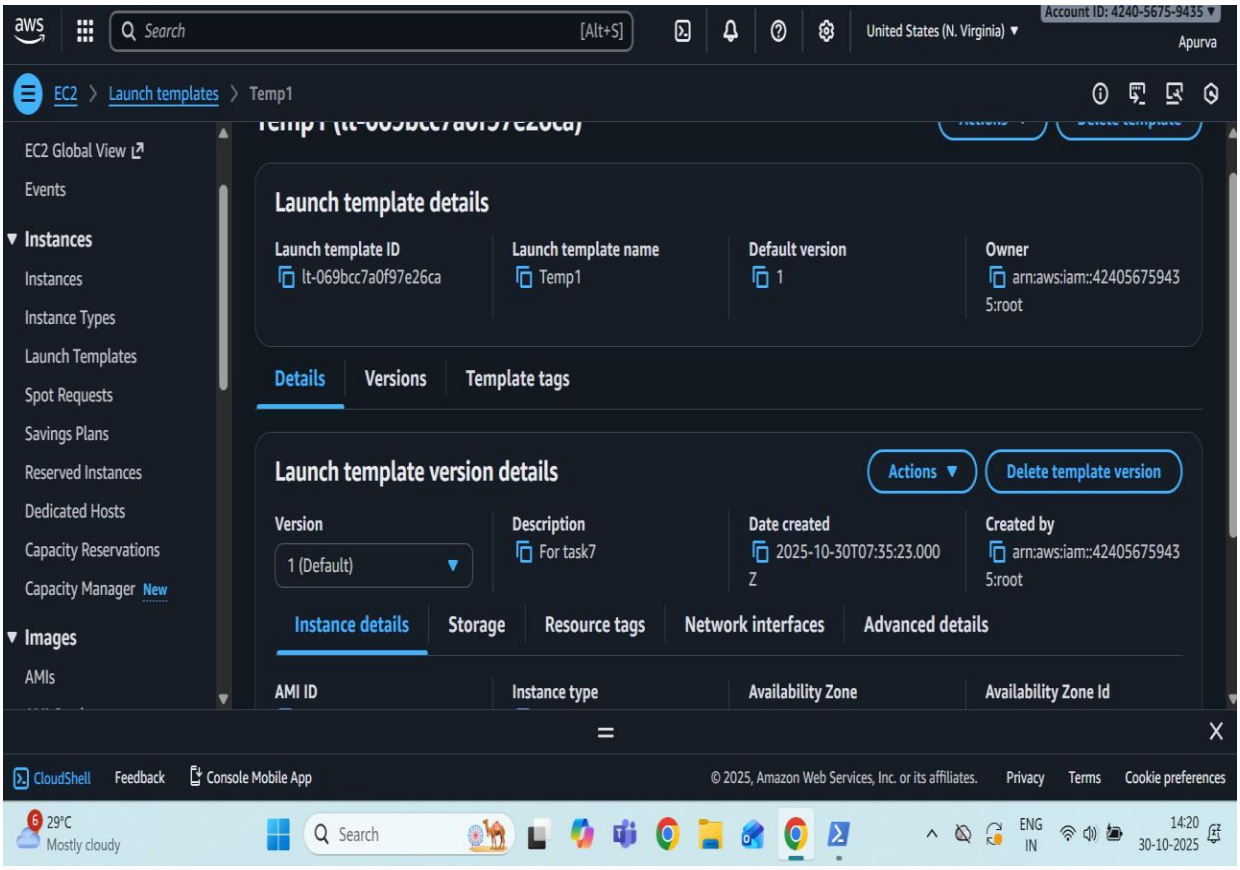
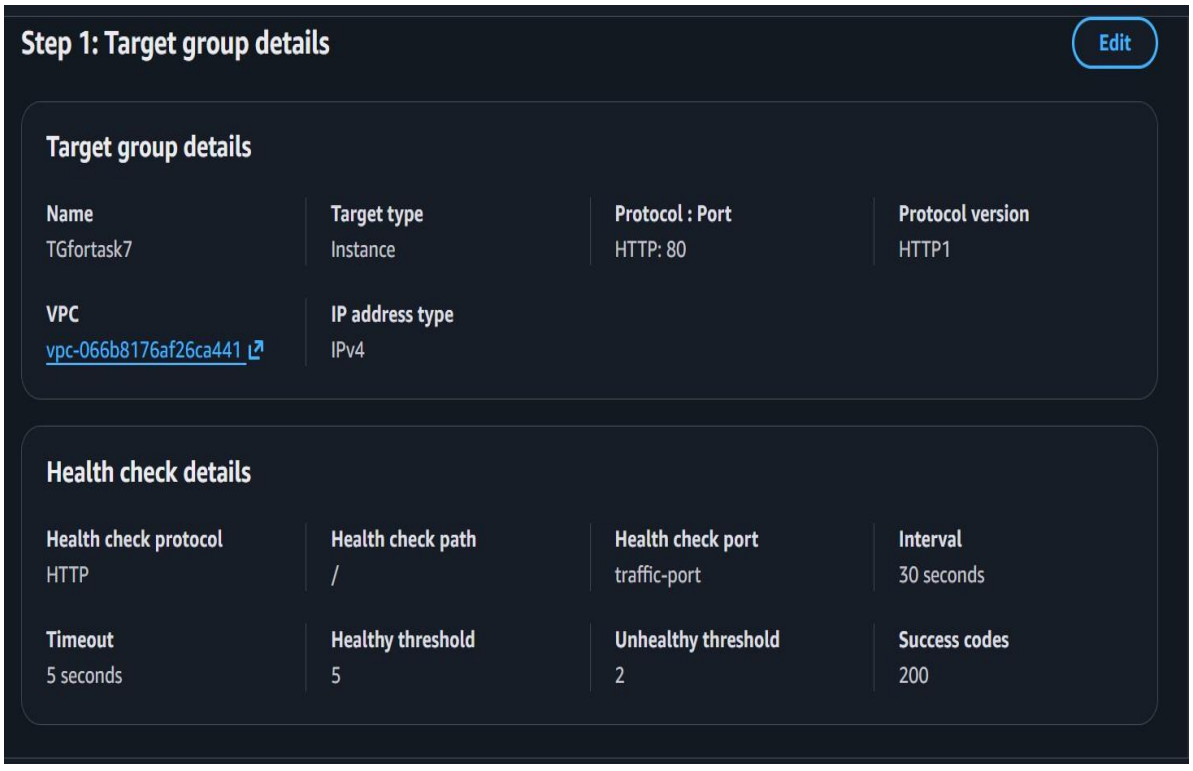
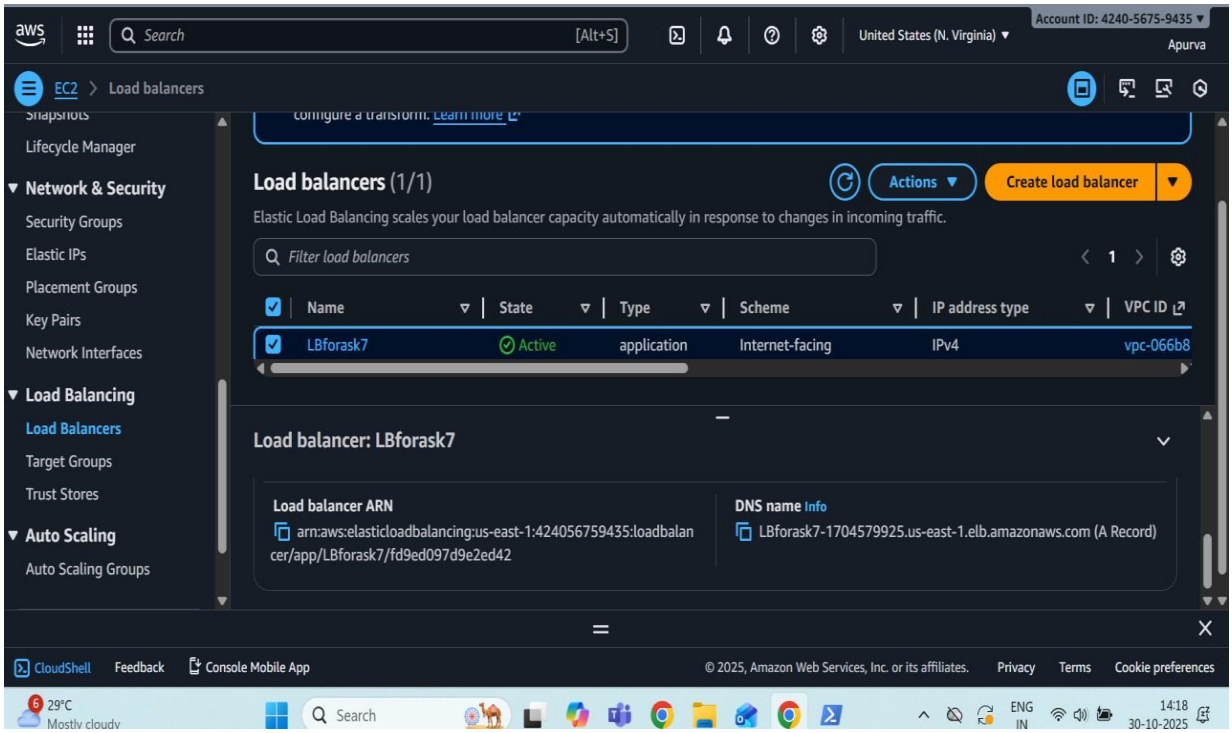
1. Launch Template (with user data)



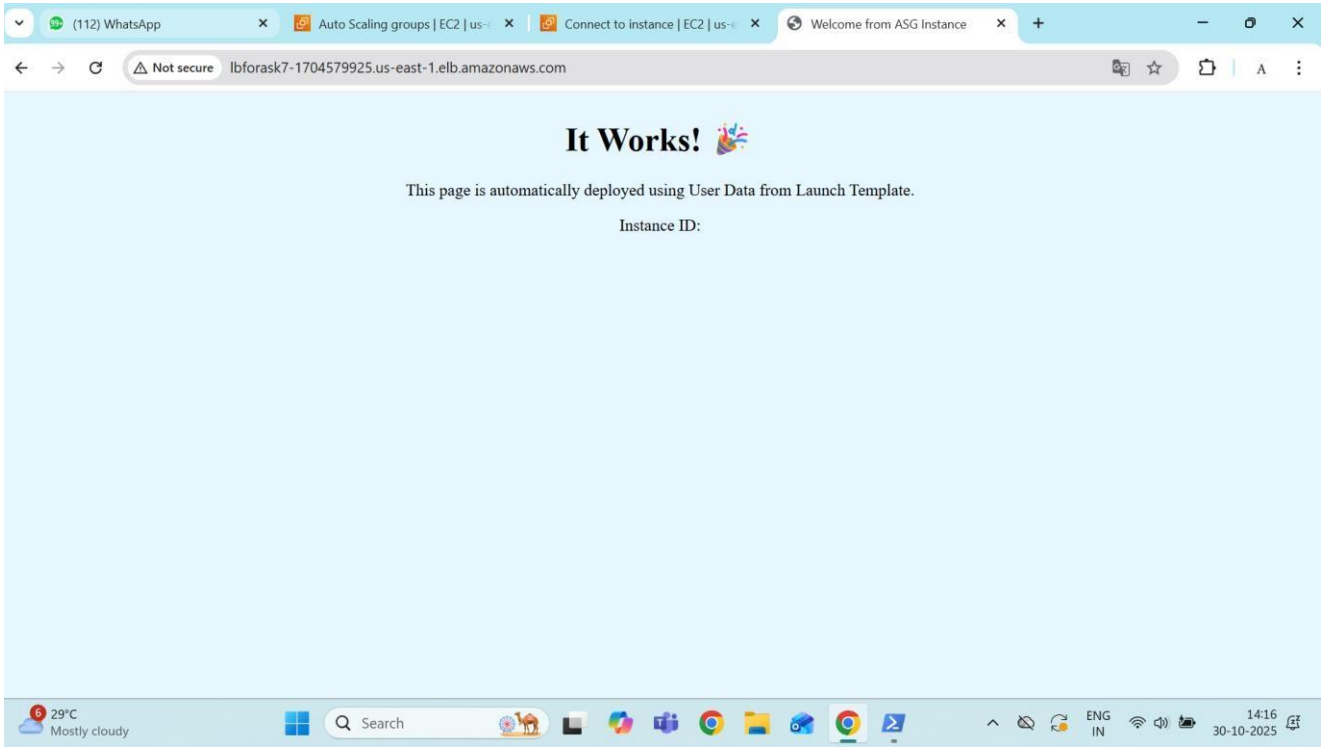
2. Target Group creation

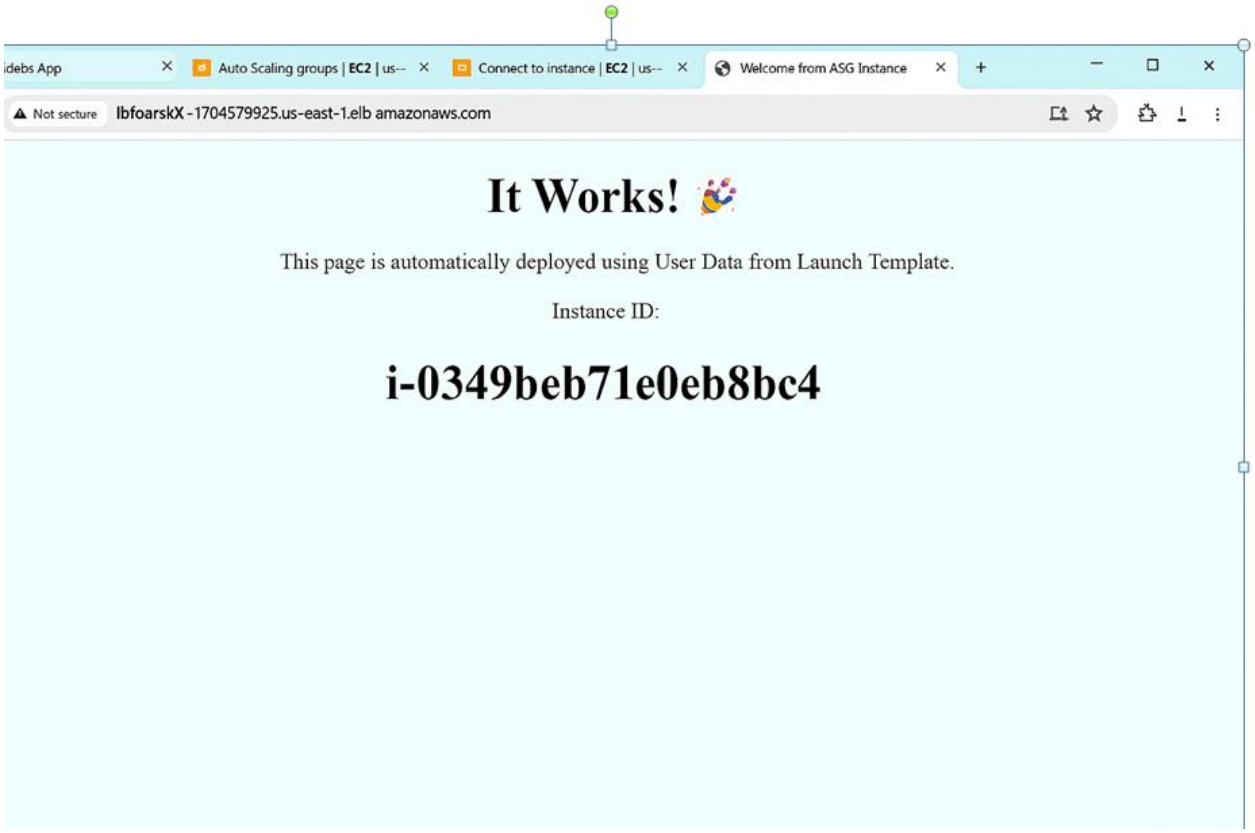


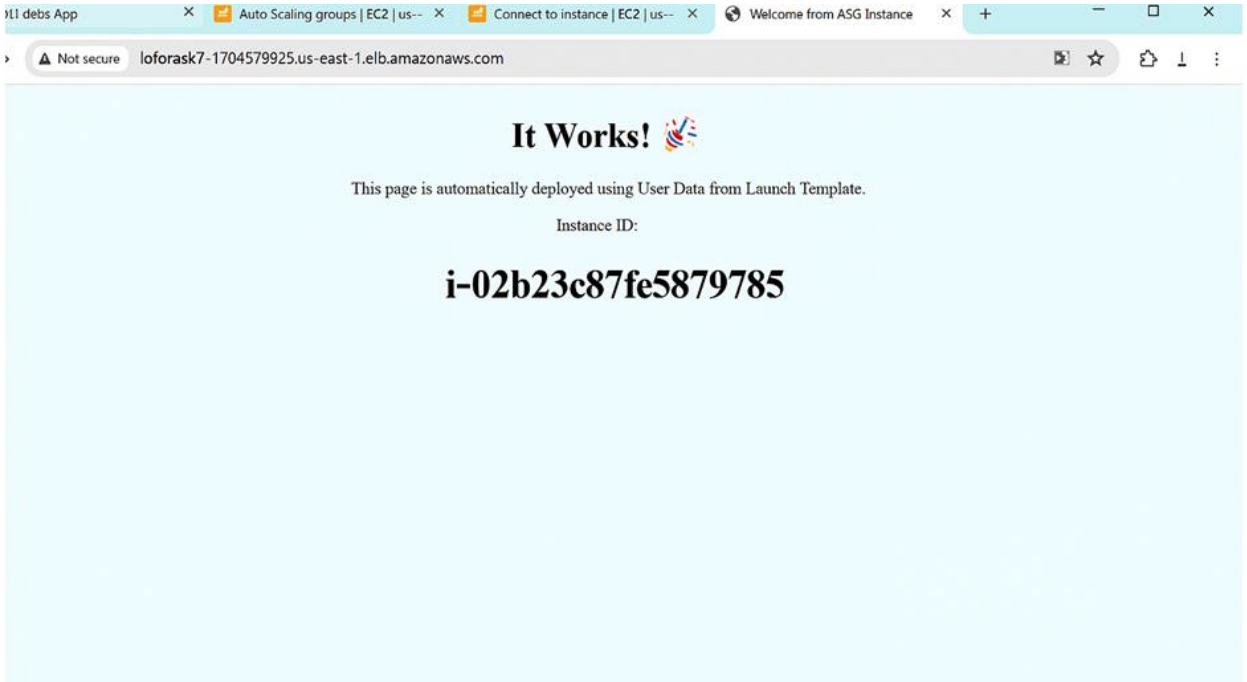
3. Load Balancer listener setup



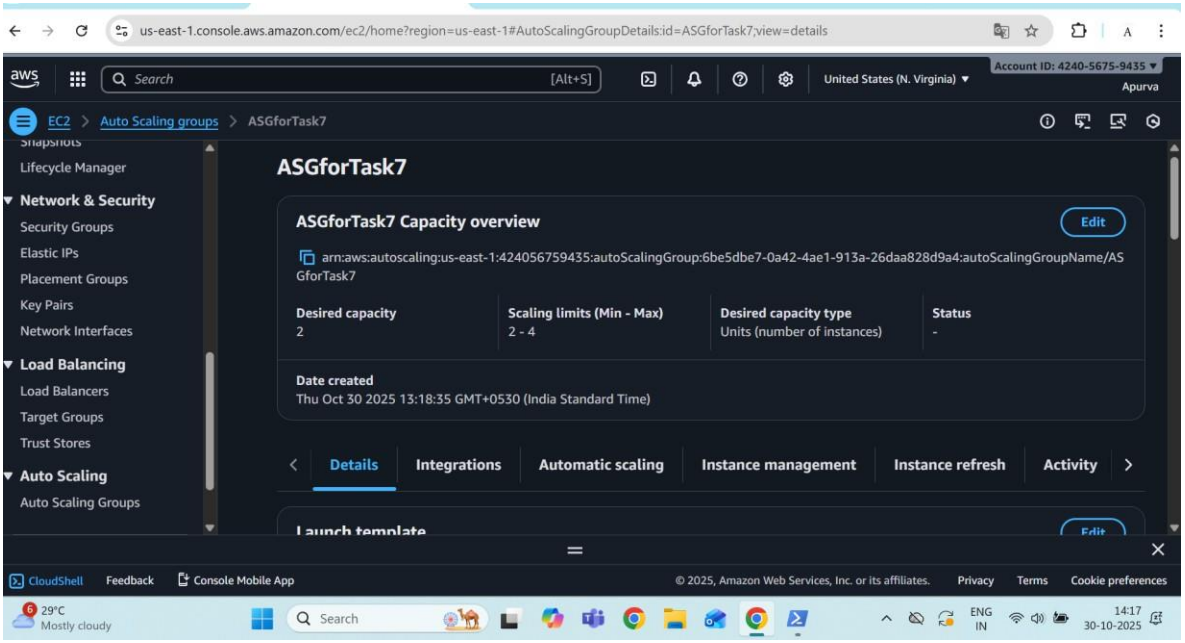
4. Public load balancer URL (working app) and resolving traffic to different instances as shown below



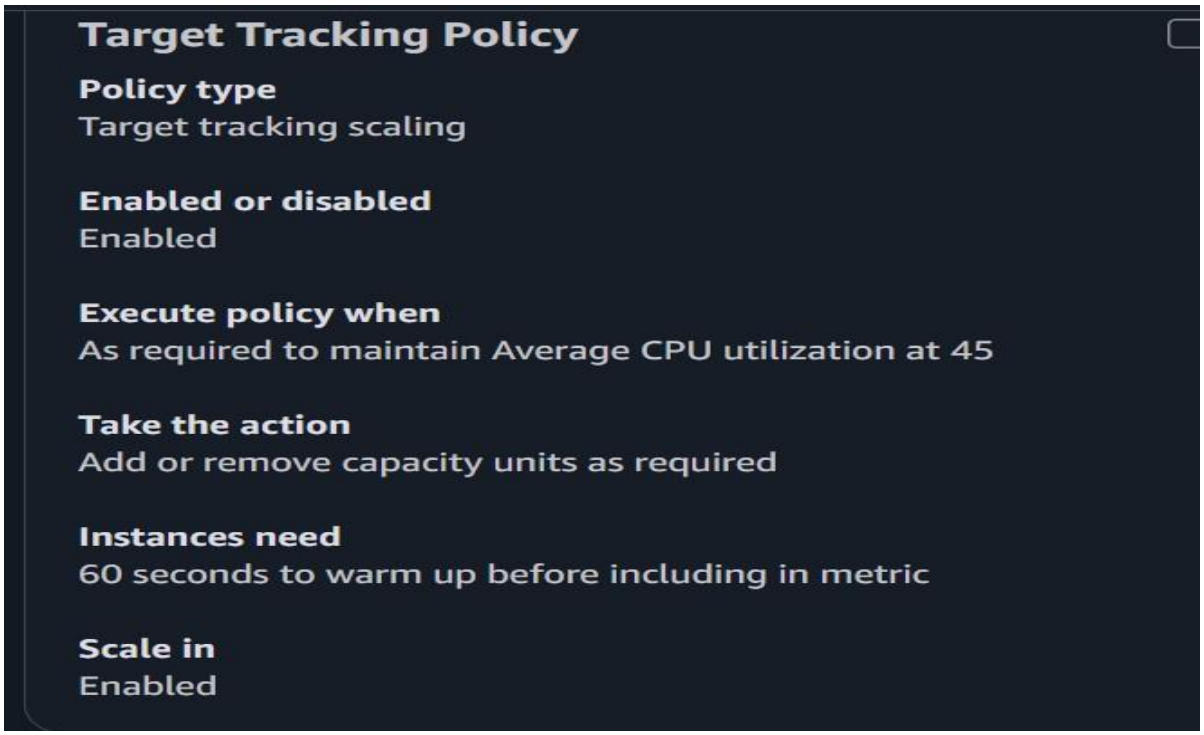

idebs App
Auto Scaling groups | EC2 | us--
Connect to instance | EC2 | us--
Welcome from ASG Instance
Not secure
lbfoarskX-1704579925.us-east-1.elb amazonaws.com
It Works!
This page is automatically deployed using User Data from Launch Template.
Instance ID:
i-0349beb71e0eb8bc4


)11 debs App
Auto Scaling groups | EC2 | us--
Connect to instance | EC2 | us--
Welcome from ASG Instance
Not secure
loforask7-1704579925.us-east-1.elb.amazonaws.com
It Works!
This page is automatically deployed using User Data from Launch Template.
Instance ID:
i-02b23c87fe5879785

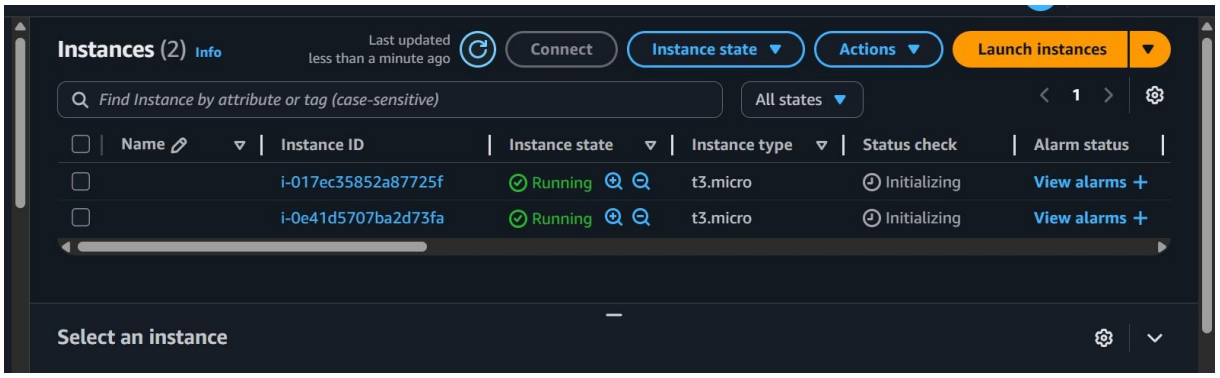
5. Auto Scaling Group details



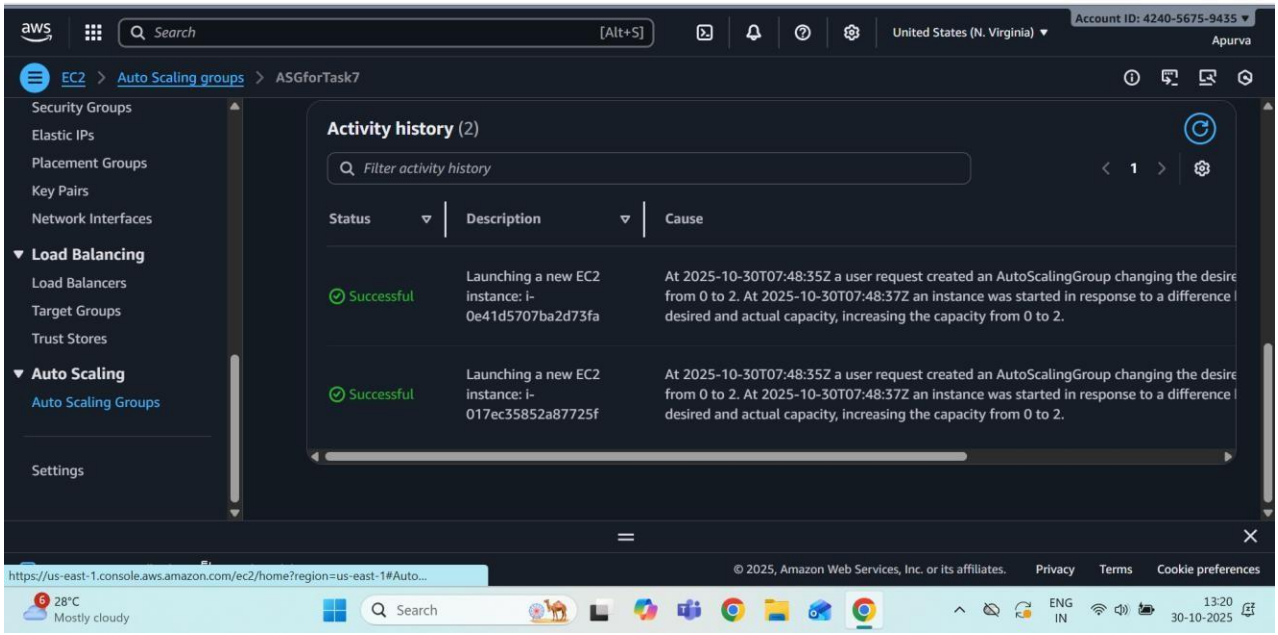
6. Scaling Policy (Target Tracking)

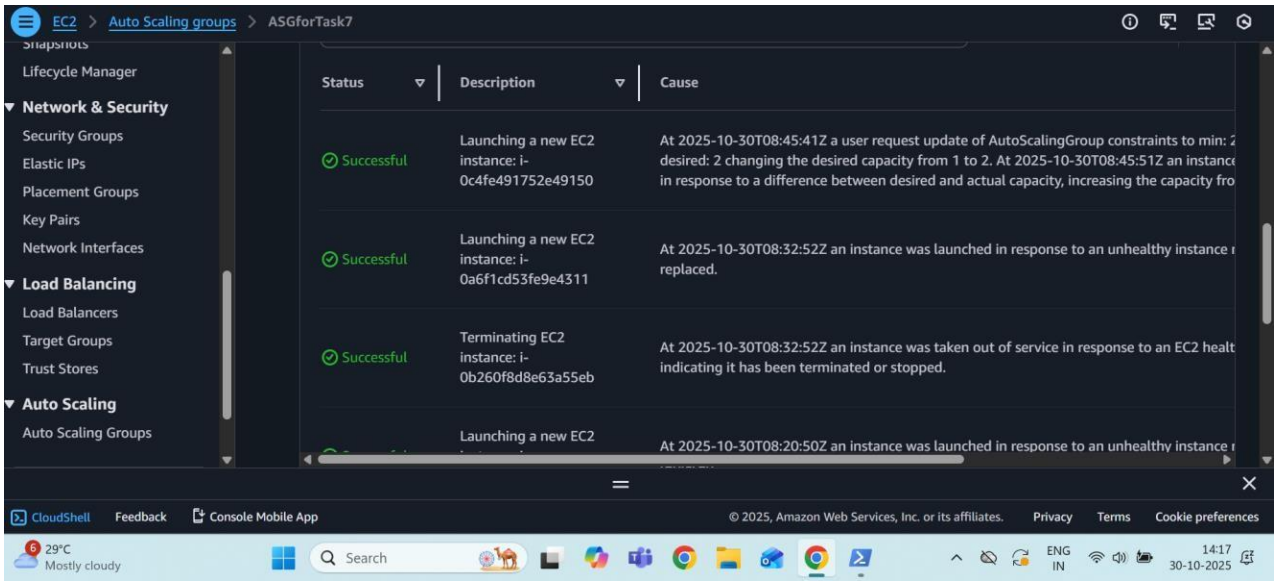


7. EC2 Instances list (Launched by ASG)

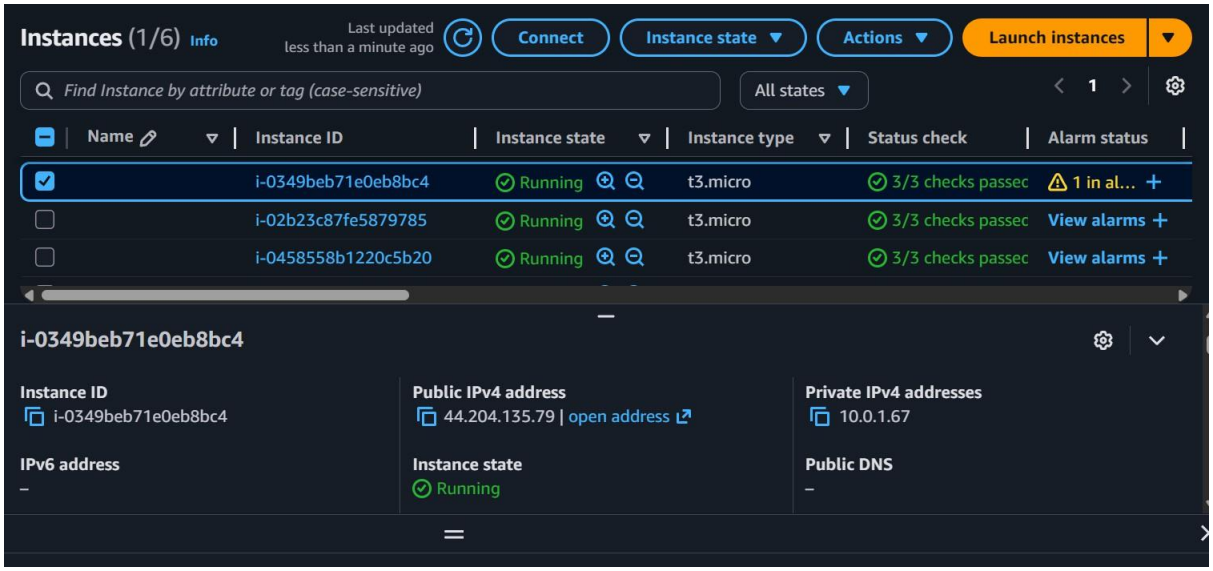


8. ASG Activity





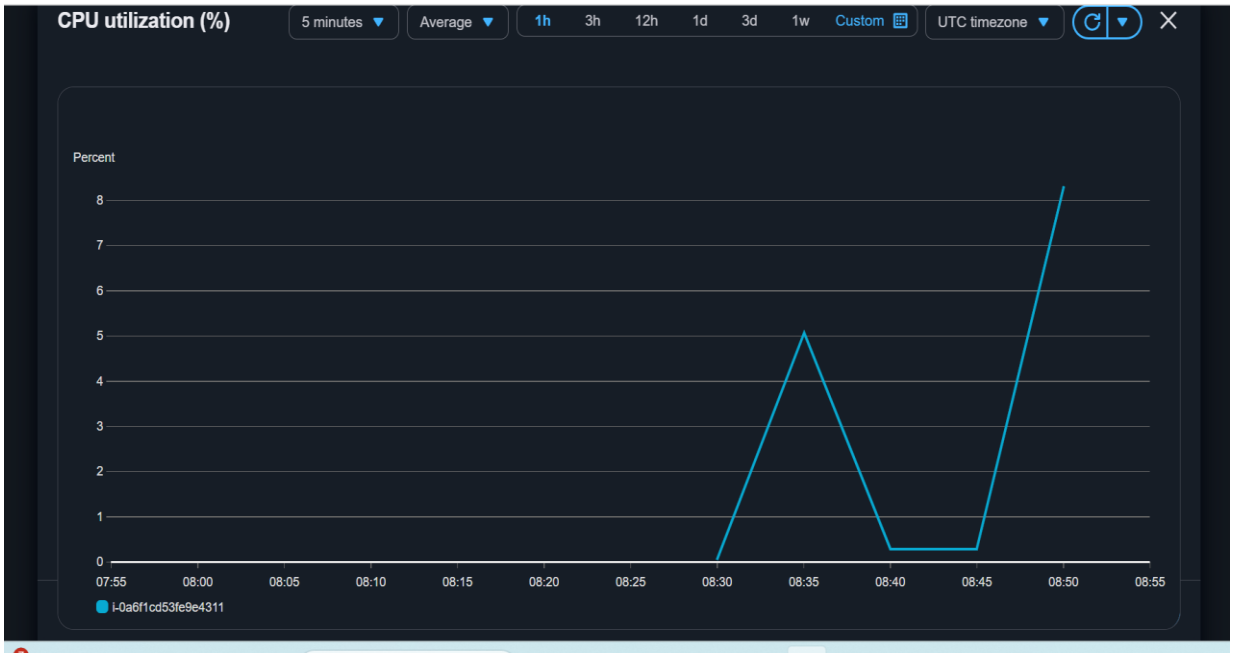
9. EC2 Instances list (during scale-out)



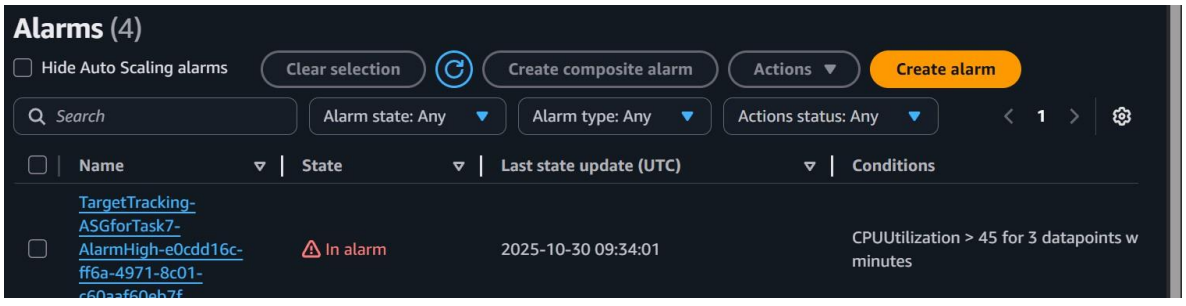
CPU Utilization Increased using dd if=/dev/zero of=dev/null &

```
[ec2-user@ip-10-0-1-67 ~]$ dd if=/dev/zero of=/dev/null &
[1] 25690
[ec2-user@ip-10-0-1-67 ~]$ top
top - 09:35:30 up 14 min,  1 user,  load average: 1.00, 0.98, 0.64
Tasks: 106 total,   2 running, 104 sleeping,   0 stopped,   0 zombie
%Cpu(s): 29.0 us, 20.5 sy,  0.0 ni, 49.8 id,  0.0 wa,  0.0 hi,  0.5 si,  0.3 st
MiB Mem :    904.8 total,    363.1 free,    197.9 used,    343.8 buff/cache
MiB Swap:      0.0 total,      0.0 free,      0.0 used.    571.3 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
  25690 ec2-user  20   0  221412   1008    916 R  99.3   0.1  11:40.14 dd
  26239 ec2-user  20   0  224024   3484   2812 R   0.3   0.4   0:00.05 top
      1 root      20   0  107176  17628  10760 S   0.0   1.9   0:01.53 systemd
      2 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kthreadd
      3 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_gp
      4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_par_gp
      5 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 slub_flushwq
      6 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 netns
      8 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
      9 root      20   0       0      0      0 I   0.0   0.0   0:00.03 kworker/u4:0-events_unbound
     10 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_percpu_wq
     11 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_kthread
```



In Alarm condition



10. ASG Activity tab (scale-in event)

After killing the cpu utilization dropped and asg terminated extra launched instances