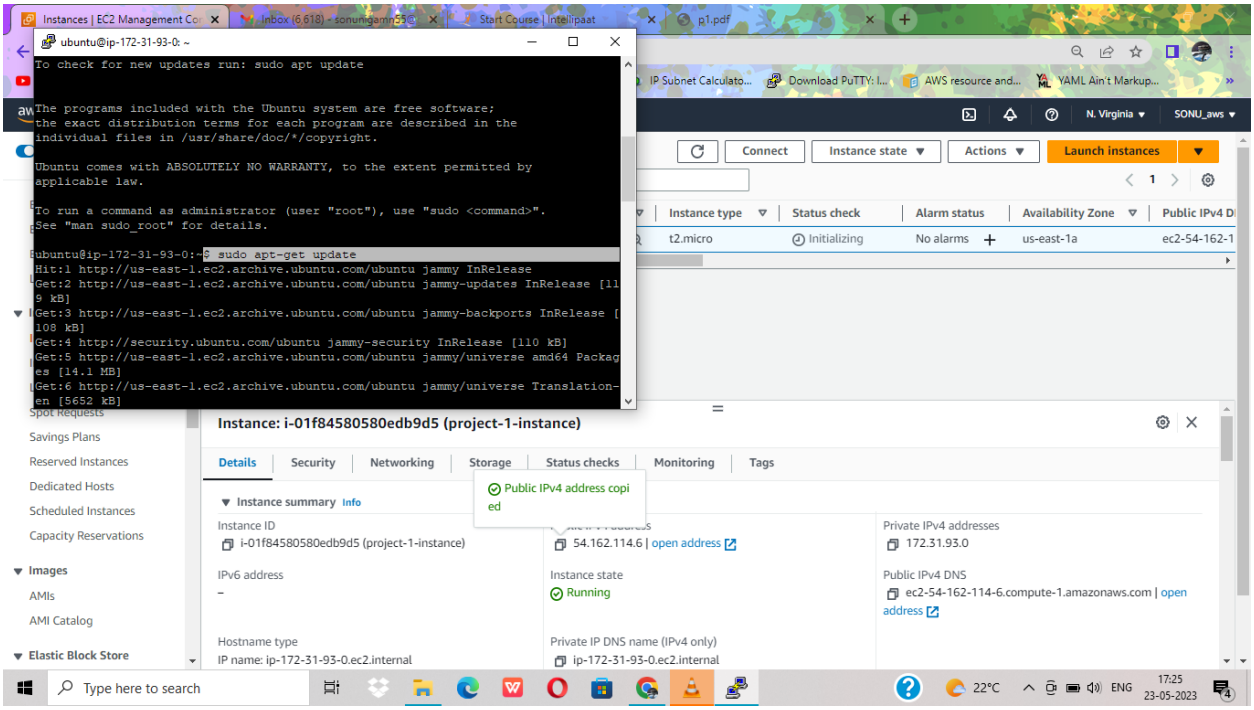
8 accept



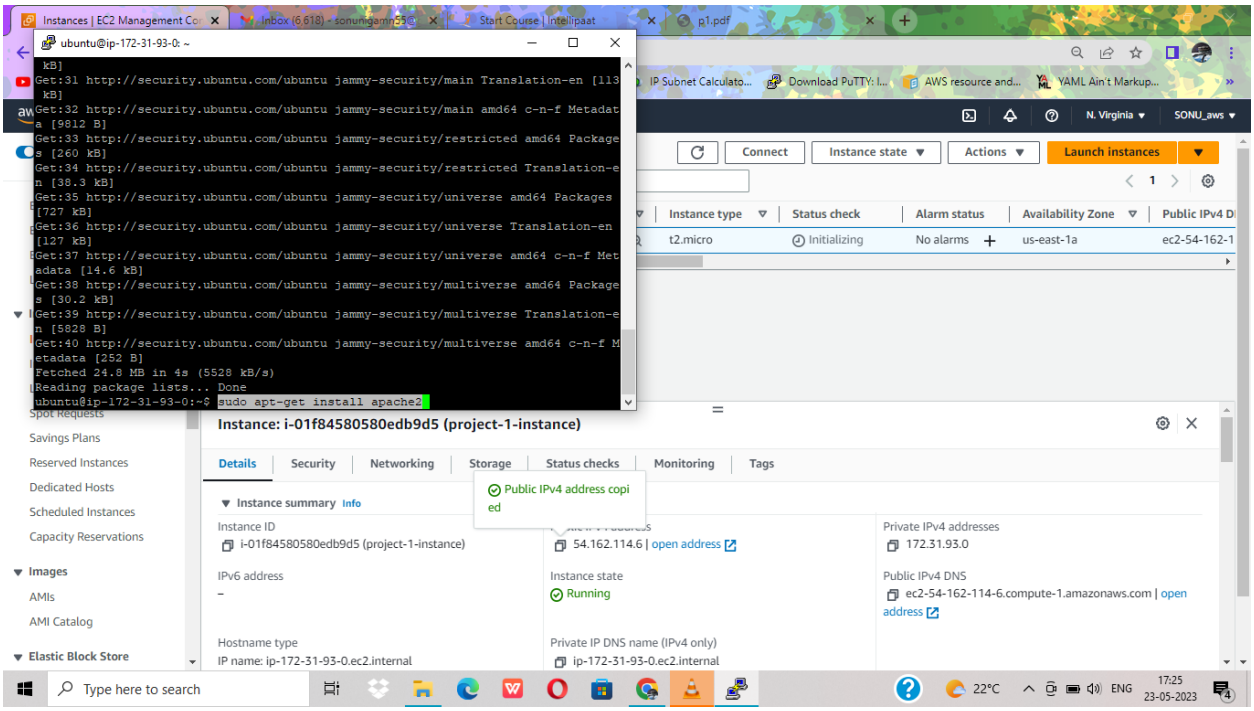
9 we select our service and create



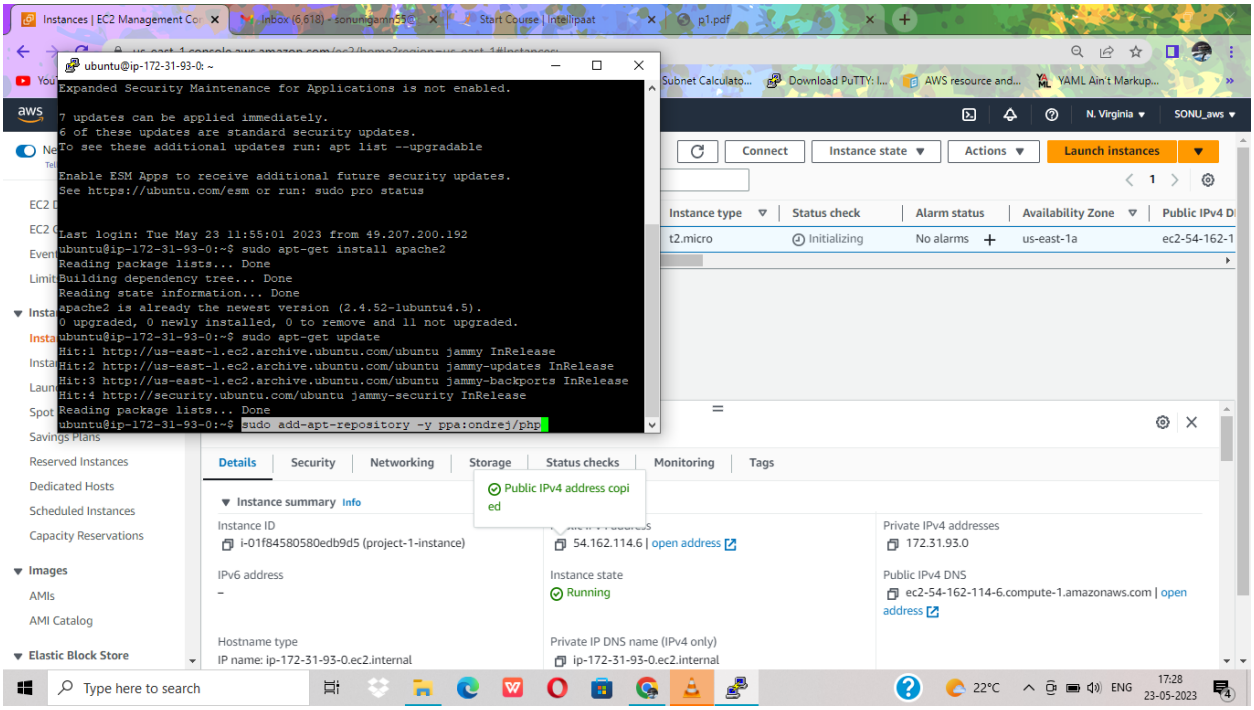
11 we now update the system



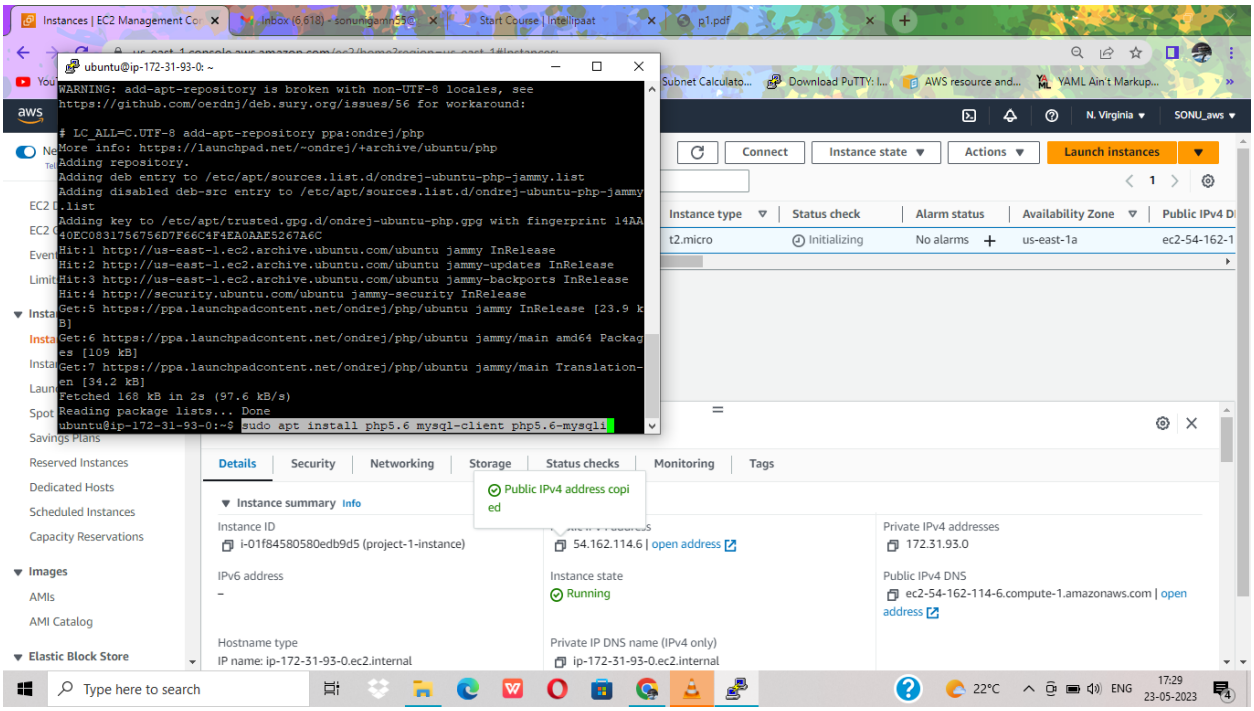
12 we now install apache 2



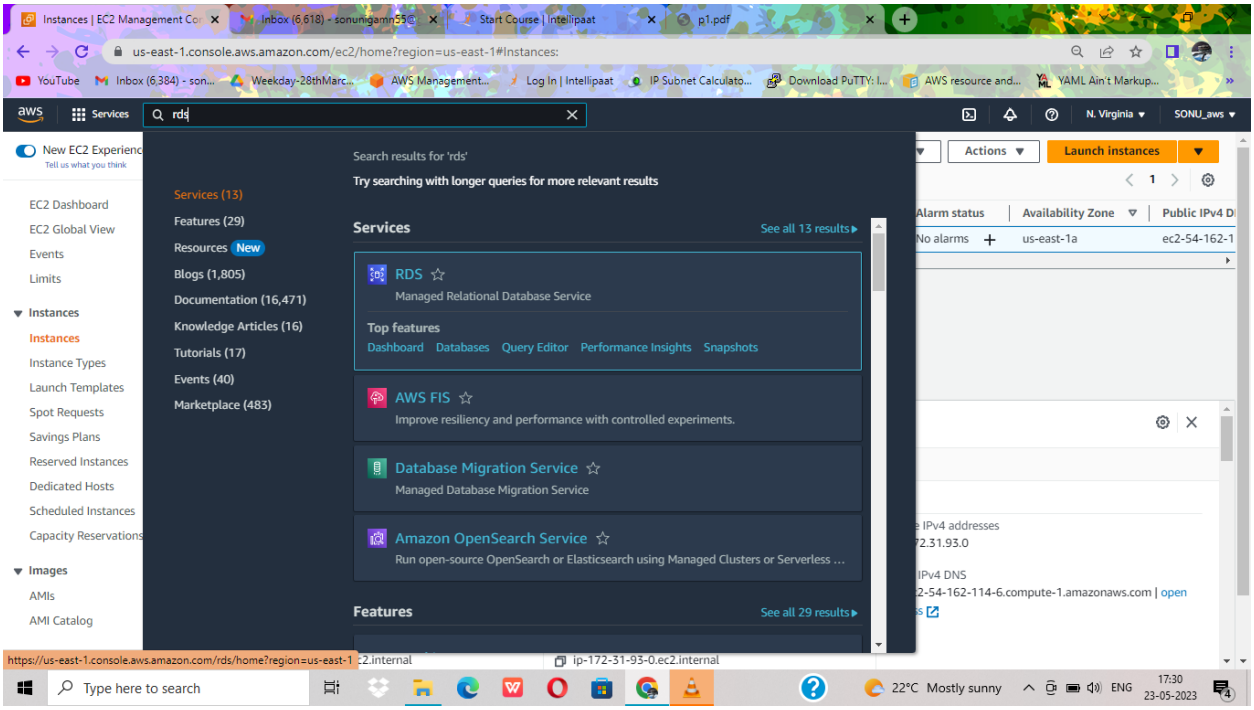
13 we run following commands as shown



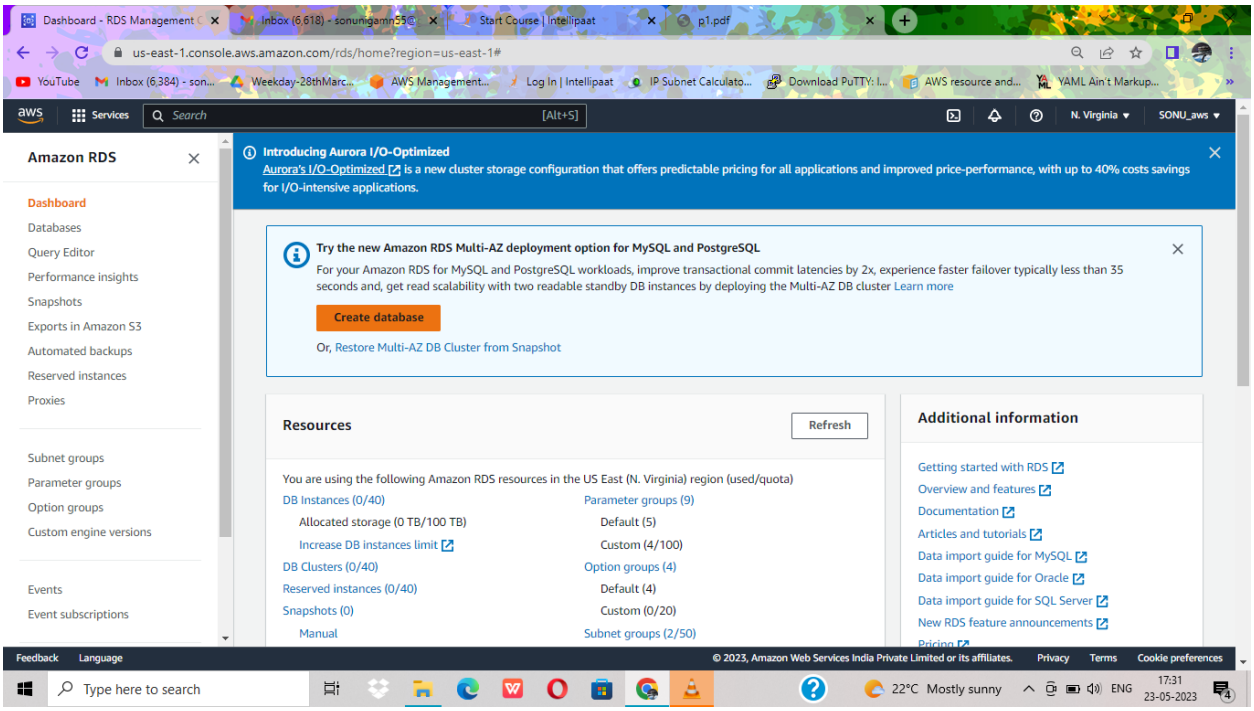
14



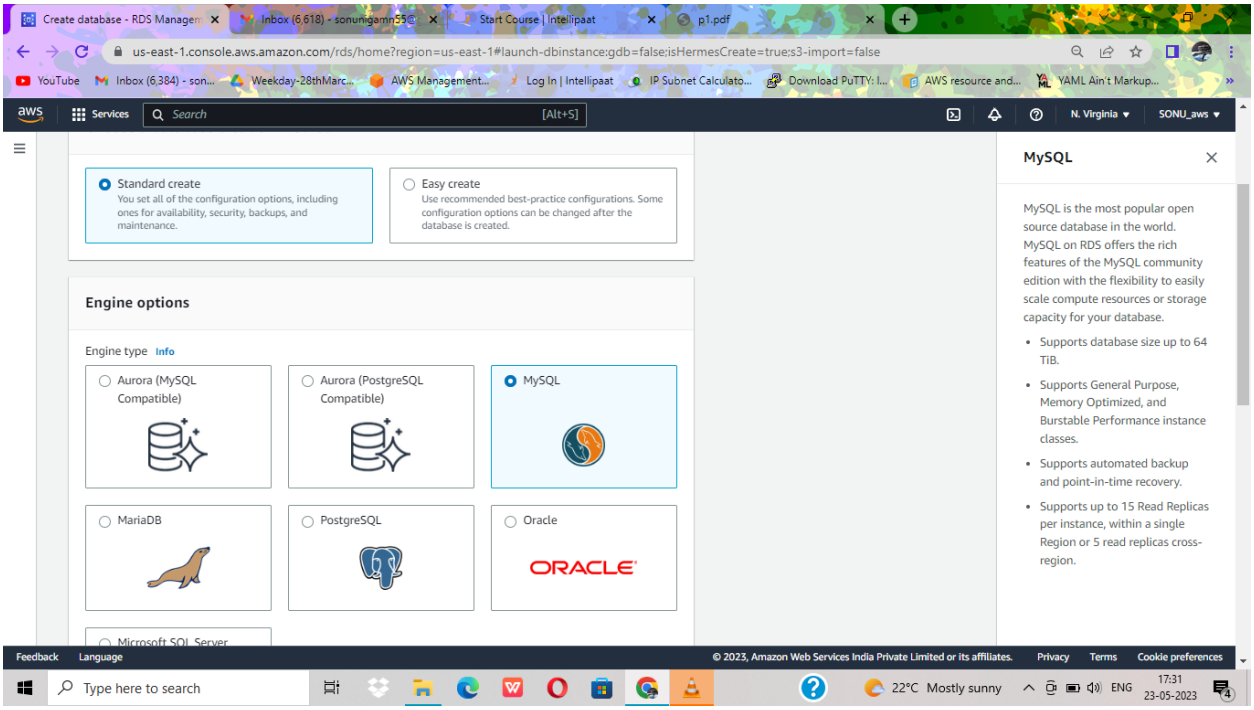
15 now we go to RDS database



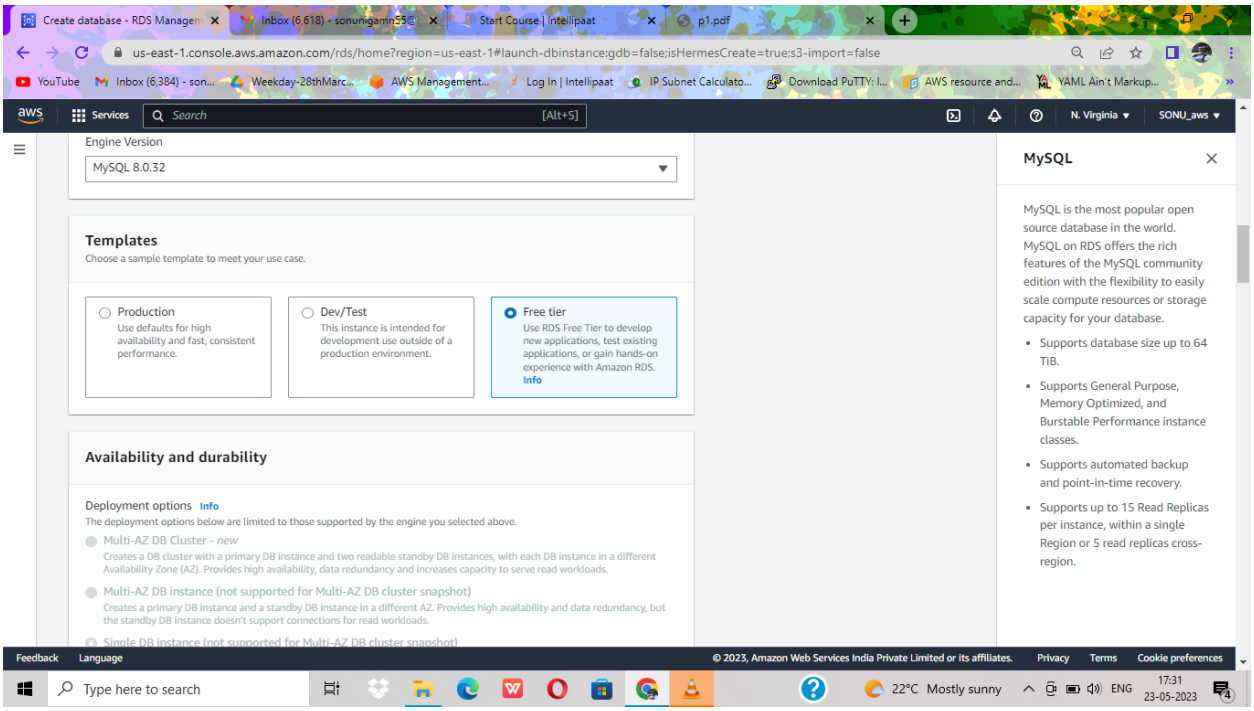
16 we now create database



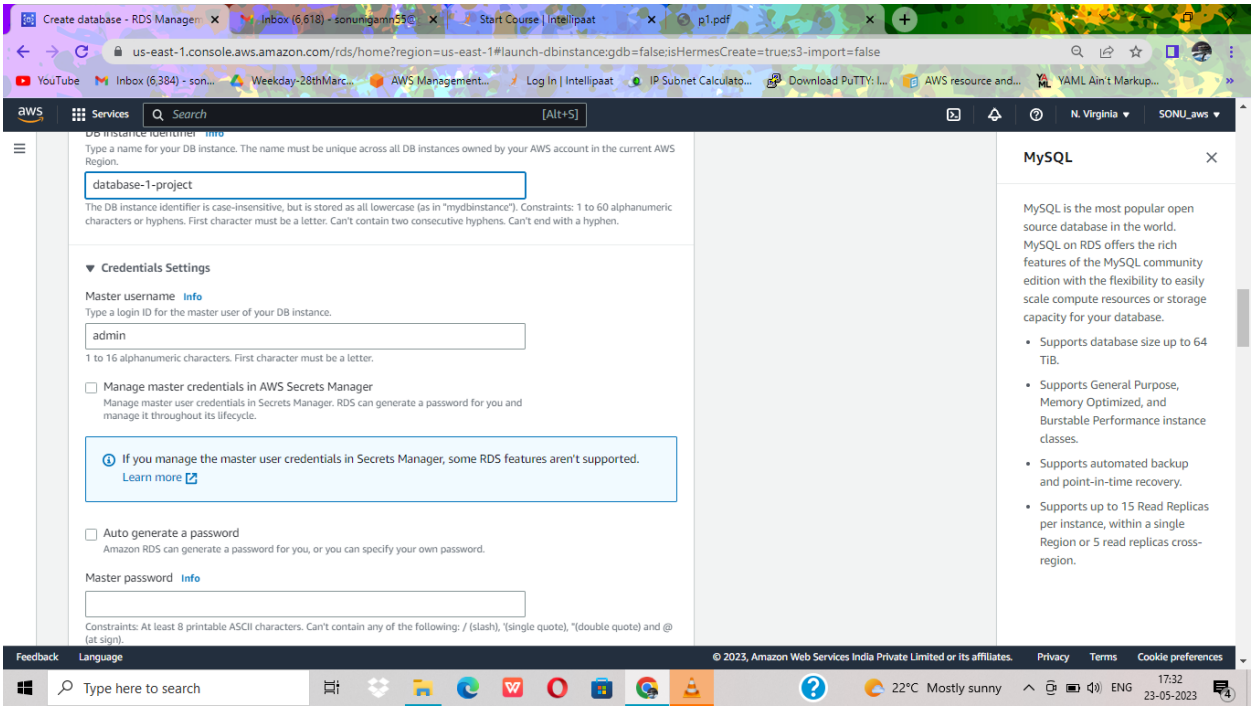
17 selecting my sql



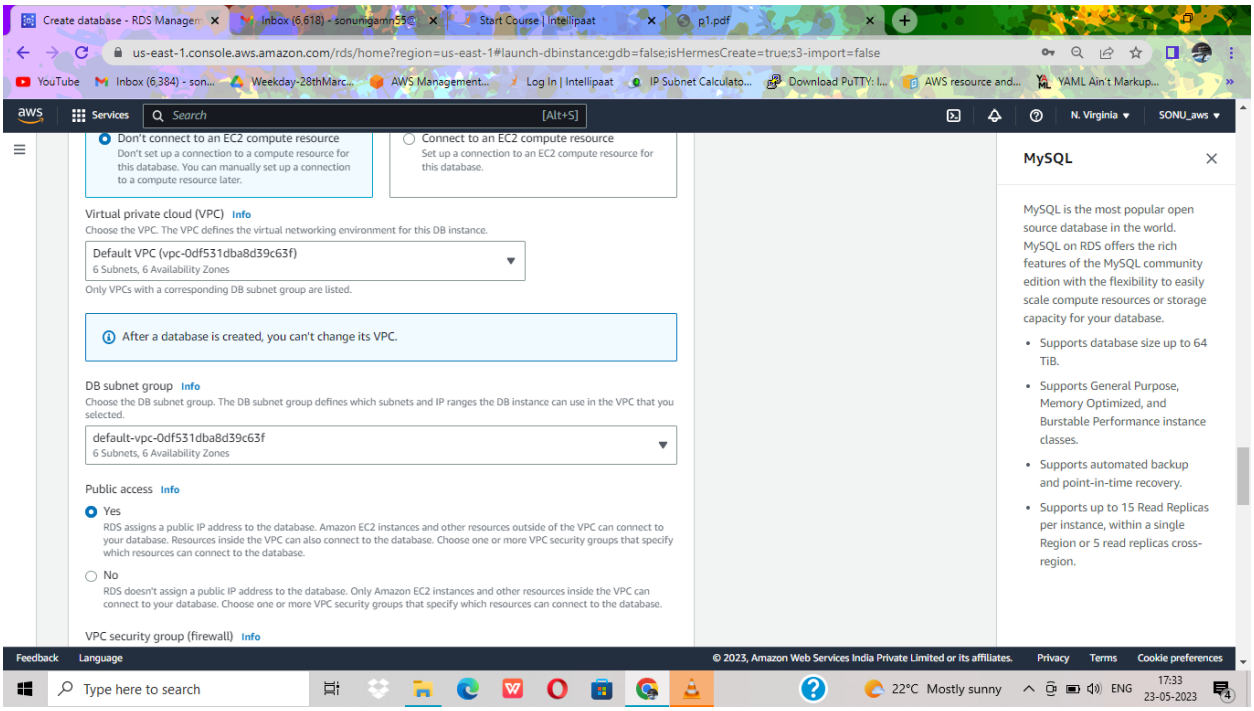
18 we go with free tier



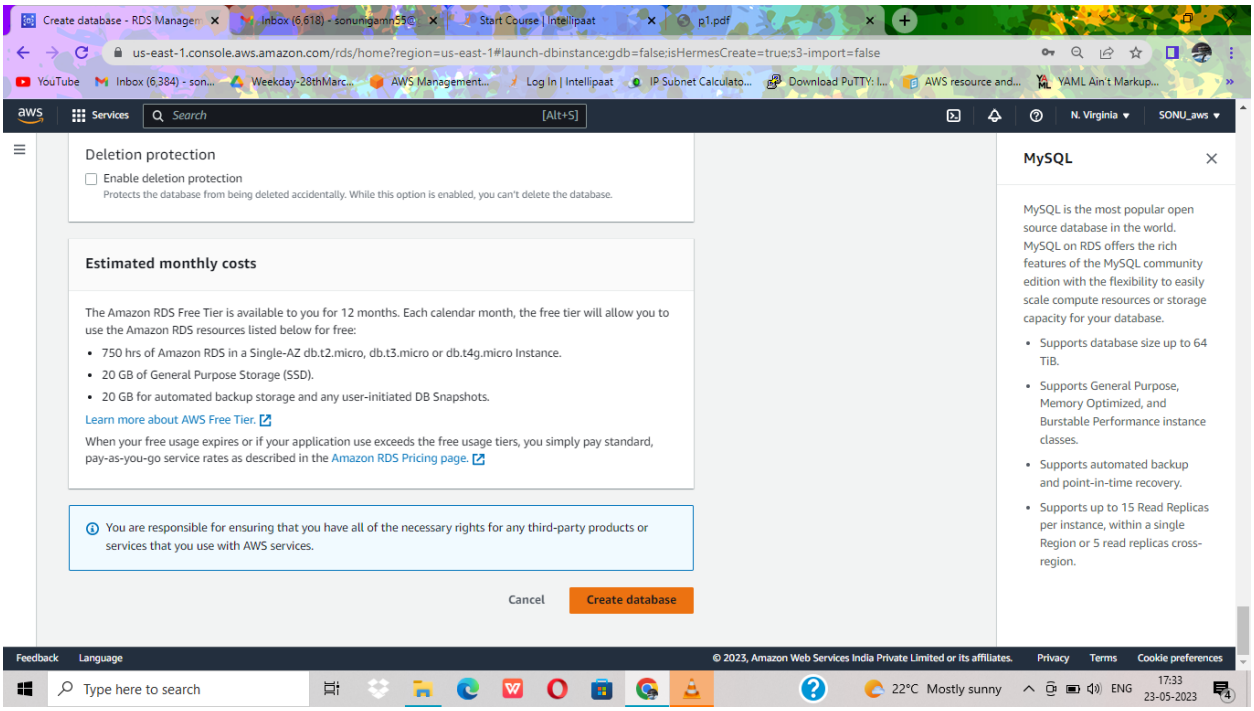
19 we name our DB and we set password



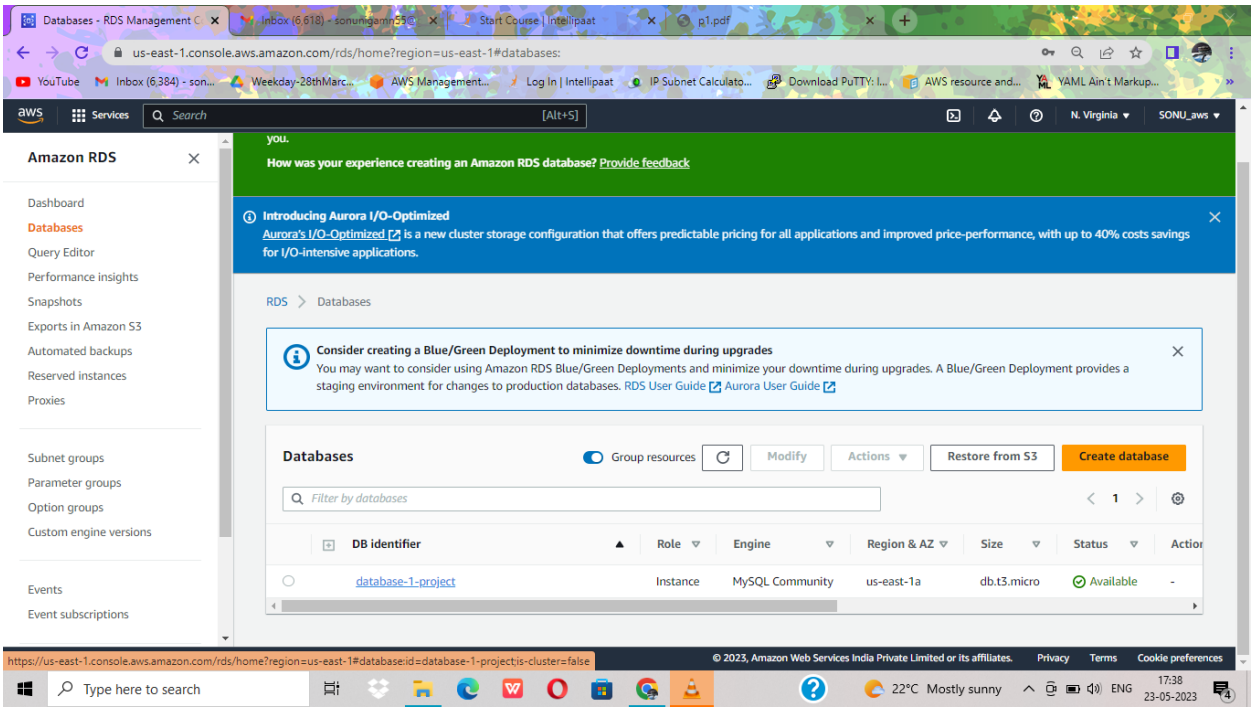
20 we give public access



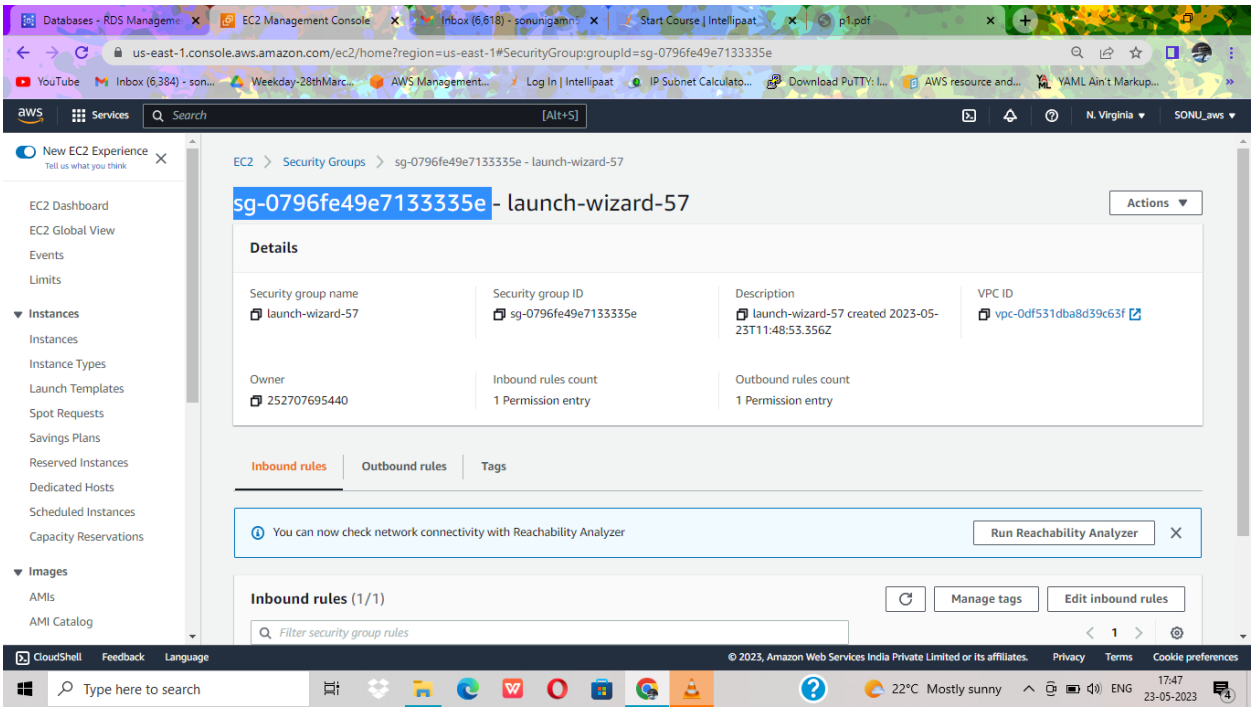
21 create



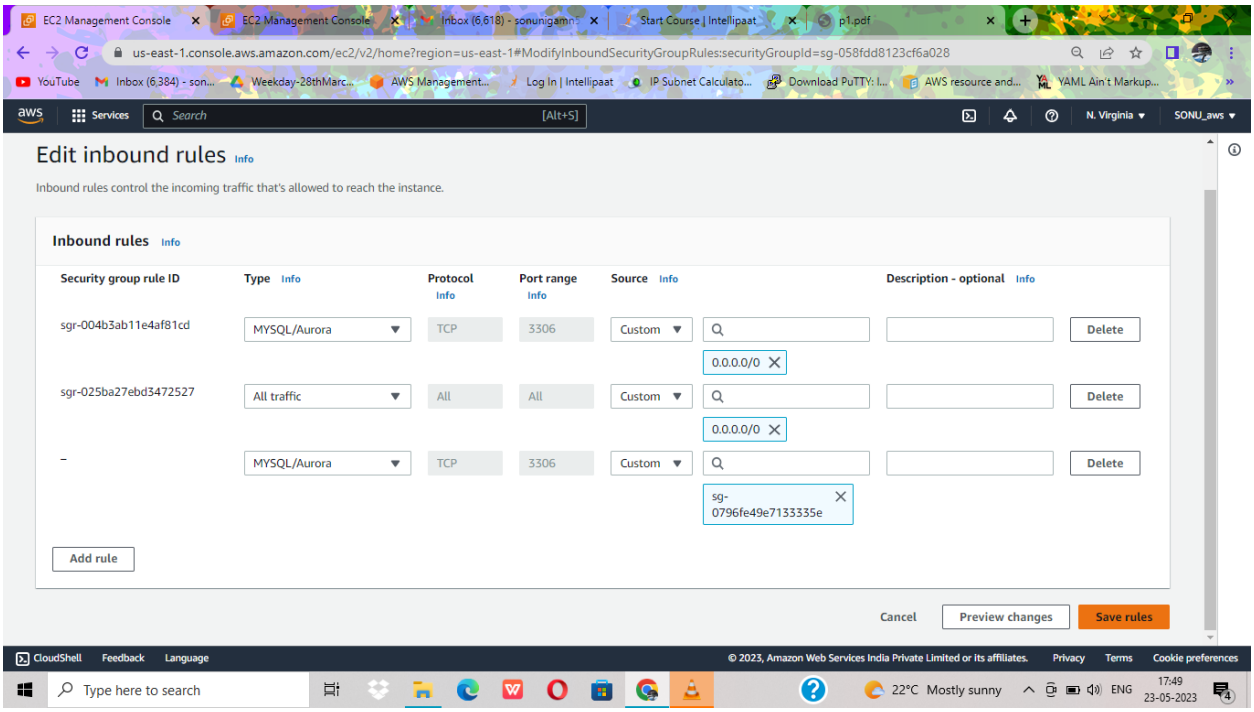
22 Now our DB is created



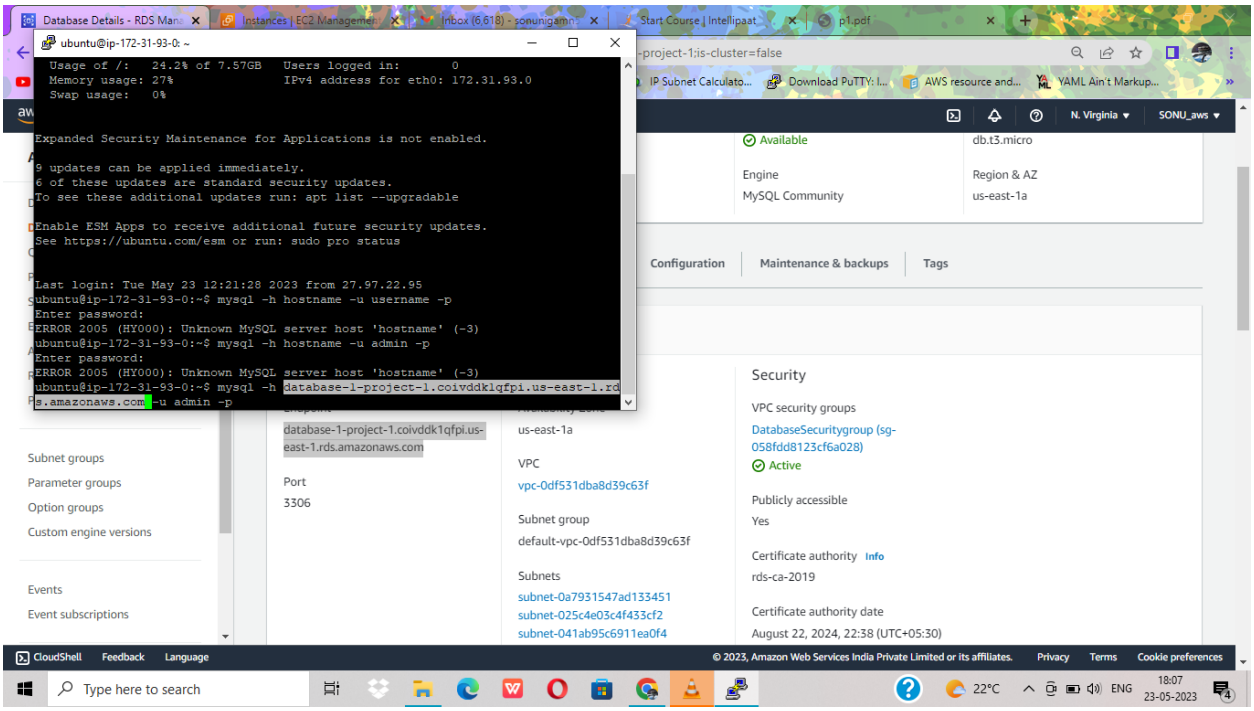
23 we copy the security group id and select the same in DB security



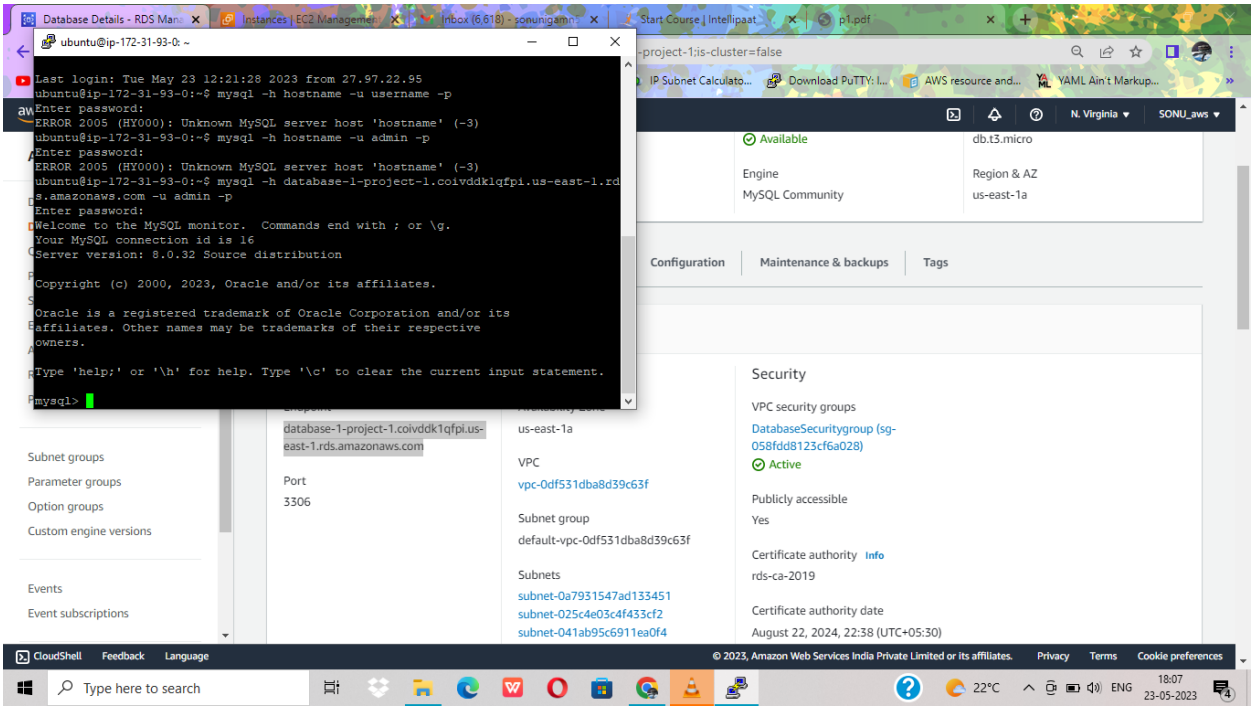
24



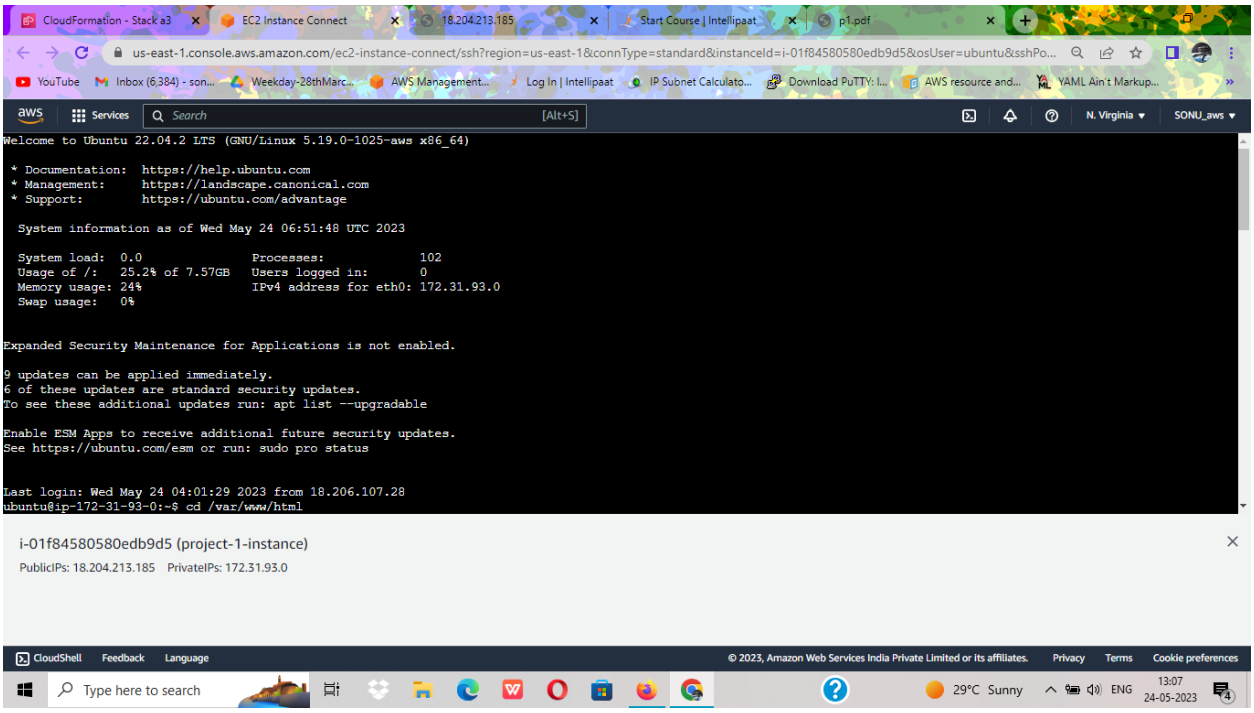
25 we try to connect to our DB using putty using end points



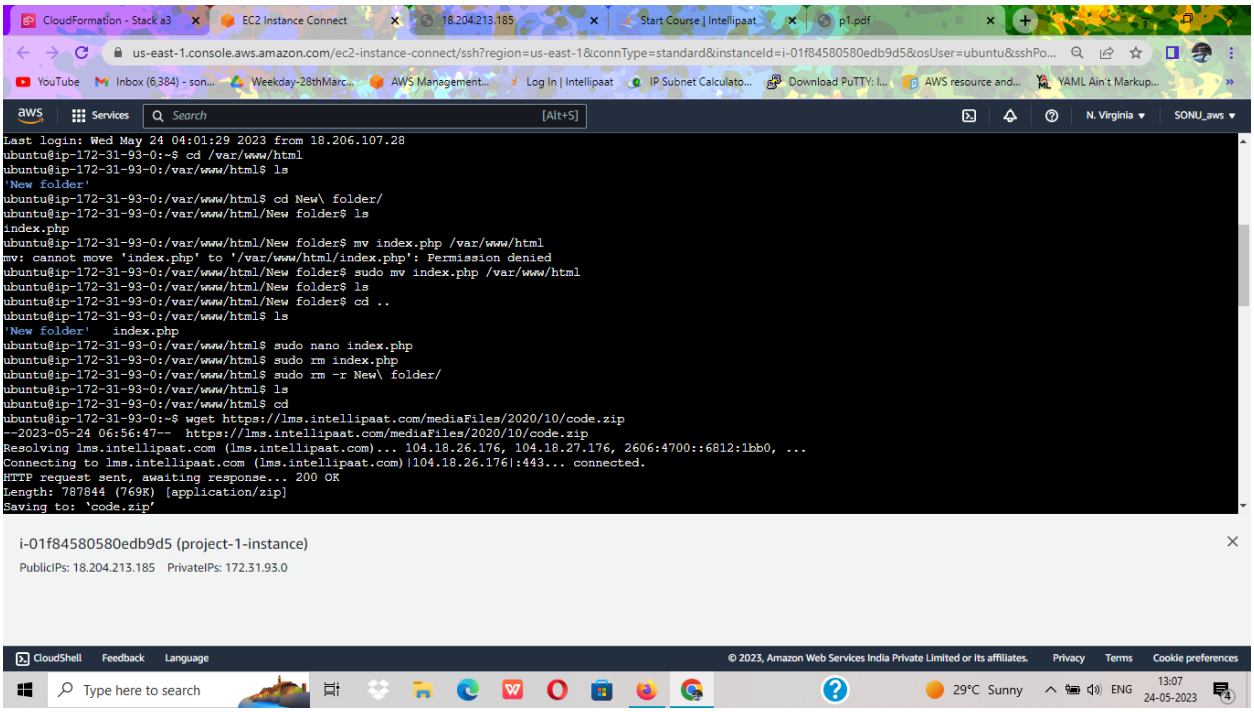
26 we are connected



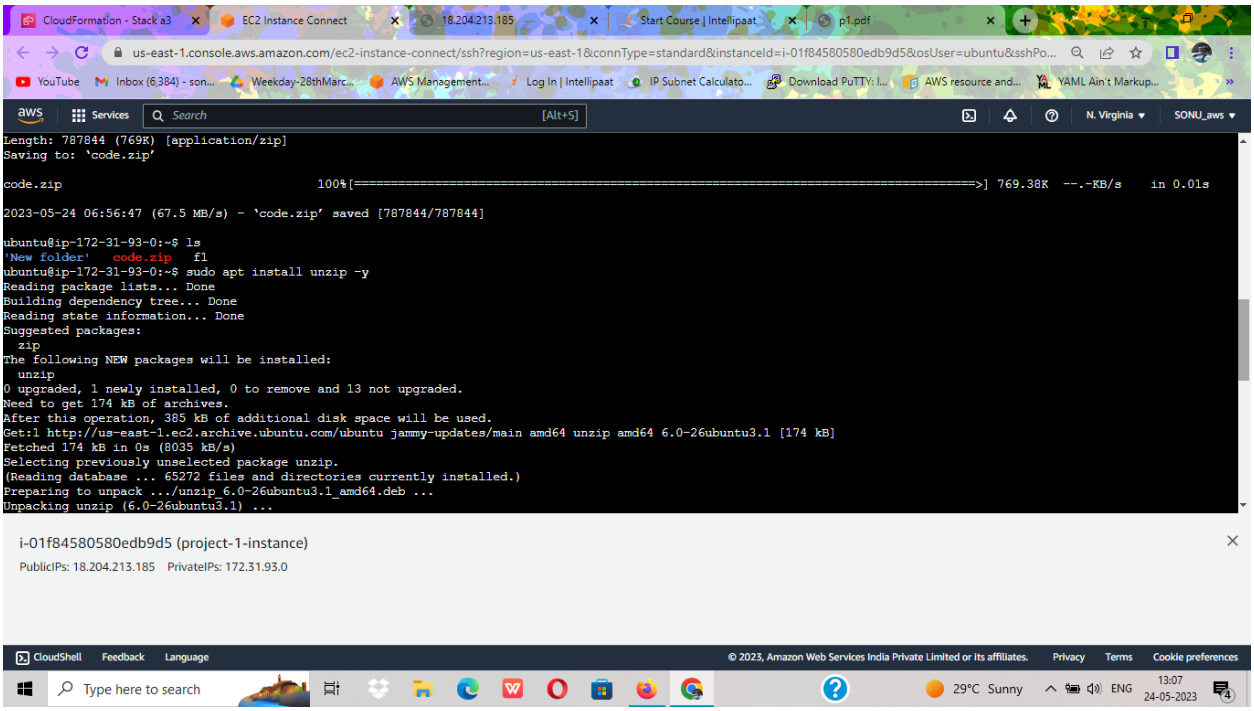
27 To make things easy we connect to our instance via browser and run the following commands



28



29


CloudFormation - Stack a3
EC2 Instance Connect
18.204.213.185
Start Course | Intellipaat
p1.pdf
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-01f84580580edb9d5&osUser=ubuntu&sshPo...
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AWS resource and...
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Length: 787844 (769K) [application/zip]
Saving to: 'code.zip'
code.zip 100%[=>] 769.38K --.-KB/s in 0.01s
2023-05-24 06:56:47 (67.5 MB/s) - 'code.zip' saved [787844/787844]
ubuntu@ip-172-31-93-0:~$ ls
'New folder' code.zip f1
ubuntu@ip-172-31-93-0:~$ sudo apt install unzip -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
zip
The following NEW packages will be installed:
unzip
0 upgraded, 1 newly installed, 0 to remove and 13 not upgraded.
Need to get 174 kB of archives.
After this operation, 385 kB of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 unzip amd64 6.0-26ubuntu3.1 [174 kB]
Fetched 174 kB in 0s (8035 kB/s)
Selecting previously unselected package unzip.
(Reading database ... 65272 files and directories currently installed.)
Preparing to unpack .../unzip_6.0-26ubuntu3.1_amd64.deb ...
Unpacking unzip (6.0-26ubuntu3.1) ...
i-01f84580580edb9d5 (project-1-instance)
PublicIPs: 18.204.213.185 PrivateIPs: 172.31.93.0
CloudShell
Feedback
Language
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Privacy
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Cookie preferences
Type here to search
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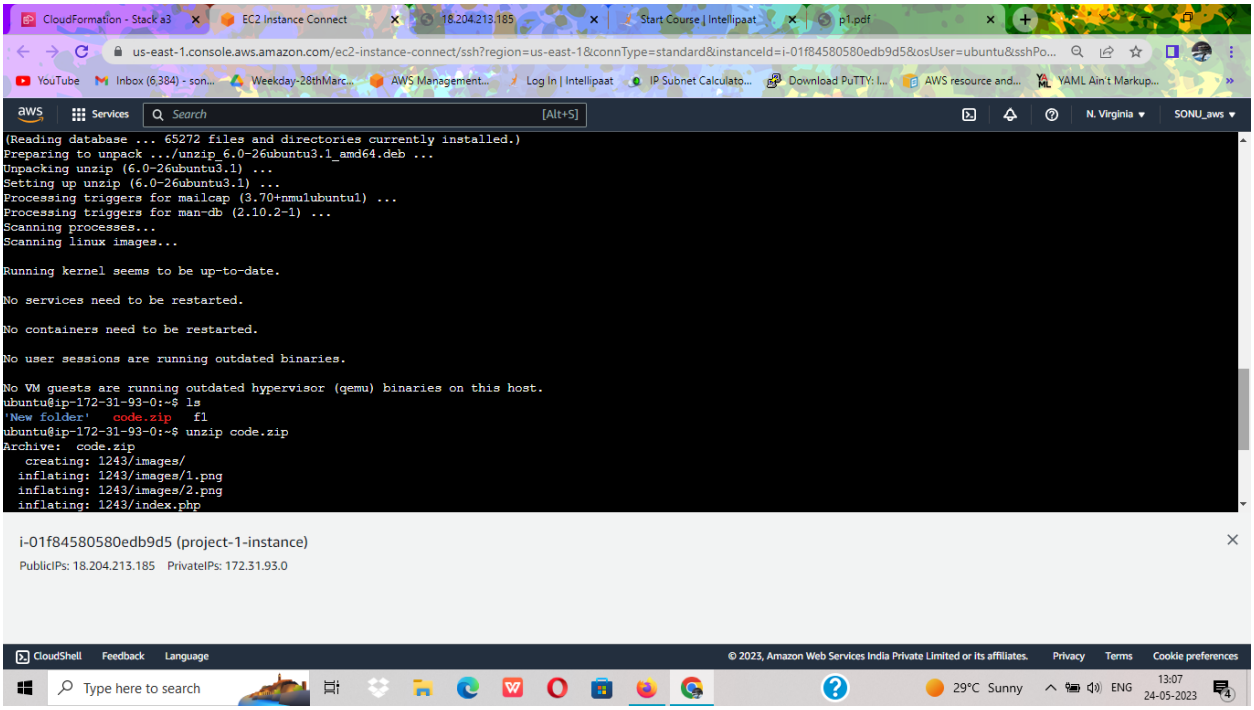
30


CloudFormation - Stack a3
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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-01f84580580edb9d5&osUser=ubuntu&sshPo...
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IP Subnet Calculato...
Download PuTTY: l...
AWS resource and...
YAML Ain't Markup...
aws
Services
Search
[Alt+S]
N. Virginia
SONU_aws
(Reading database ... 65272 files and directories currently installed.)
Preparing to unpack .../unzip_6.0-26ubuntu3.1_amd64.deb ...
Unpacking unzip (6.0-26ubuntu3.1) ...
Setting up unzip (6.0-26ubuntu3.1) ...
Processing triggers for mailcap (3.70+nmu1ubuntu1) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-93-0:~$ ls
'New folder' code.zip f1
ubuntu@ip-172-31-93-0:~$ unzip code.zip
Archive: code.zip
creating: 1243/images/
inflating: 1243/images/1.png
inflating: 1243/images/2.png
inflating: 1243/index.php
i-01f84580580edb9d5 (project-1-instance)
PublicIPs: 18.204.213.185 PrivateIPs: 172.31.93.0
CloudShell
Feedback
Language
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Terms
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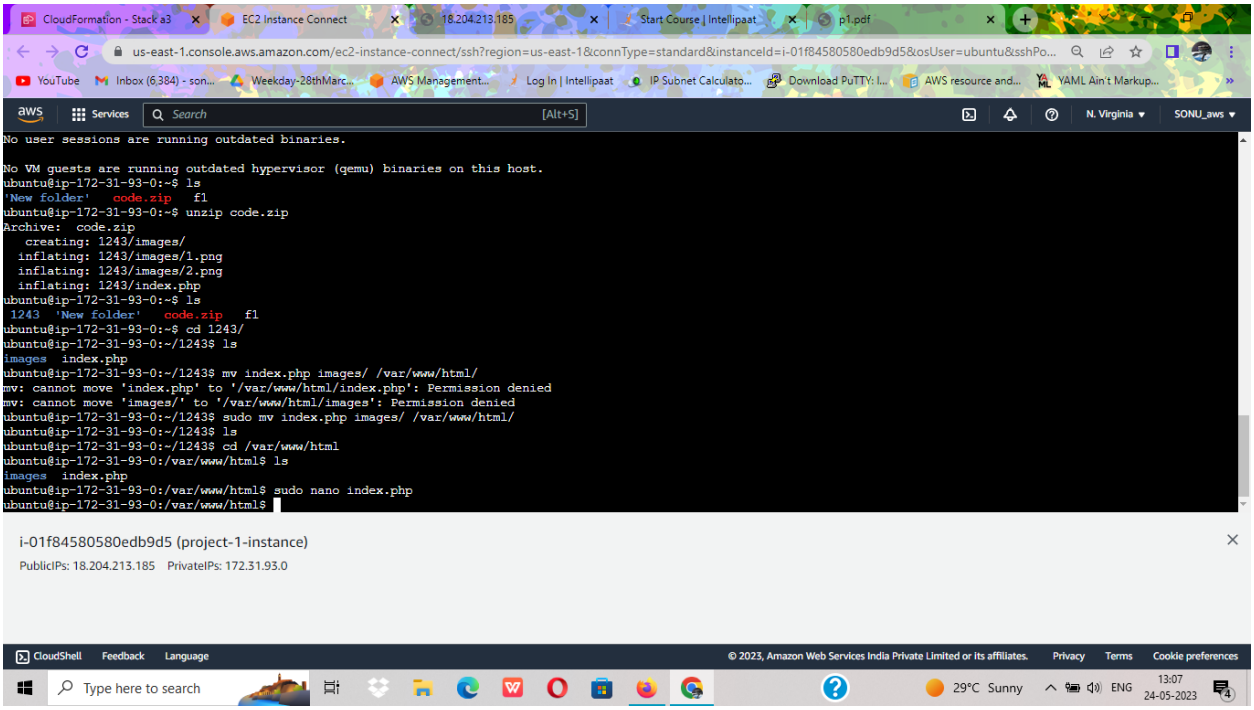
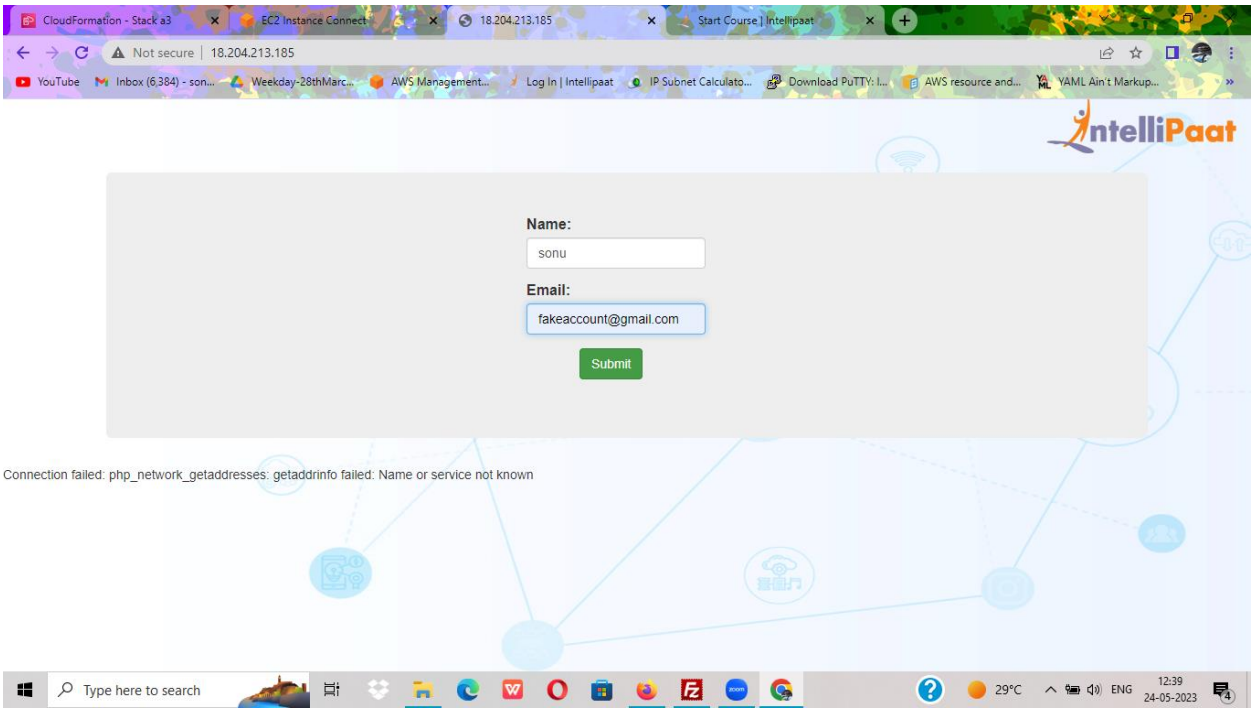
Type here to search
29°C Sunny
ENG
13:07
24-05-2023

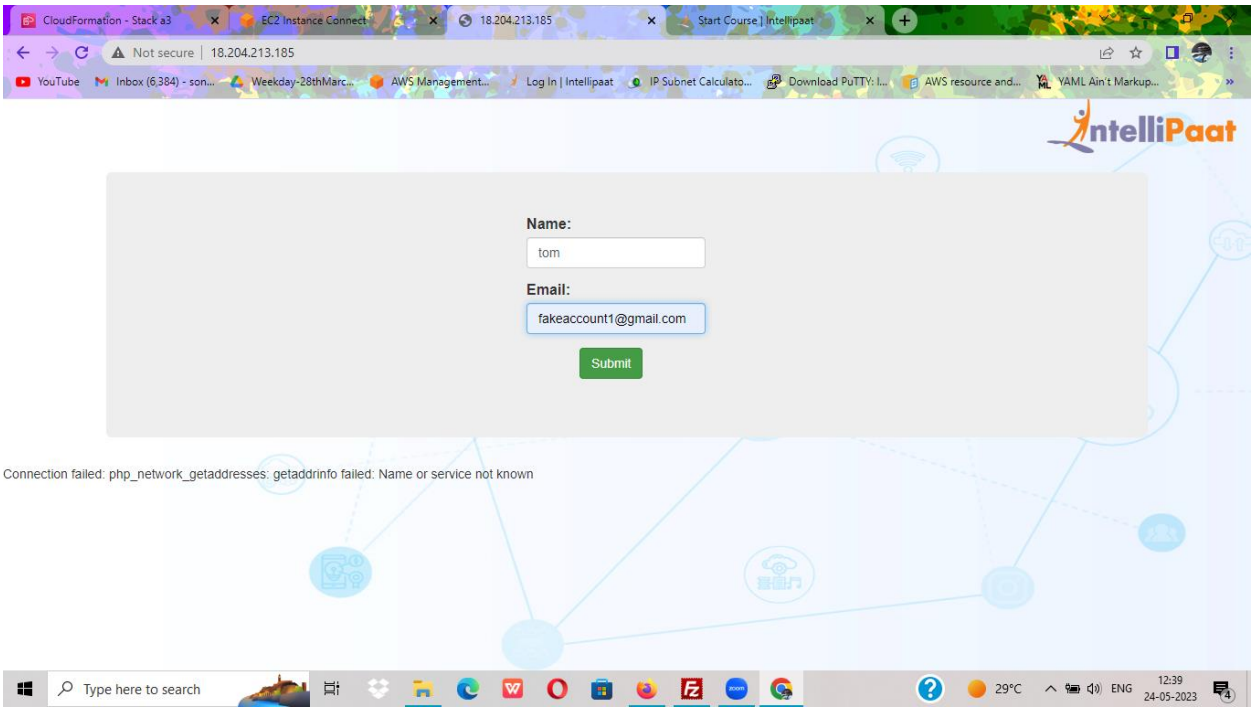
31



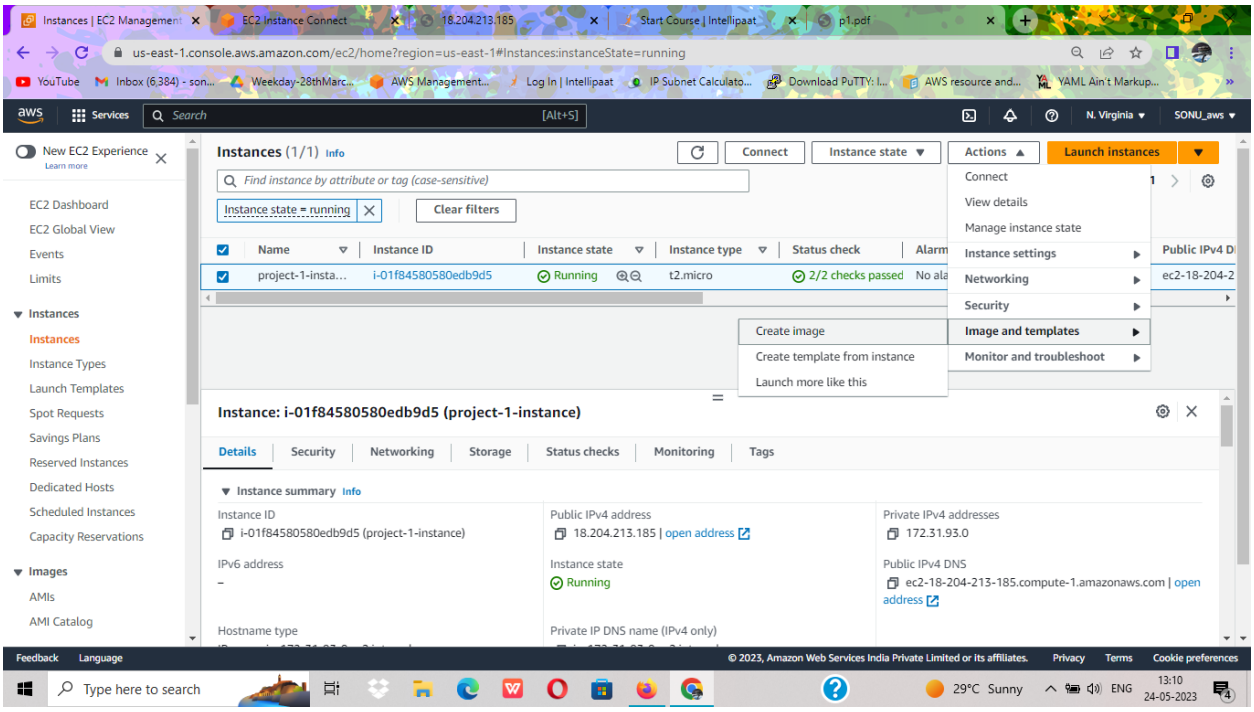
32 we now browse our IP address



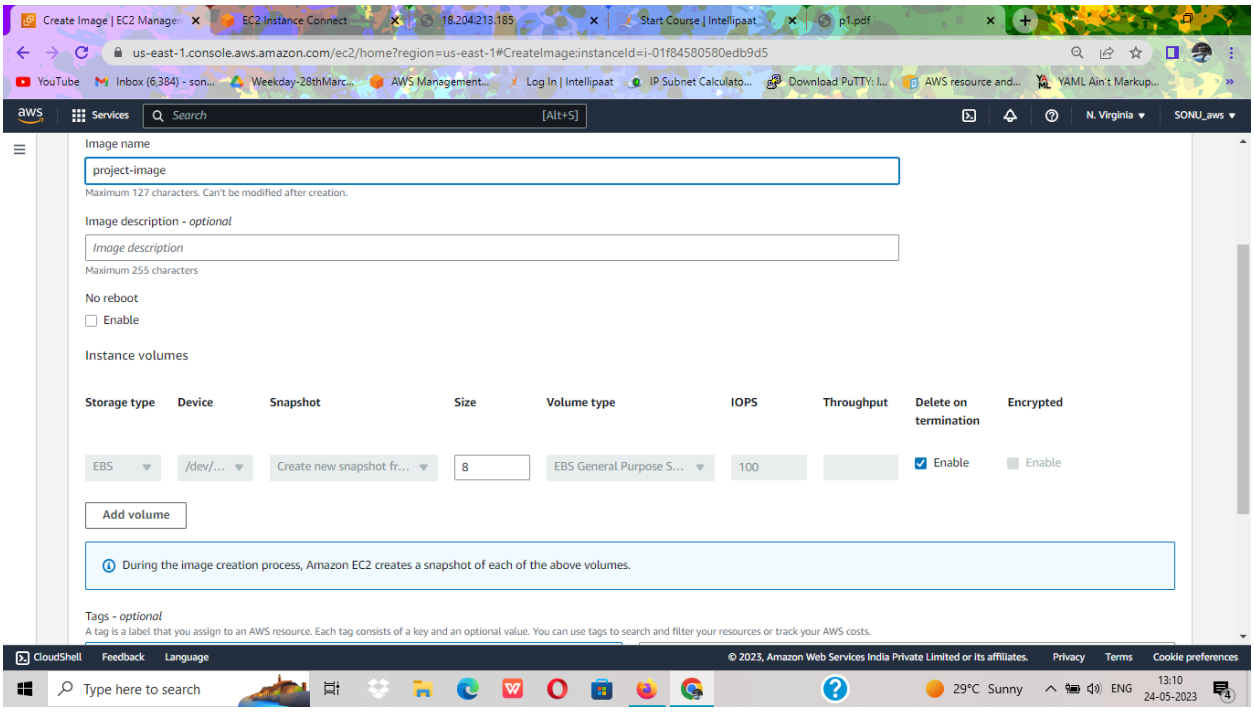
33 we add some data



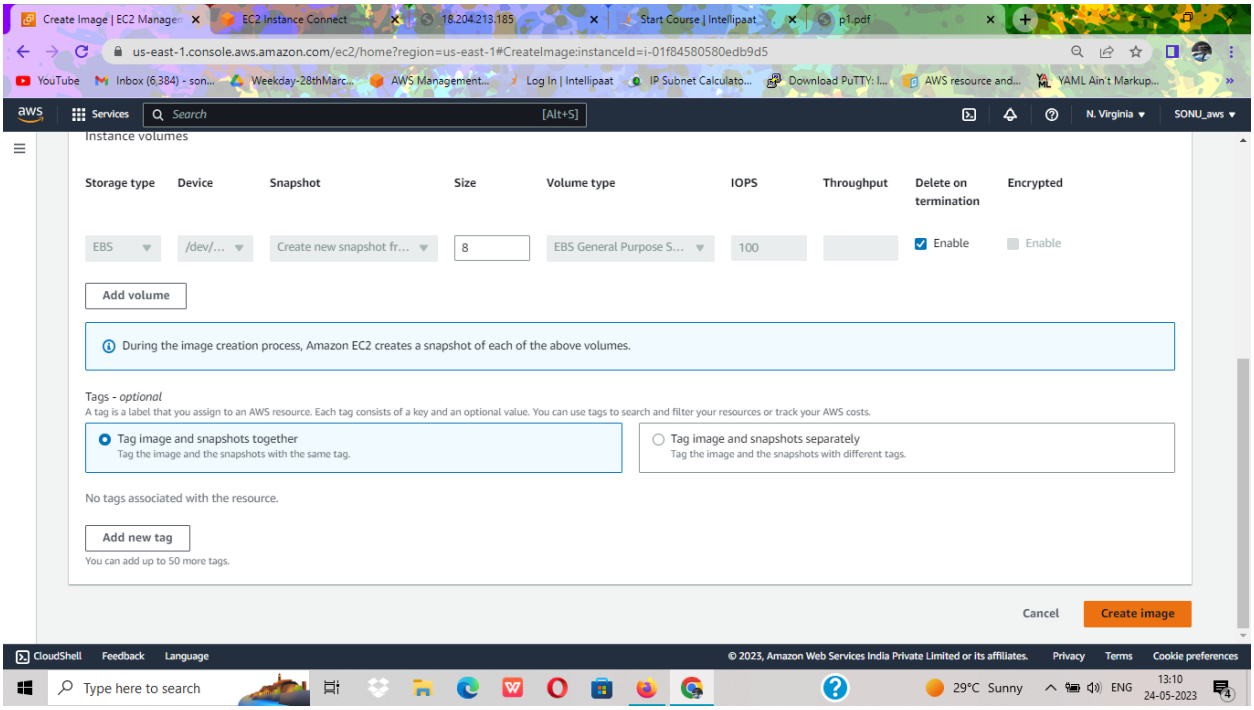
34 now we go for autoscaling for that we create image of our instance



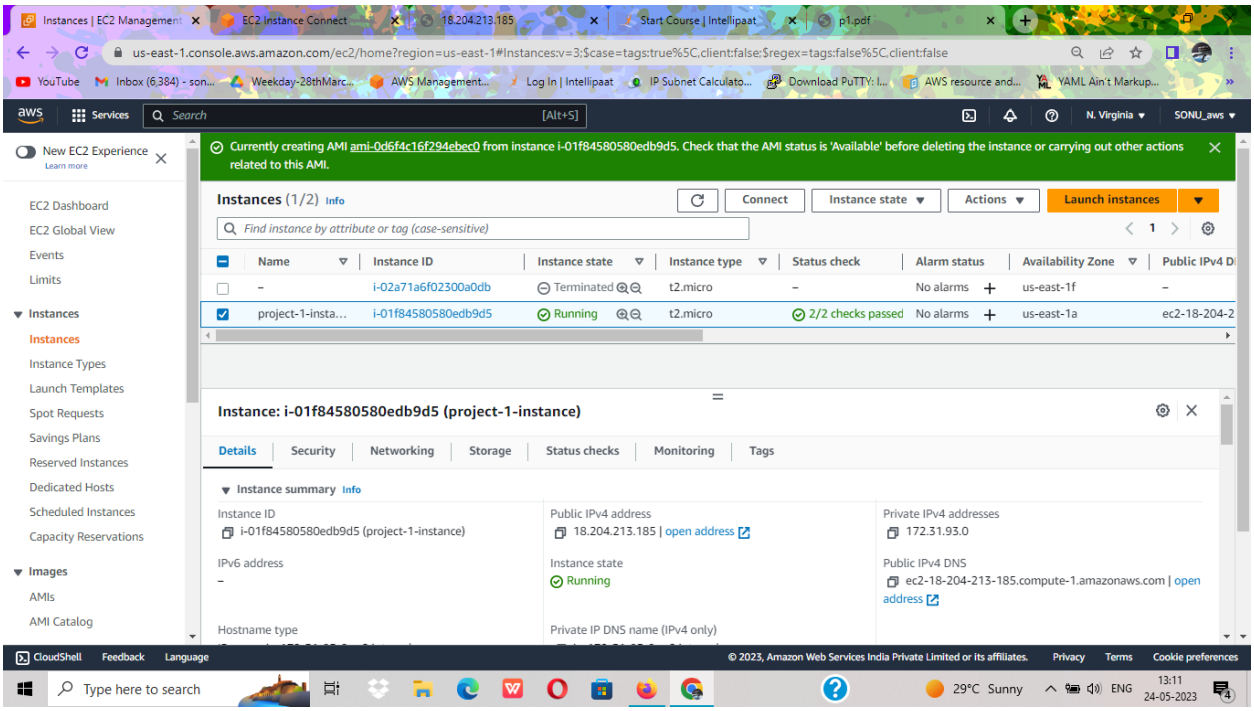
35 we give name to our image



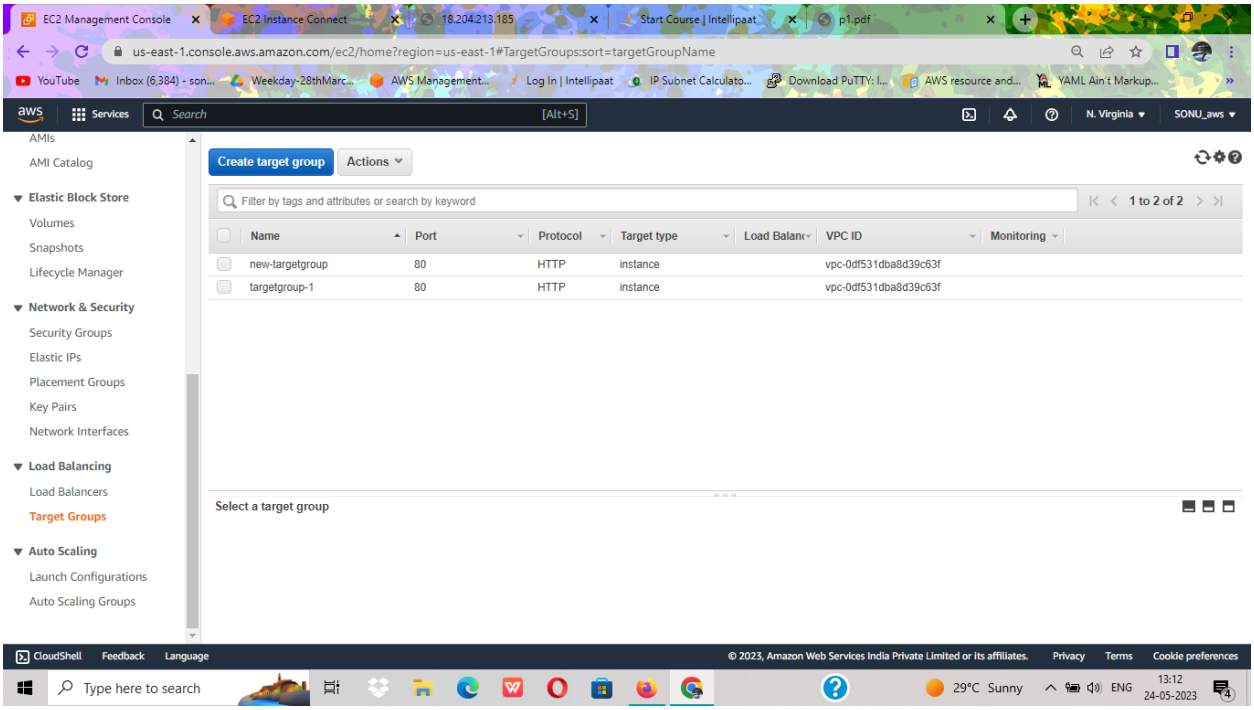
36 create image



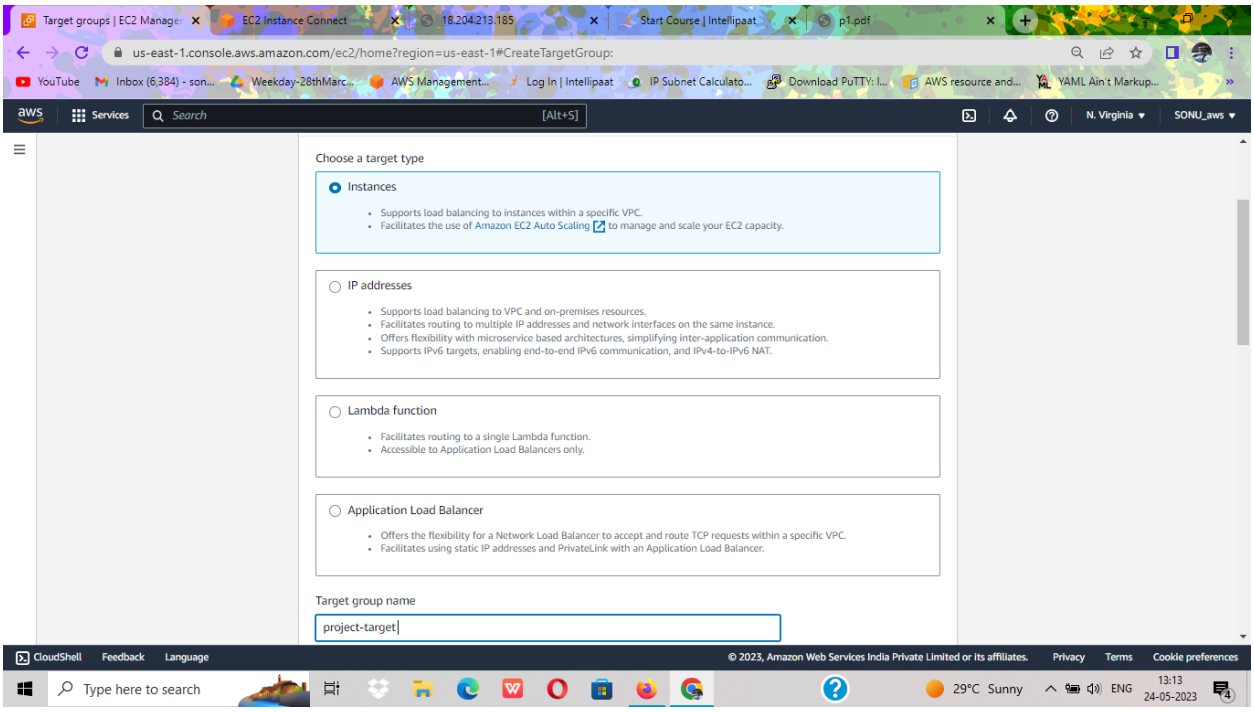
37 our image is created



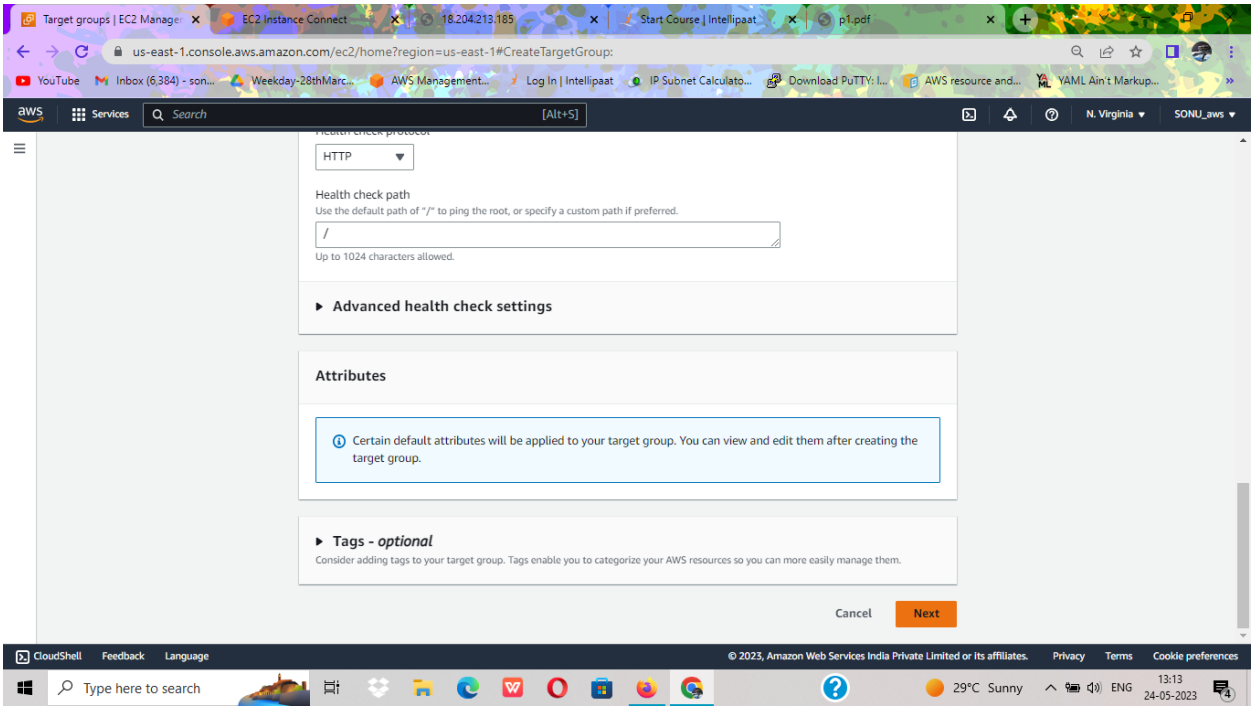
38 we now create target group



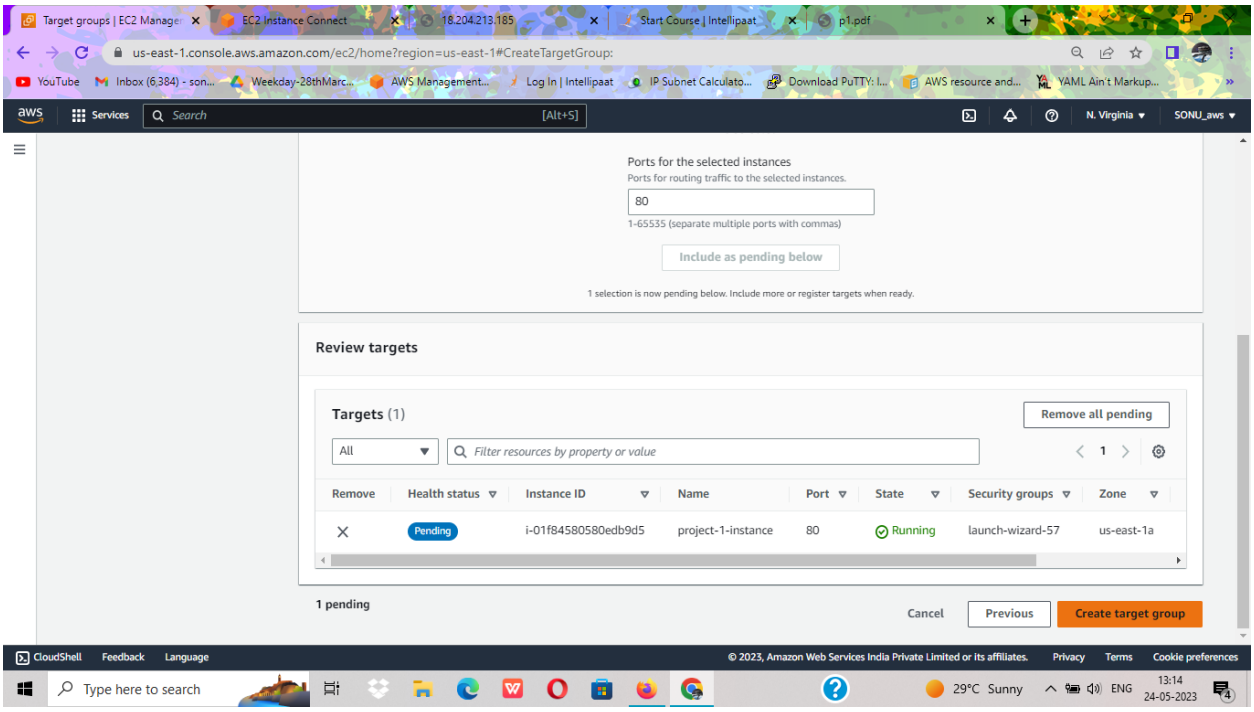
39 we select instance type target group



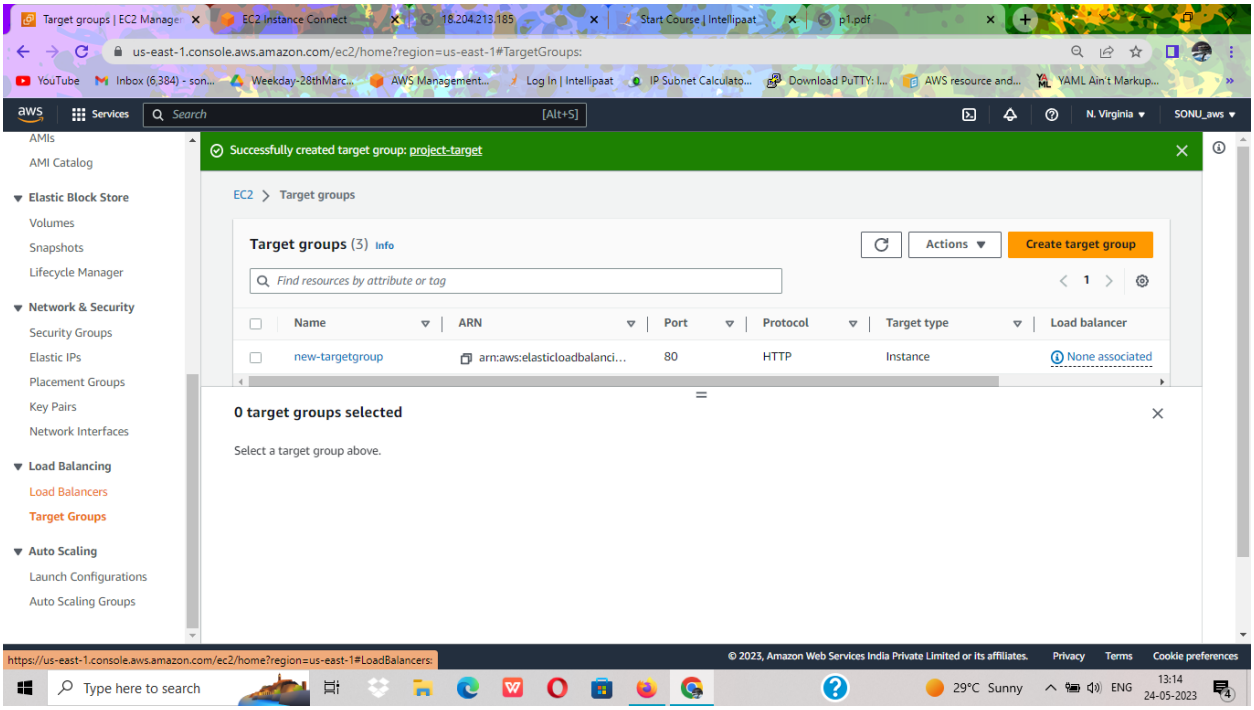
40 next



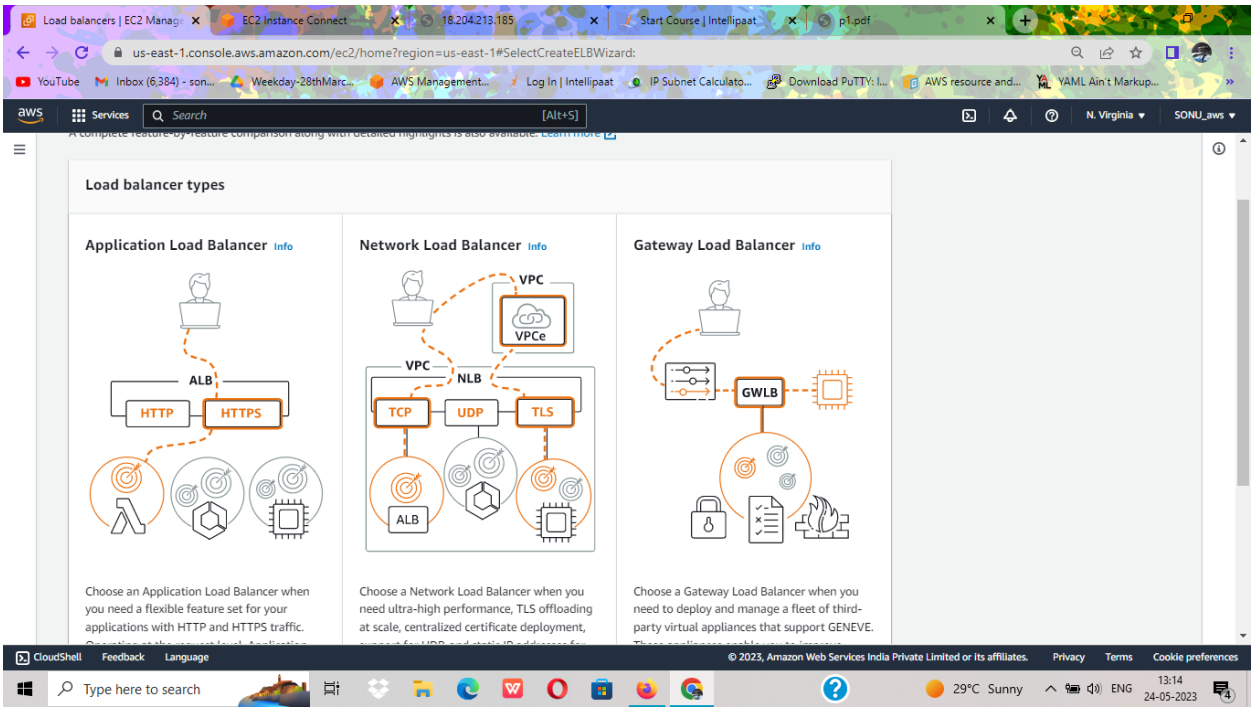
41 we select our instance and create



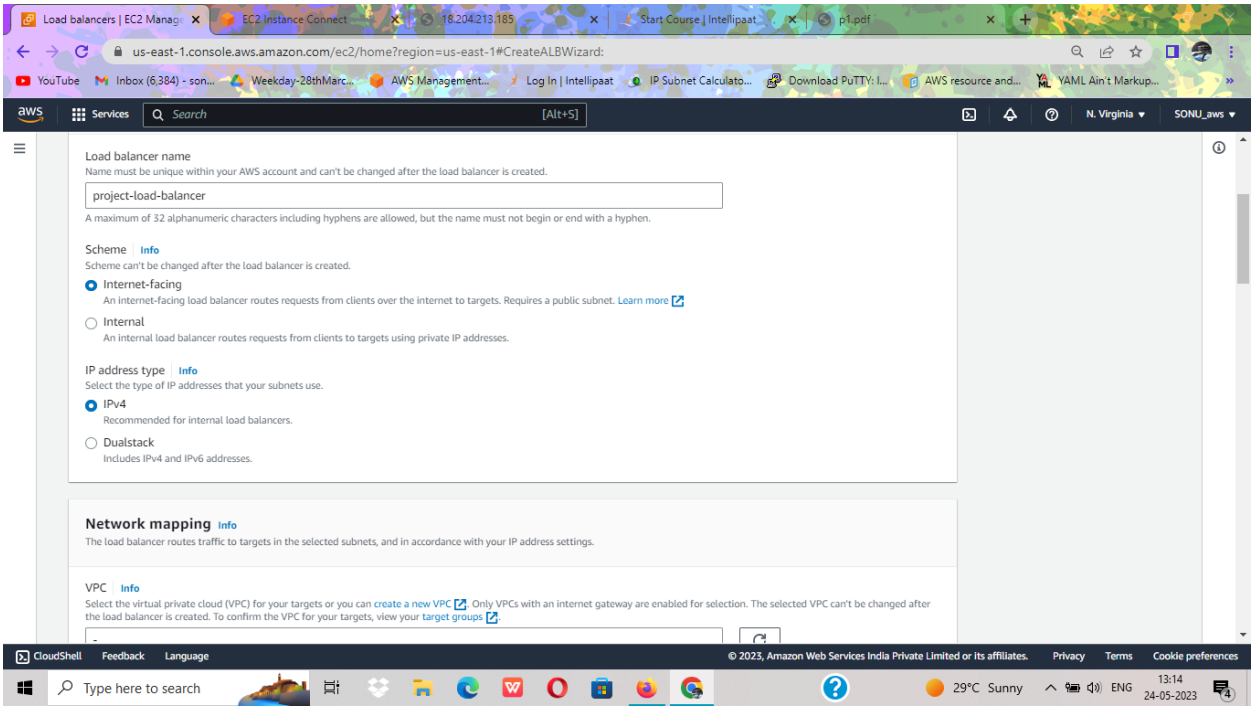
42 our target group is created



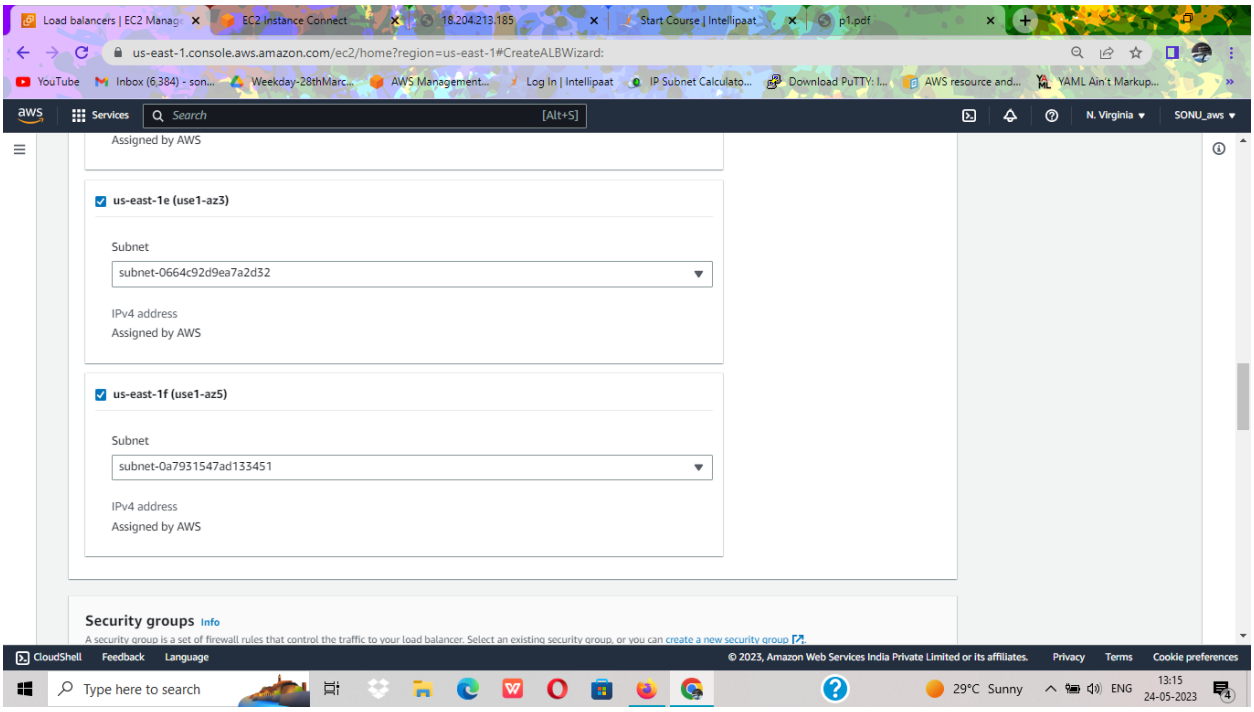
43 we now create our application load balancer



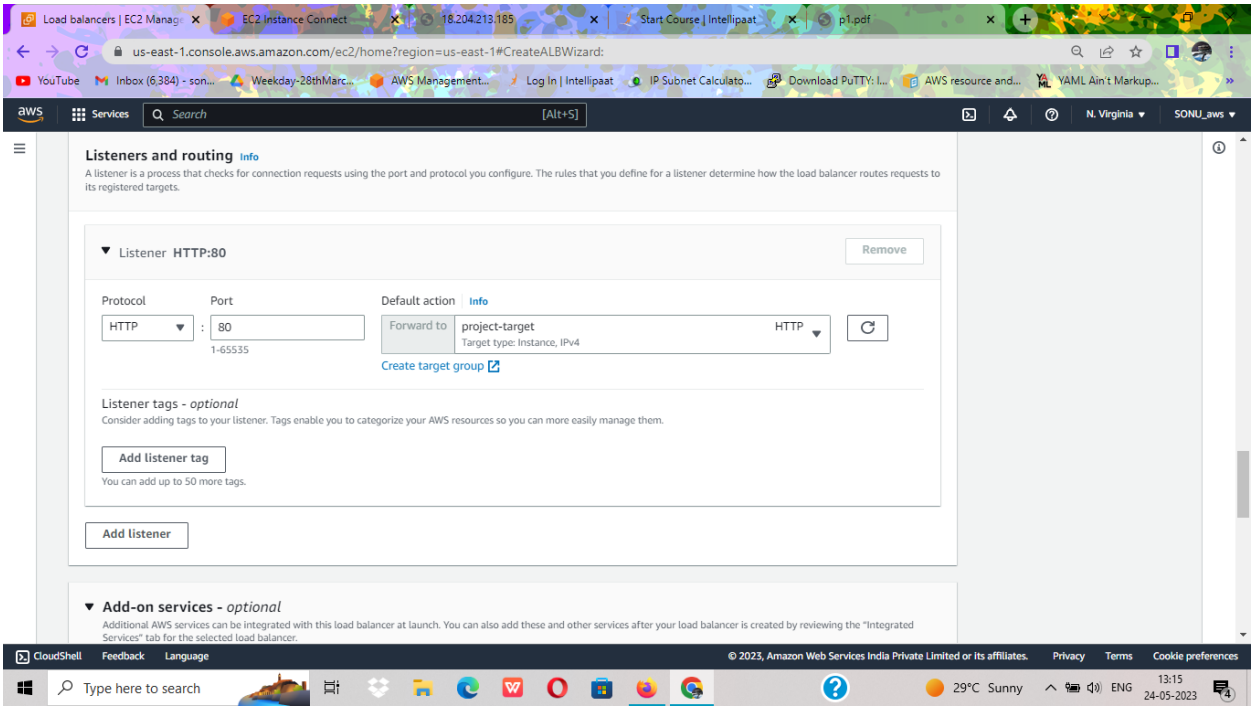
44 we give name to our load balancer



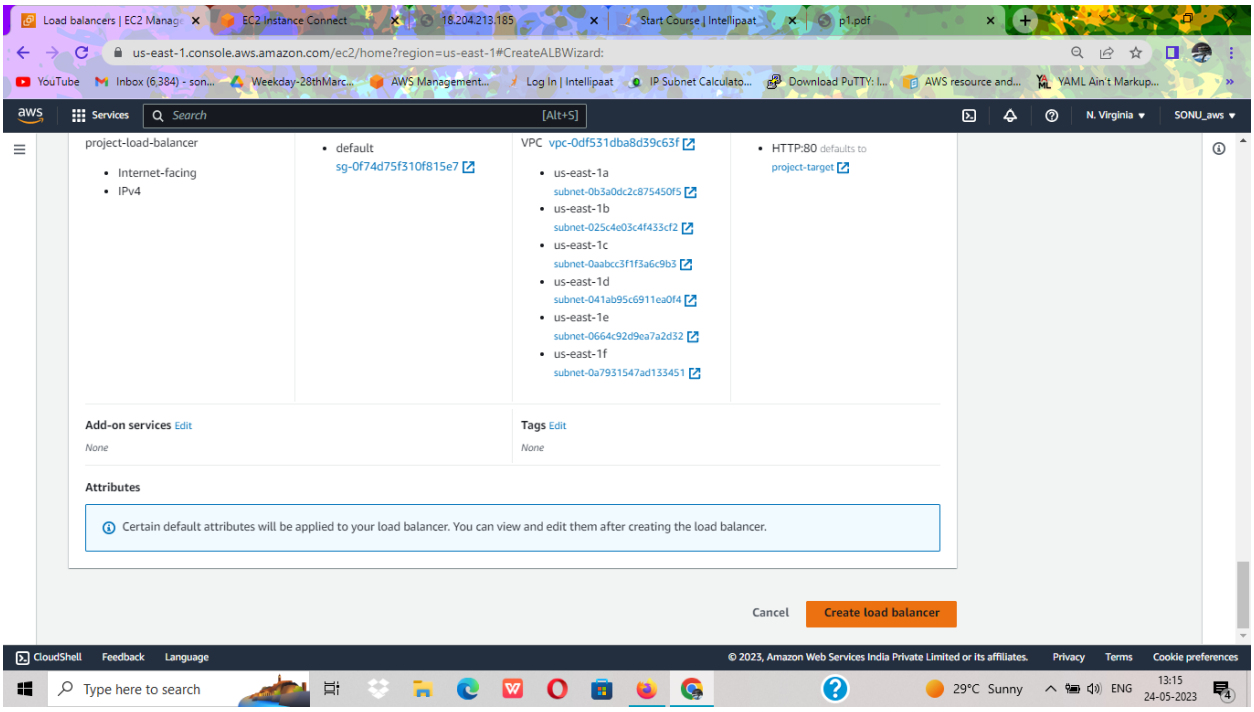
45 we select All AZs



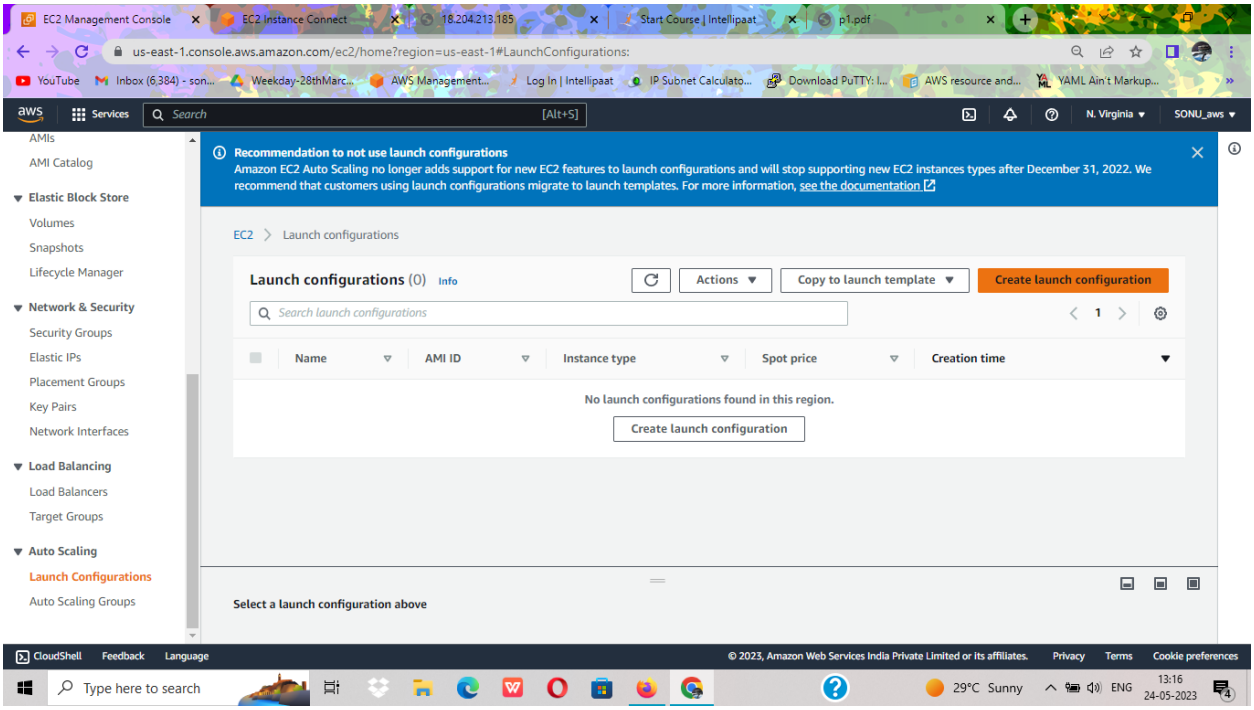
46 we select target group



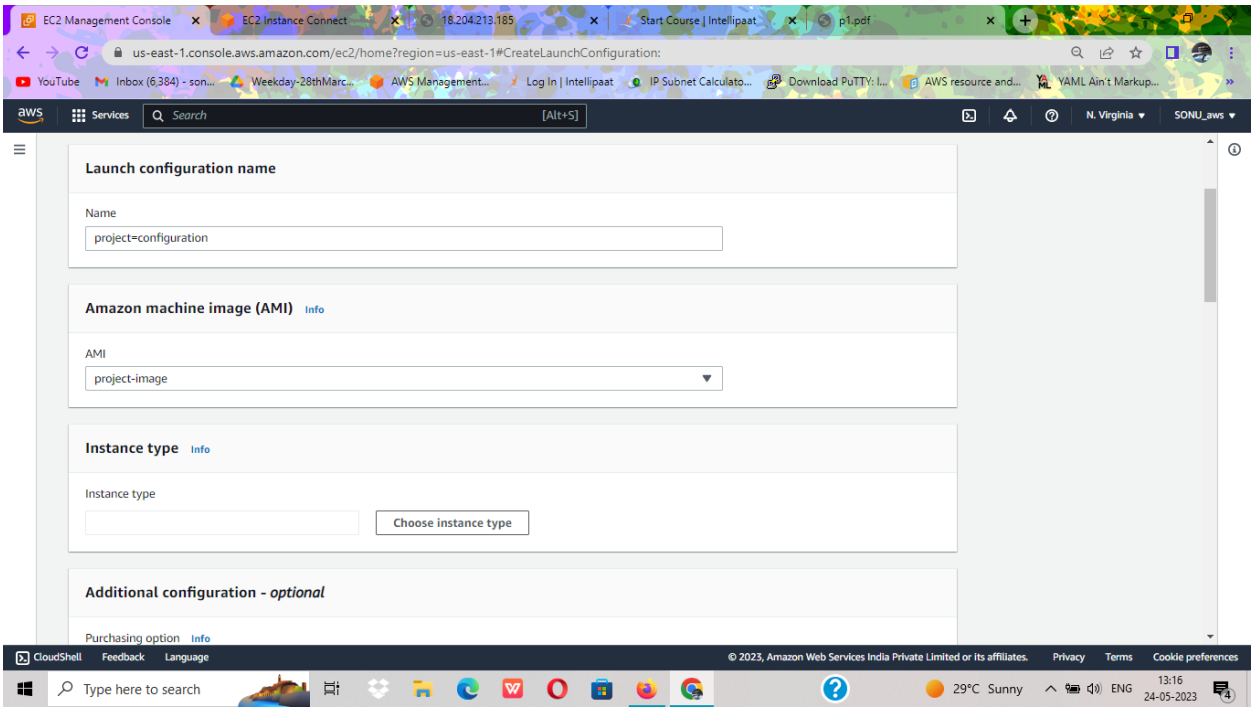
47 create



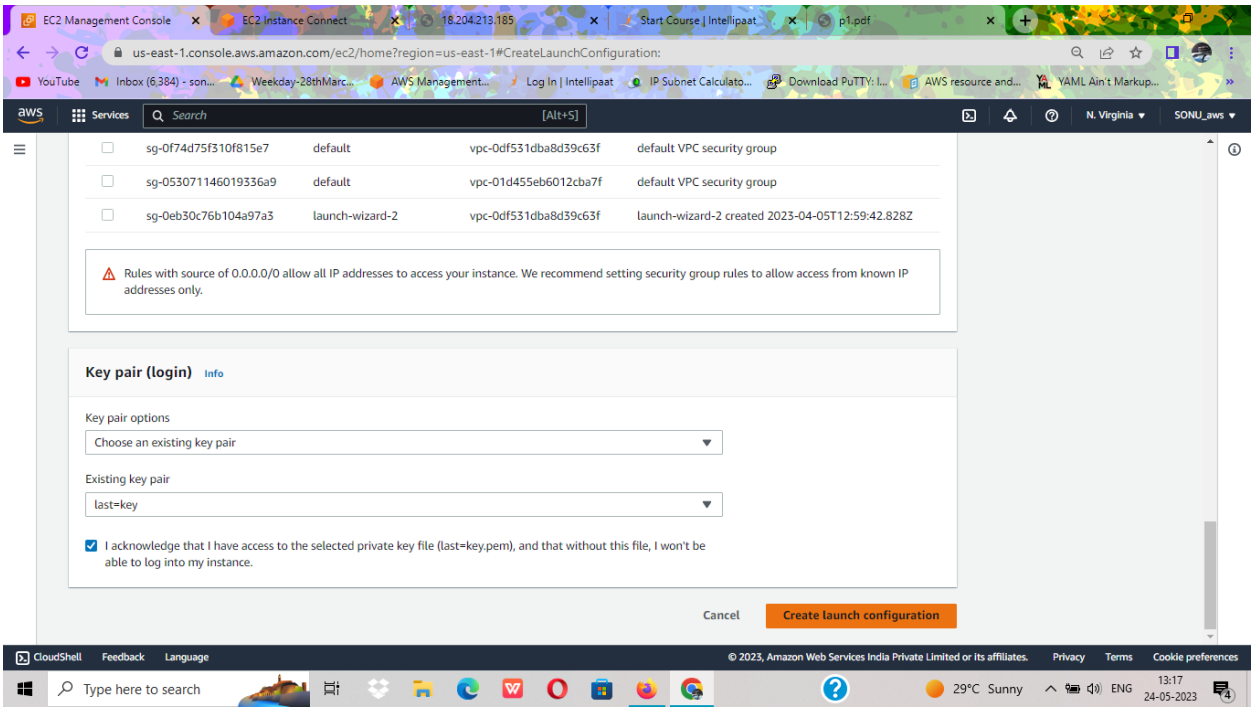
48 now we create configuration



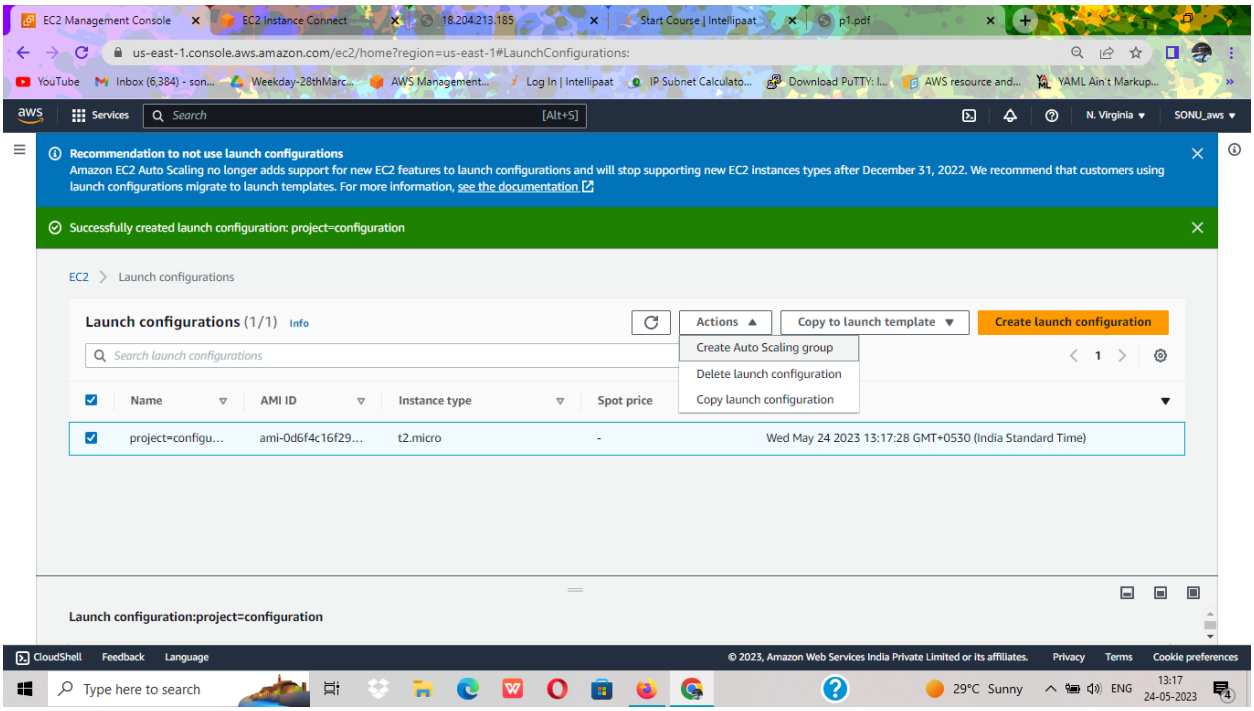
49 we give name



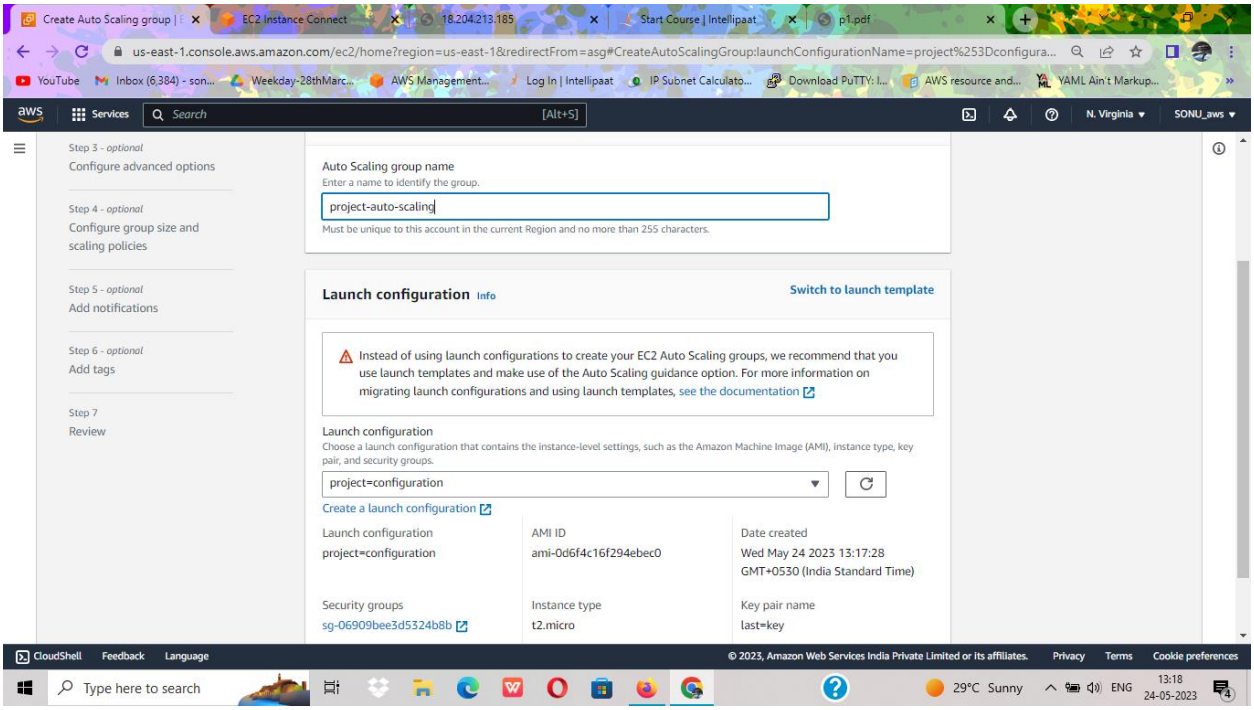
50 create



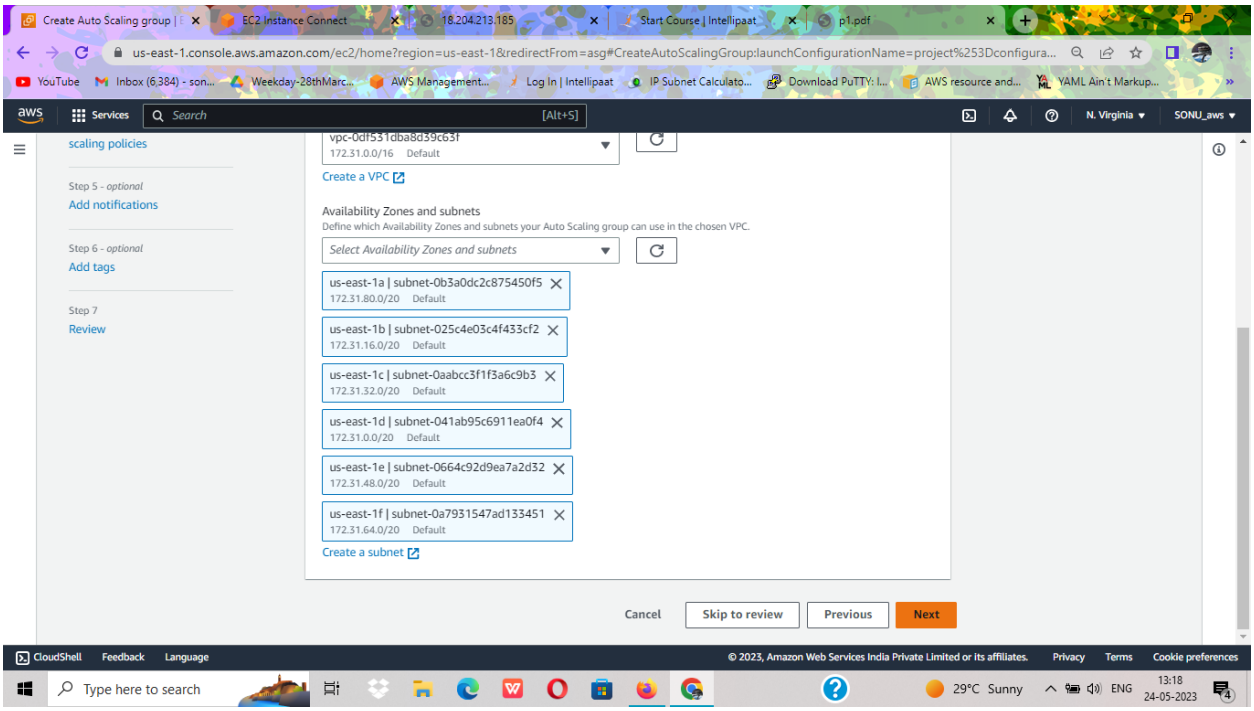
51 now we create auto scaling group as shown below



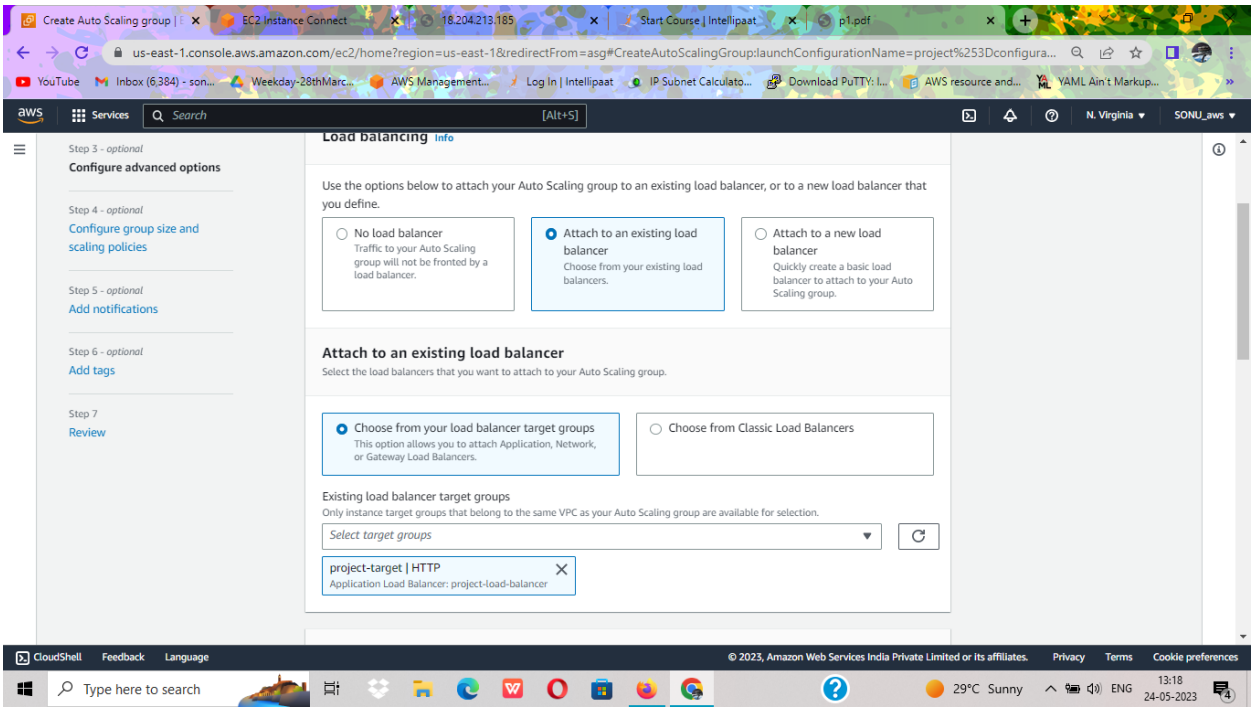
52 we name our group



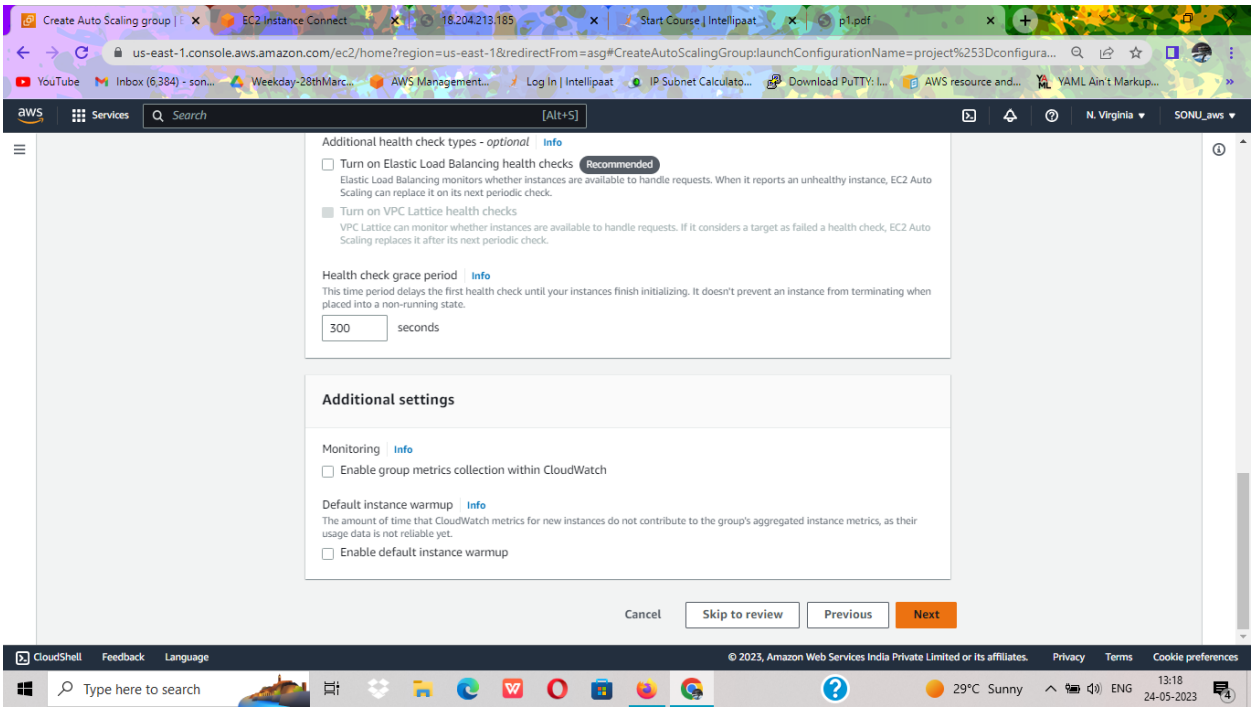
53 select all AZs and next



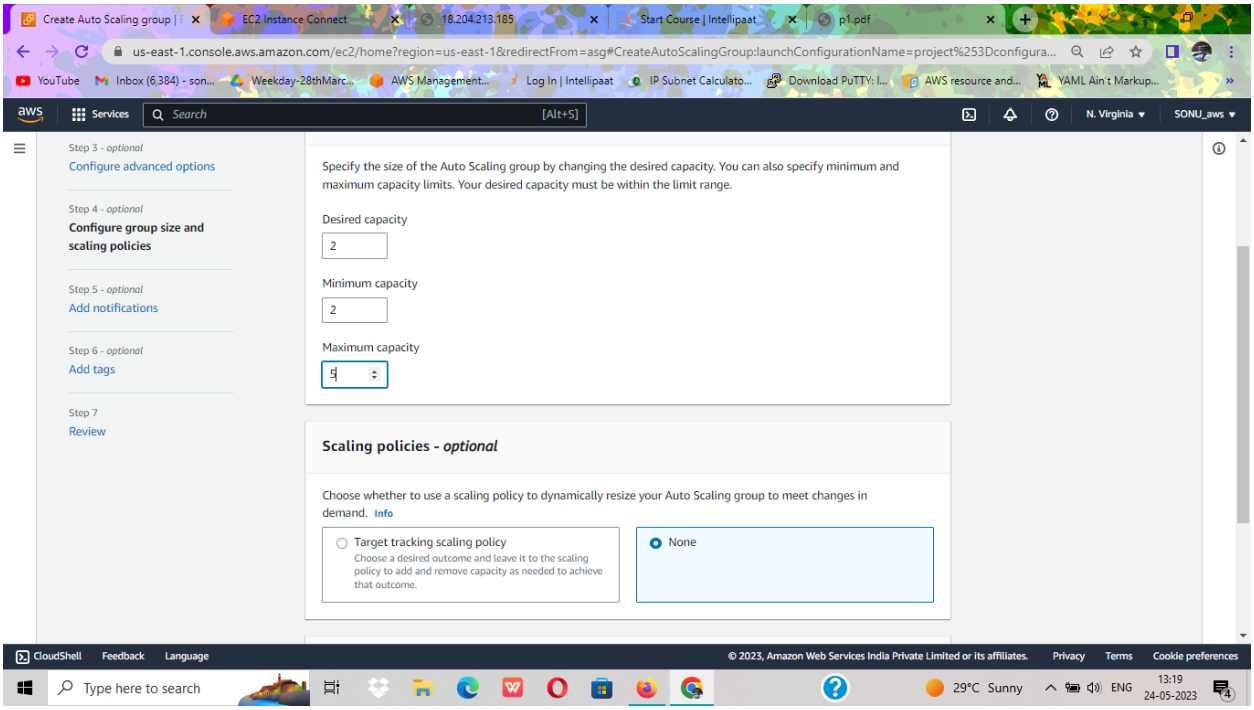
54 we attach our load balancer



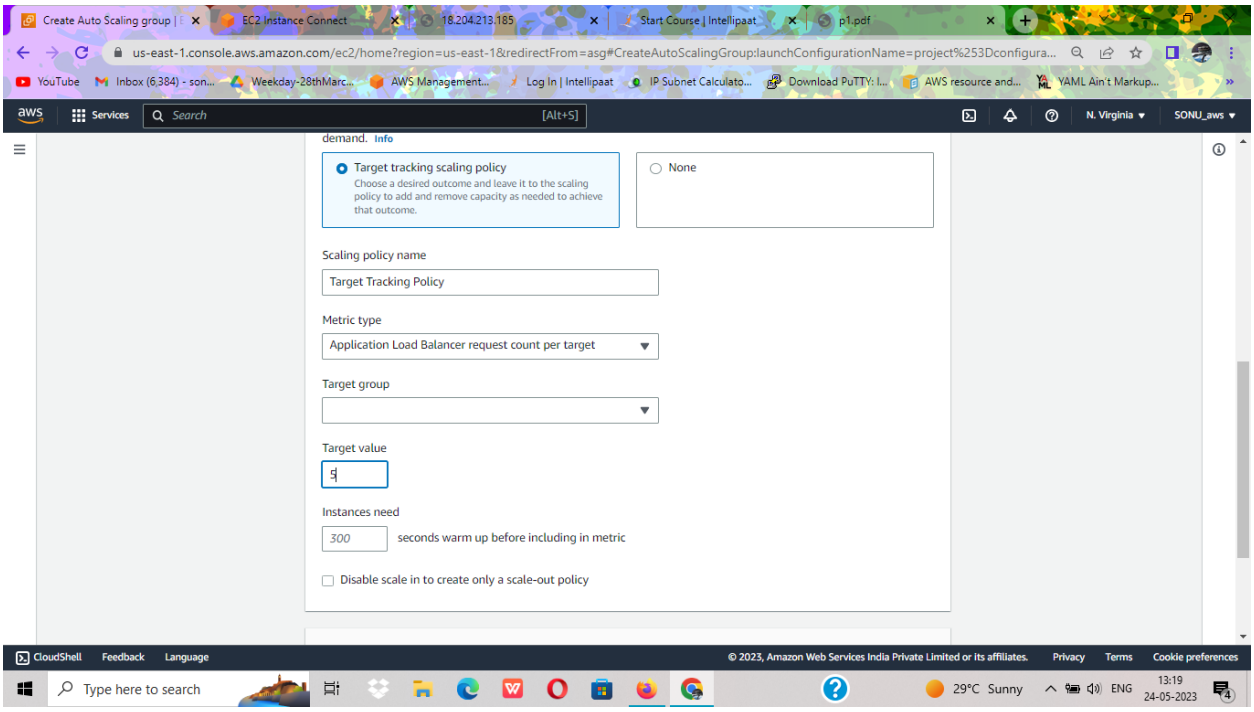
55 next



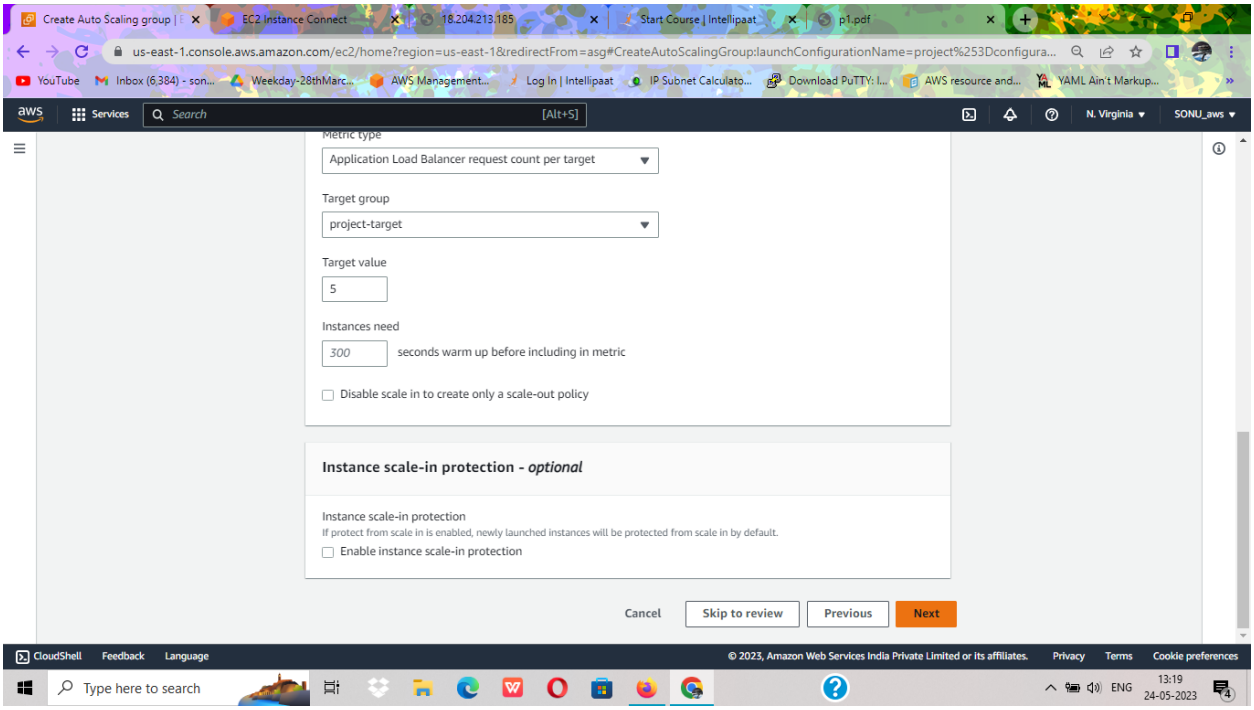
56 we specify our max and min instances



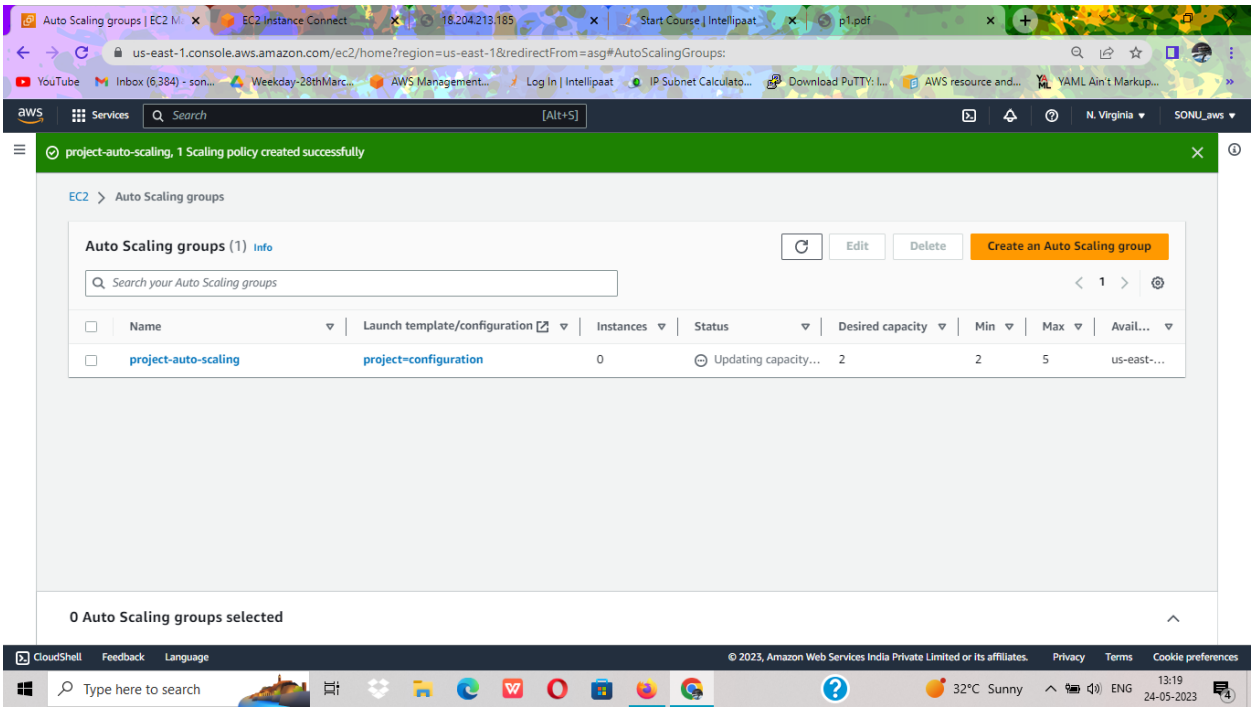
57 we give scaling policy



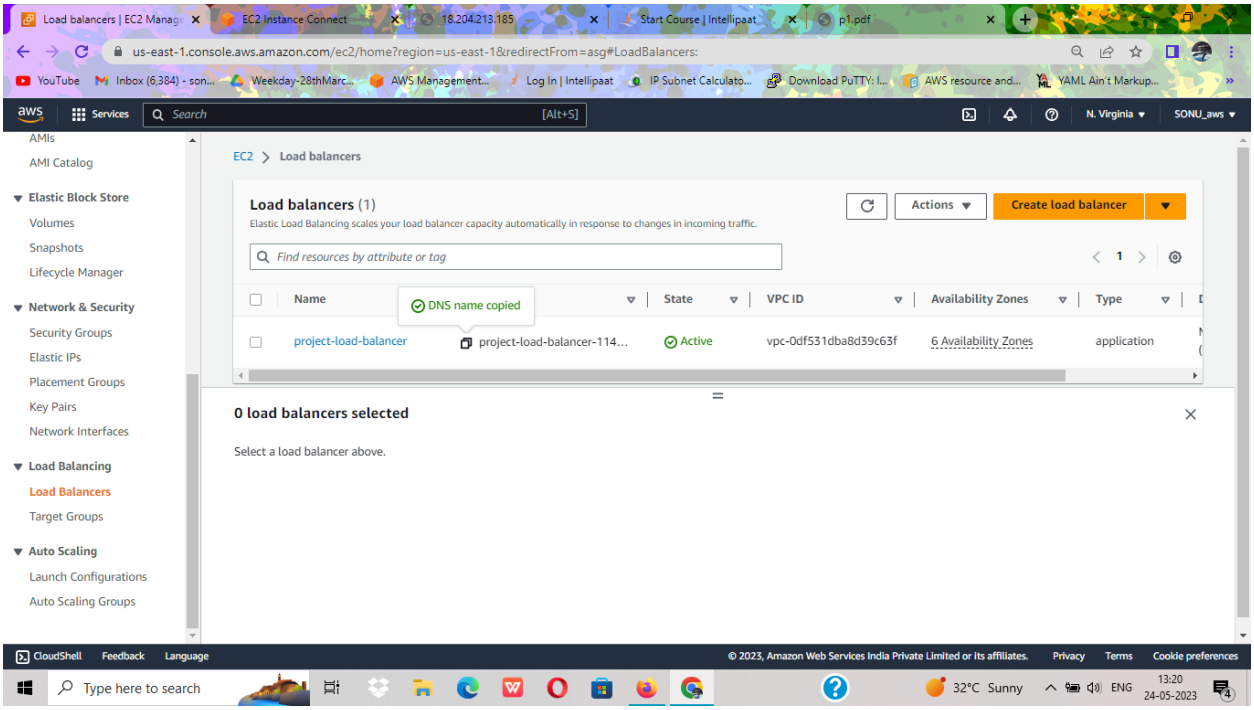
58



59 our autoscaling group is created



60 we copy our DNS link



61 OUR DNS link is working and is sucessfull