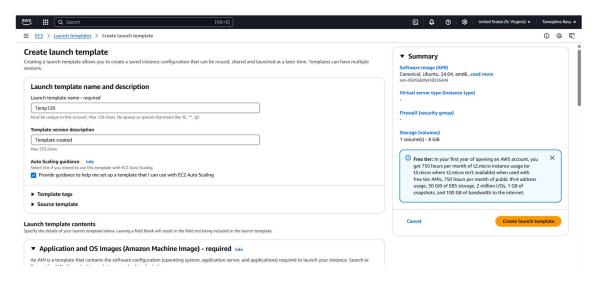
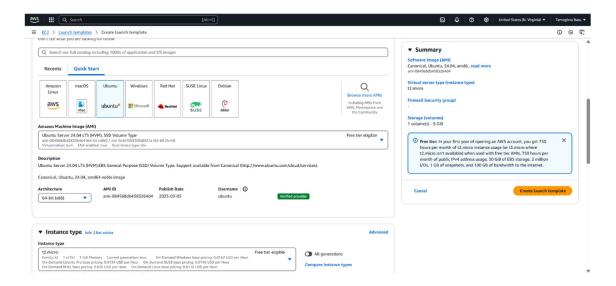
Assignment-11

<u>Problem Definition</u>: Build scaling plans in AWS that balance the load on different EC2 instance.

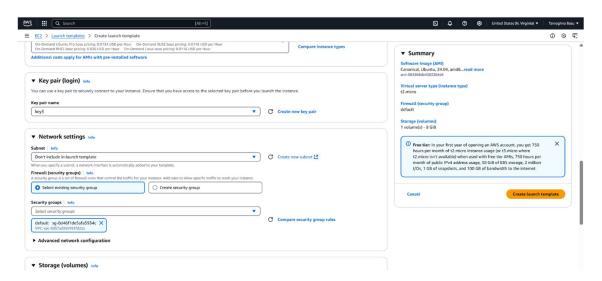
Step-1:Signing in to the AWS Management console, go to lauch template. A template name should be given along with a description and the auto-scaling option is to be checked. Then ubuntu is selected from quickstart.

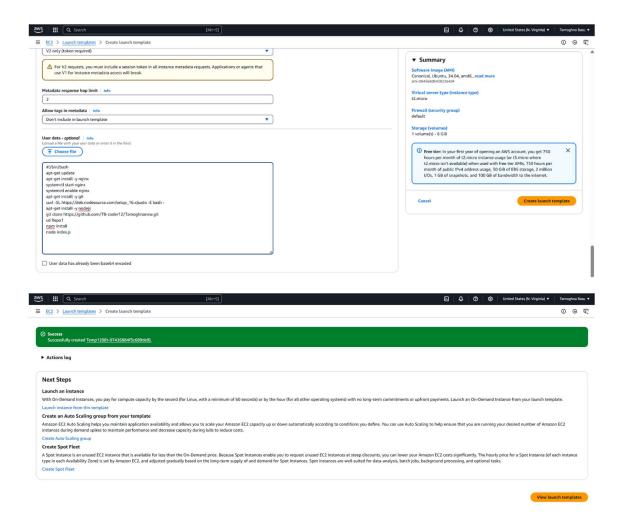


Step-2:Instance type is selected as t2.micro.

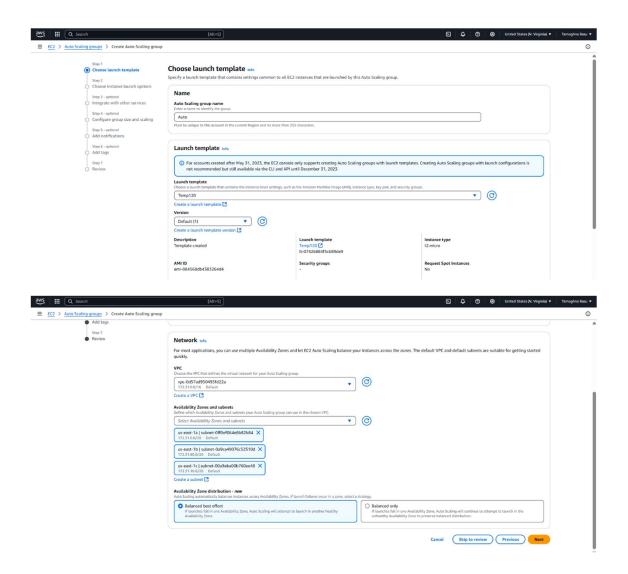


Step-3:A key-pair is selected along with the secuirity group and the user data is given. Create launch template is selected to create a new template.

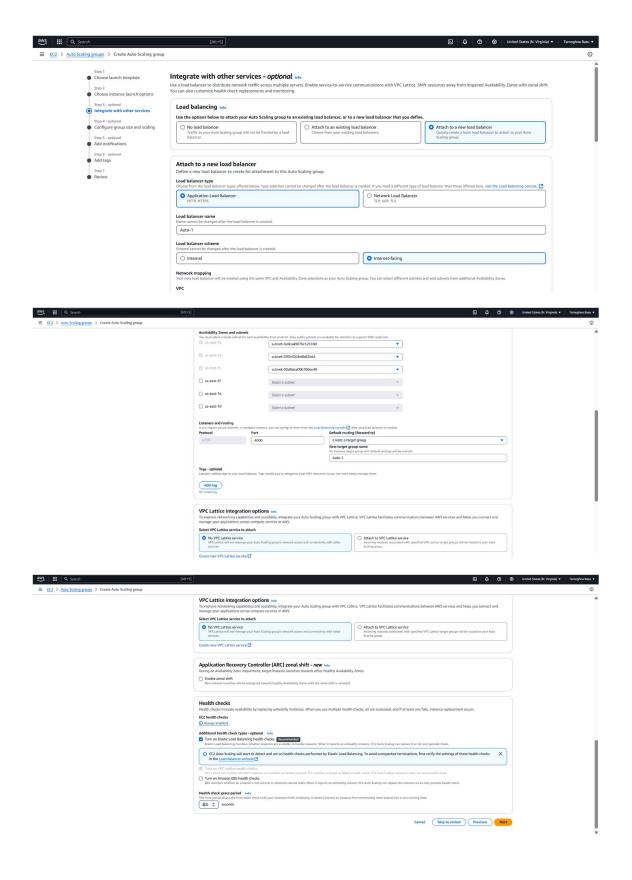




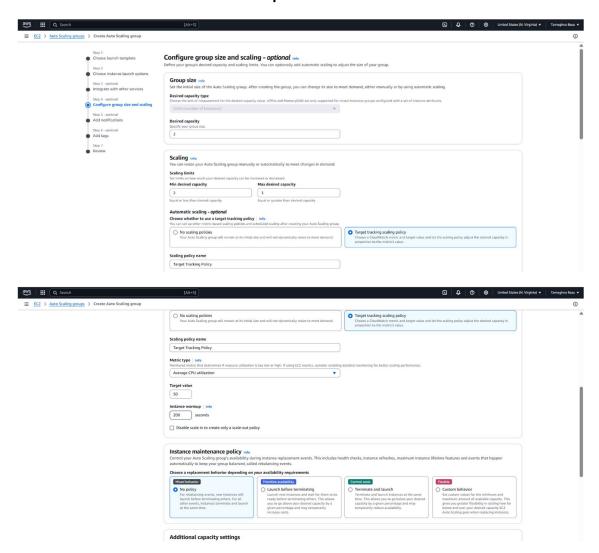
Step-4: Auto-scaling group is reached, a name is given, template is selected, zones are selected, along with Balanced best effort.

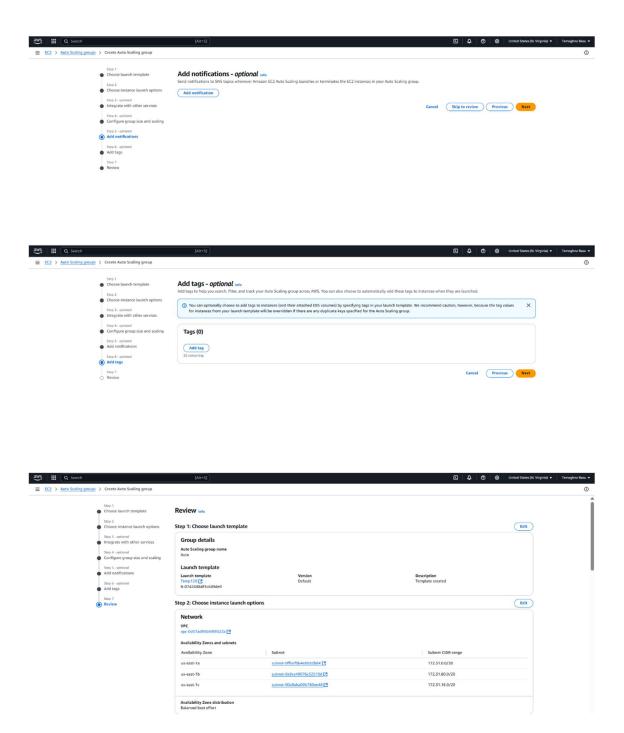


Step-5:On the next page, attach to a new load balancer is selected along with Internet-facing as the load balancer scheme. Additional health check types is enabled.

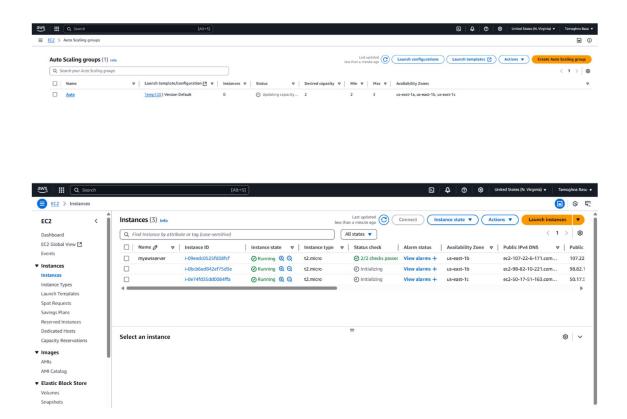


Step-6:In configure group and scaling, desired capacity is selected as 2, along with min value as 2 and max as 3. Target tracking scaling policy is selected. Instance warmup is set for 200 sec.

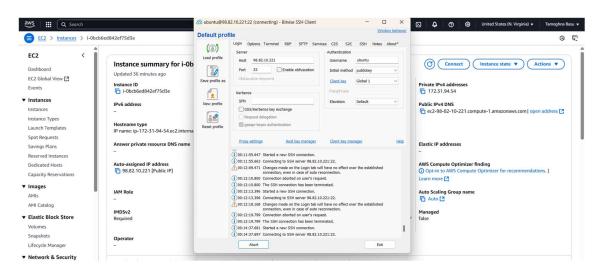




Step-7:Without making further modifications, simply clicking on next, finally the auto scaling group has been created.



Step-8:Bitvise is opened, properly logged in with the key-pair and in the terminal following commands are written.



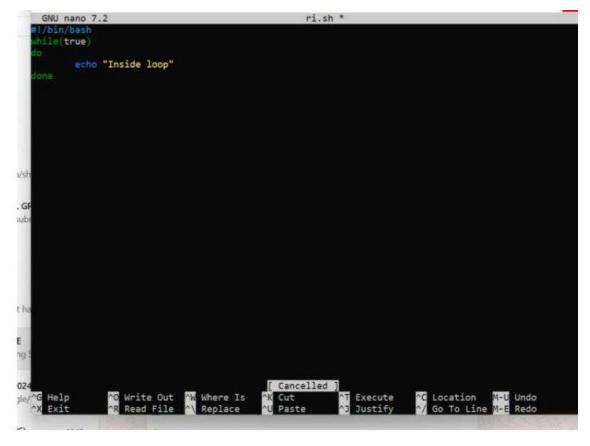
//Sudo nano ri.sh

```
Inside the file we have to write
#!/bin/bash
while(true)
do
    echo "Inside loop"
done
//sudo chmod +x ri.sh
//sh ri.sh
```

```
Last login: Thu Apr 24 14:34:12 2025 from 117.233.194.173
ubuntu@ip-172-31-43-61:-$ sudo nano ri.sh
ubuntu@ip-172-31-43-61:-$ sudo chmod +x ri.sh
ubuntu@ip-172-31-43-61:-$ sh ri.sh

/sh

GF
ub:
```





Step-8:CPU utilization is checked on the monitoring section after the bash file is executed and the third instance is created as a result of it.

