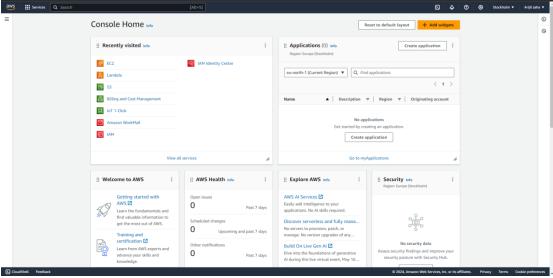
PROBLEM STATEMENT:

new group78

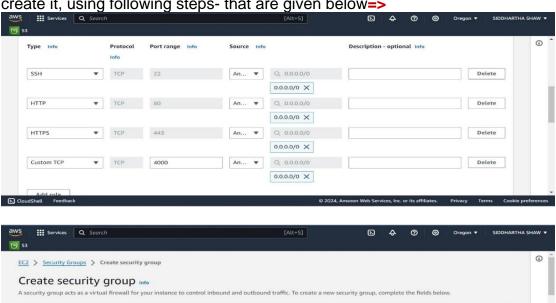
11) Build scaling plans in AWS that balance the load on different EC2 instances.

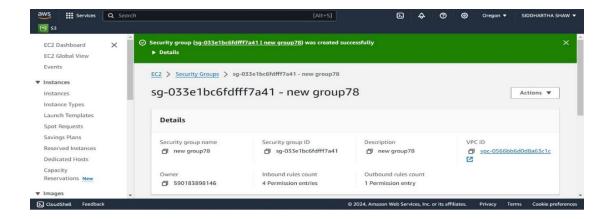
Steps to build scaling plans:

1. Sign up for an AWS account, search for 'EC2' then click on it.

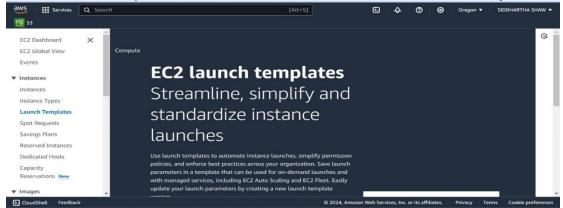


2. If you have an existing Security group then no need to create it if not then create it, using following steps- that are given below=>

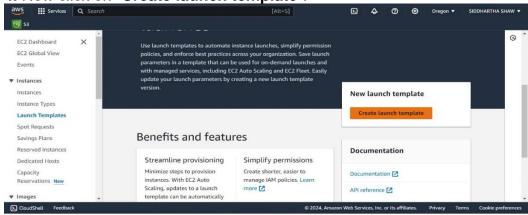




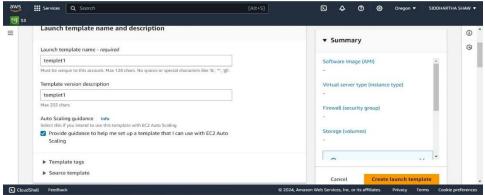
3. Create one template. Click Instances & there click on "Launch template".



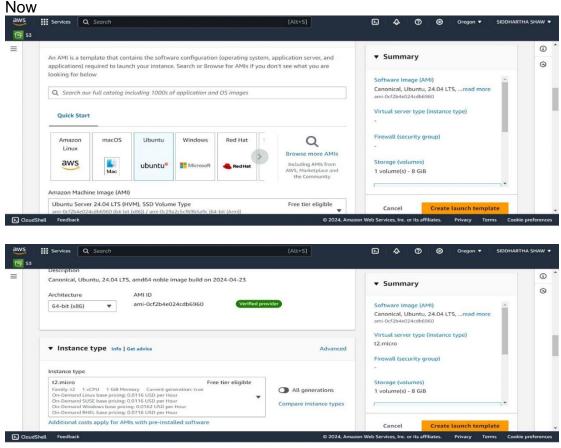
4. Now click on "Create launch template".



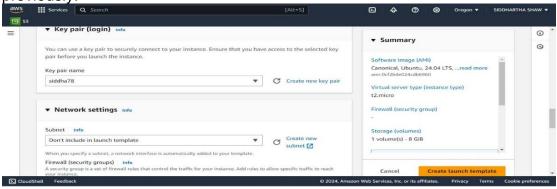
- **5.** Under "Create launch template", give the following details.
- **a.** Firstly, we created "**templet1**" -that defines the launch templets name.

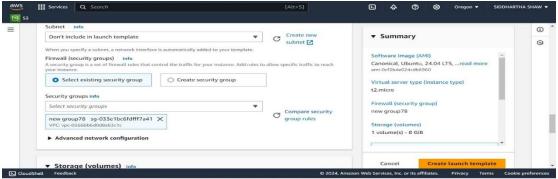


b. Click on "Quick start"->ubuntu & "Instance type"->t2.micro as it is free.

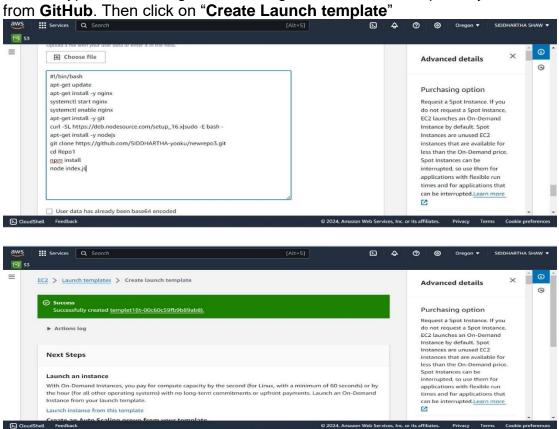


c. selects the **key pair** & the **existing** security group which you created previously.

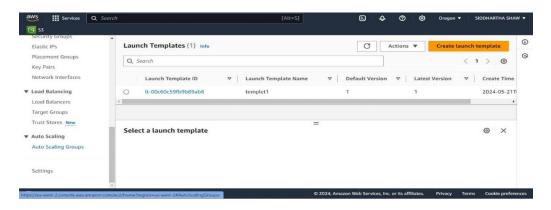




d. Expand the "Advanced Details" & scroll down to the bottom, in the bash console type the following commands, give the address & repository name



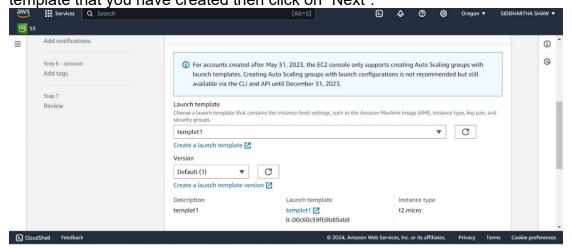
6. Template has successfully created & now go the next step.



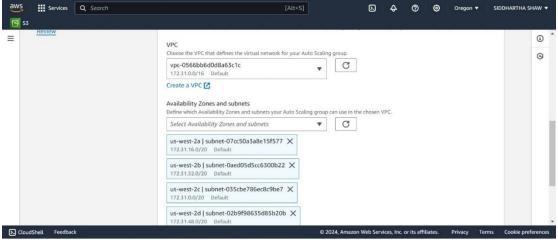
7. Now Click on "Create Auto Scaling group".



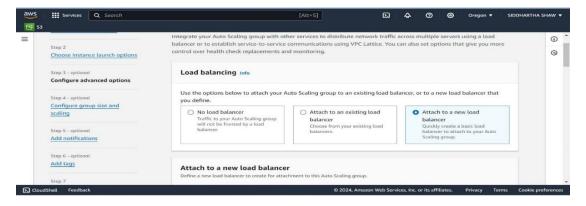
8. a. Under "Create Auto Scaling group", give the name & choose the template that you have created then click on "Next".



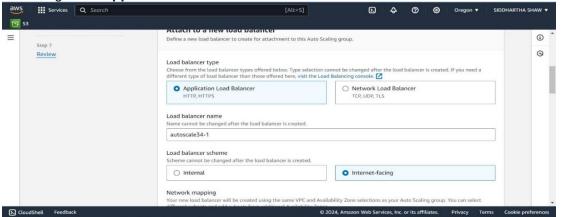
b. Then select all the "Availability Zones and subnets" & click on "Next".



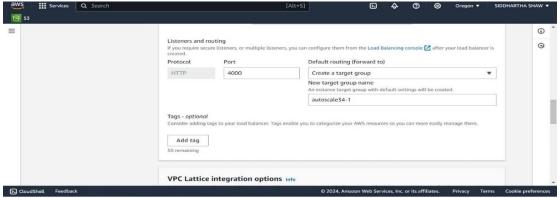
c. now go the "load balancing" part and selected "Attached to a new load balancer".



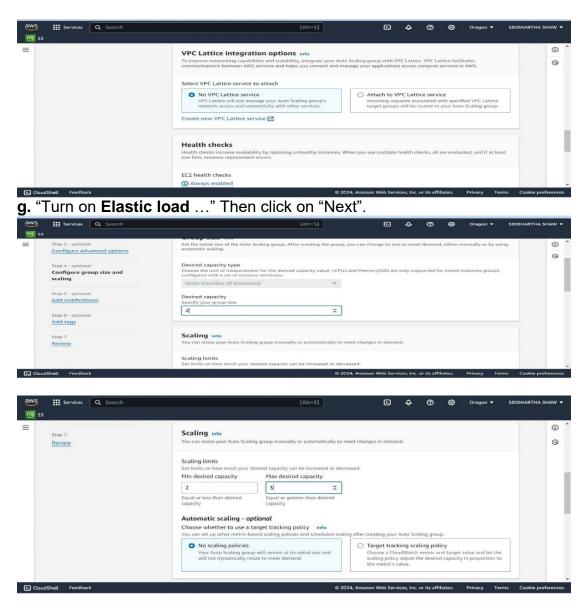
d. then go the "Application load balancer" and create a "load balancer".



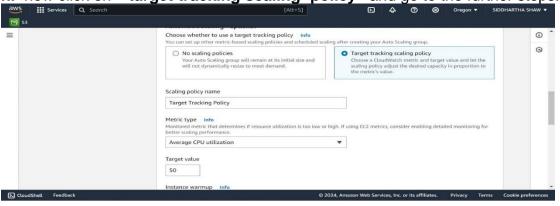
e. now we do this.

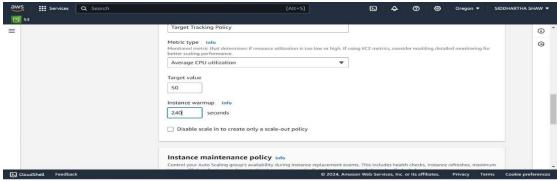


f. Click on "**No VPC Lattice service**". In "Health checks", click on the checkbox

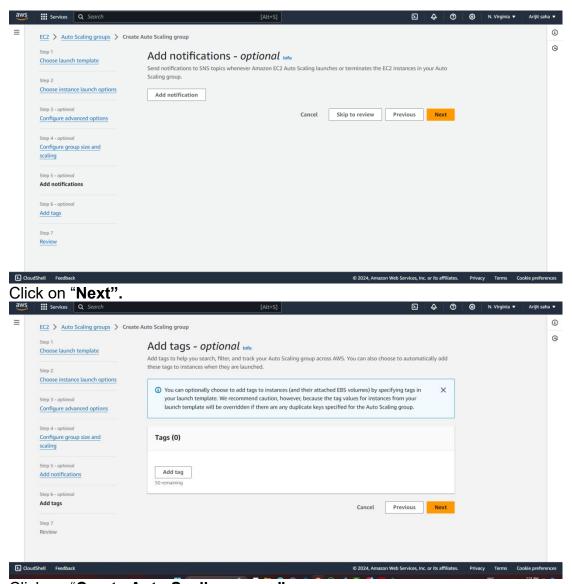


h. now click on "target tracking scaling policy" and go to the further steps.

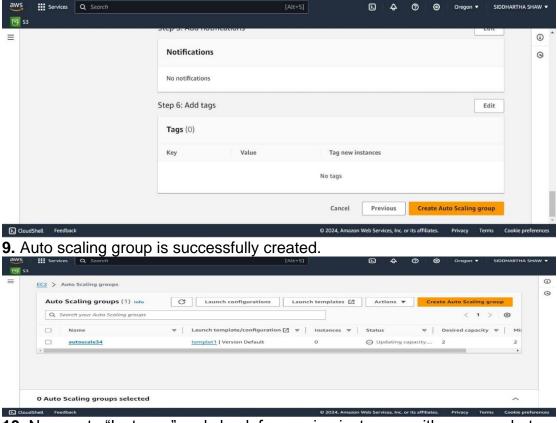




Click on "No policy" then on "NeXT". Click on "Next".



Click on "Create Auto Scaling group".



10. Now go to "Instance" and check for running instances with no name but then click on

any one of the instance ID & copy the "Public IPv4 address".

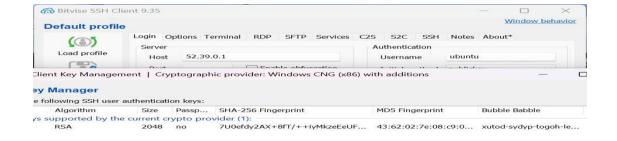


11. Paste the address in a new Window.



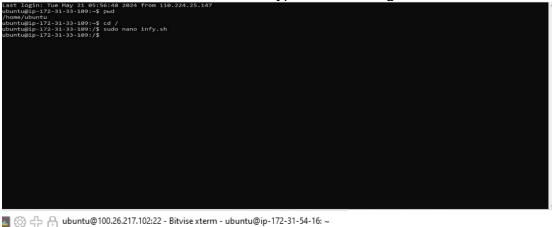
12. Now add ":4000" at the end of the IPv4 address and press enter.

13. Then copy the address of any one of the instances & paste in the host of the "**Bitvise** SSH Client" then click on "Client key Manager".



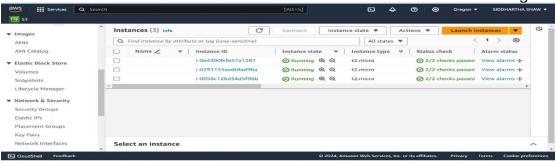


- 14. Then import the key & click on "Log in".
- **15**. The "Log out" came means that is is successfully logged in.
- 16. Now in "New terminal console and type the following commands.

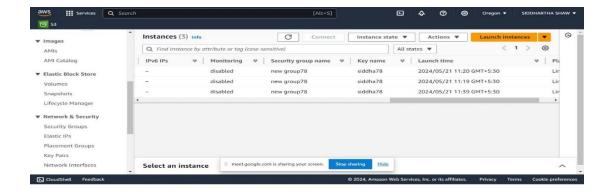




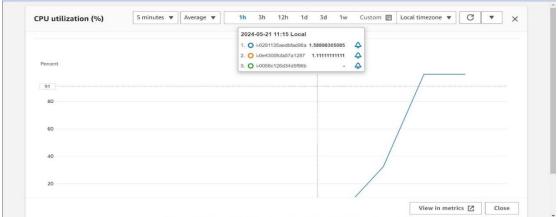
17. Now in Instances select both the unnamed instances & click on 'Enlarge'.



See the "time zone"



18. Here, we see the graph of CPU utilization (%) & select "Local time zone".



19. Here, we see that two instances are running along with the initialization of the third instance.

