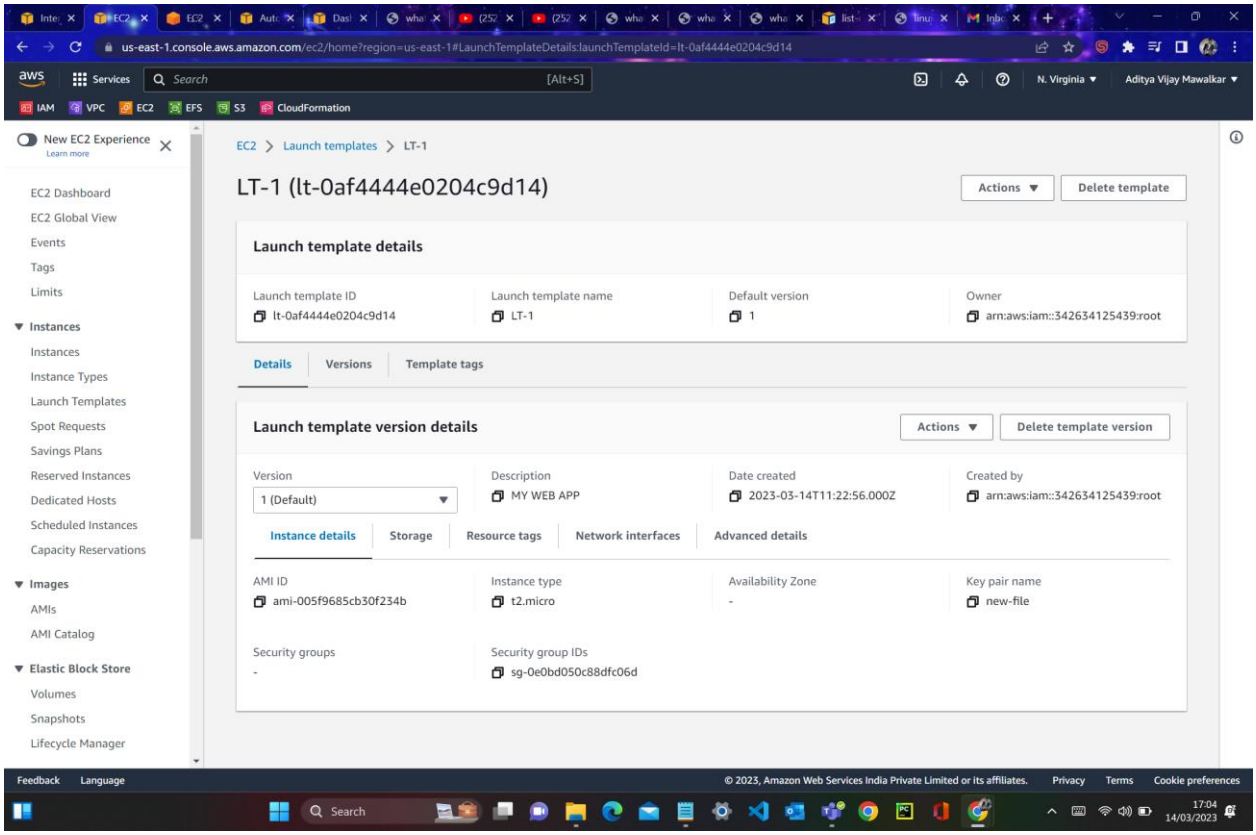
AUTOSCALLING

- Autoscaling- in this task first enable automatic subnet association in subnets
- create an ec2 with httpd in it and check the status
- Once it shows active then create an image (AMI) out of that instance and create a CloudFormation Template after these steps go to Autoscaling and create LaunchConfig
- Select the AMI which you created and then create Autoscaling Groups.
- Your machines will start getting added and you put the load on the machines by using (dd if=/dev/zero of=/dev/null)
- now check the CPU graph as soon as it crosses 50% usage then the new machine will get created automatically.


us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchTemplateDetails:launchTemplateId=lt-0af4444e0204c9d14
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EC2 > Launch templates > LT-1
LT-1 (lt-0af4444e0204c9d14)
Actions
Delete template
Launch template details
Launch template ID
lt-0af4444e0204c9d14
Launch template name
LT-1
Default version
1
Owner
arn:aws:iam::342634125439:root
Details
Versions
Template tags
Launch template version details
Actions
Delete template version
Version
1 (Default)
Description
MY WEB APP
Date created
2023-03-14T11:22:56.000Z
Created by
arn:aws:iam::342634125439:root
Instance details
Storage
Resource tags
Network interfaces
Advanced details
AMI ID
ami-005f9685cb30f234b
Instance type
t2.micro
Availability Zone
-
Key pair name
new-file
Security groups
-
Security group IDs
sg-0e0bd050c88dfc06d
Feedback
Language
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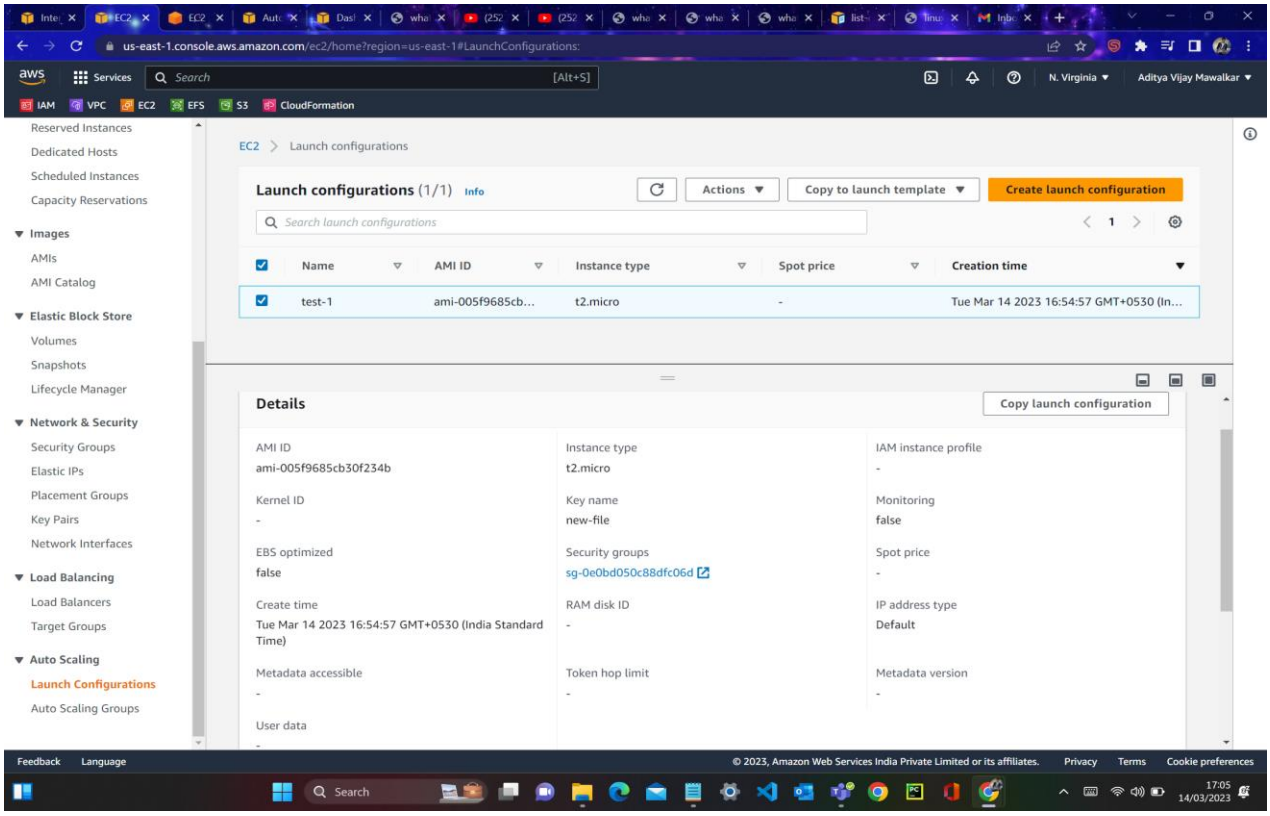
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchConfigurations:
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Target Groups
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Auto Scaling Groups
EC2 > Launch configurations
Launch configurations (1/1)
Info
Actions
Copy to launch template
Create launch configuration
Search launch configurations
Name
AMI ID
Instance type
Spot price
Creation time
test-1
ami-005f9685cb...
t2.micro
-
Tue Mar 14 2023 16:54:57 GMT+0530 (In...
Details
Copy launch configuration
AMI ID
ami-005f9685cb30f234b
Instance type
t2.micro
IAM instance profile
-
Kernel ID
-
Key name
new-file
Monitoring
false
EBS optimized
false
Security groups
sg-0e0bd050c88dfc06d
Spot price
-
Create time
Tue Mar 14 2023 16:54:57 GMT+0530 (India Standard Time)
RAM disk ID
-
IP address type
Default
Metadata accessible
-
Token hop limit
-
Metadata version
-
User data
-
Feedback
Language
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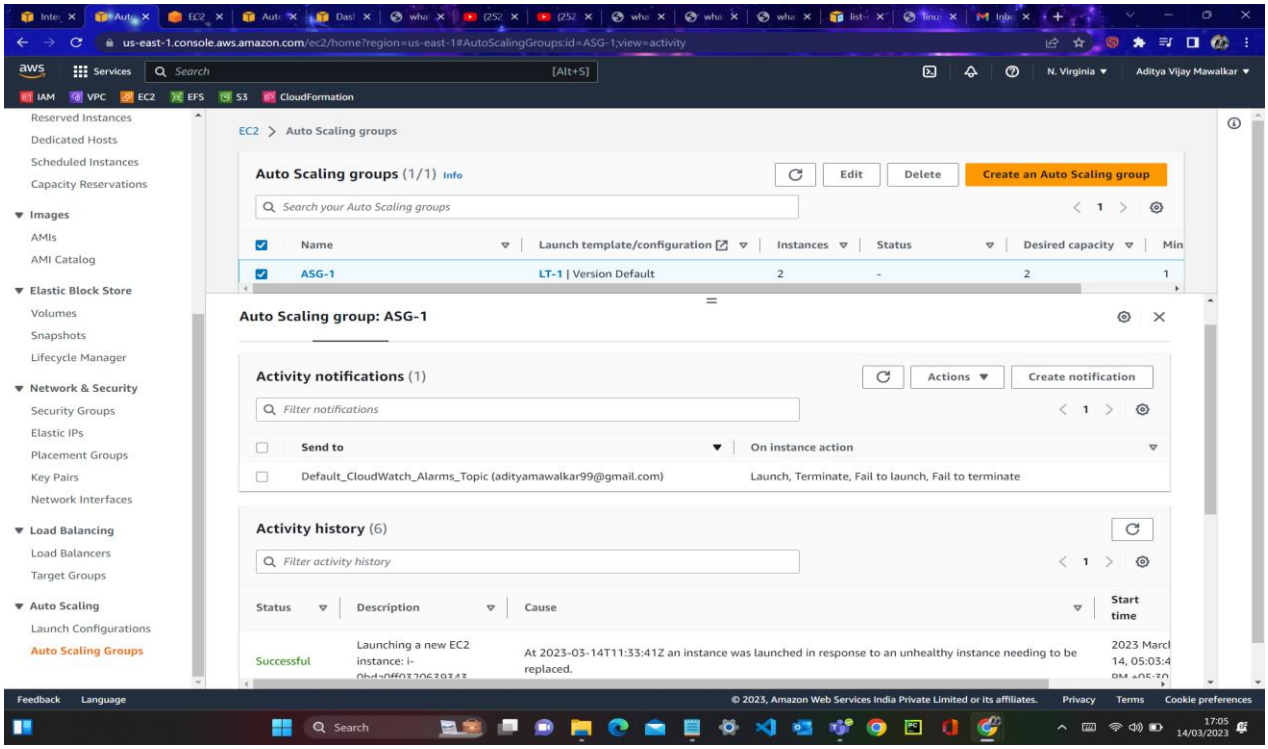
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AutoScalingGroups:id=ASG-1;view=activity
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Auto Scaling Groups
EC2 > Auto Scaling groups
Auto Scaling groups (1/1) Info
Edit
Delete
Create an Auto Scaling group
Search your Auto Scaling groups
Name
Launch template/configuration
Instances
Status
Desired capacity
ASG-1
LT-1 | Version Default
2
-
2
1
Auto Scaling group: ASG-1
Activity notifications (1)
Actions
Create notification
Filter notifications
Send to
On instance action
Default_CloudWatch_Alarms_Topic (adityamawalkar99@gmail.com)
Launch, Terminate, Fail to launch, Fail to terminate
Activity history (6)
Filter activity history
Status
Description
Cause
Start time
Successful
Launching a new EC2 instance: i-
At 2023-03-14T11:33:41Z an instance was launched in response to an unhealthy instance needing to be replaced.
Feedback
Language
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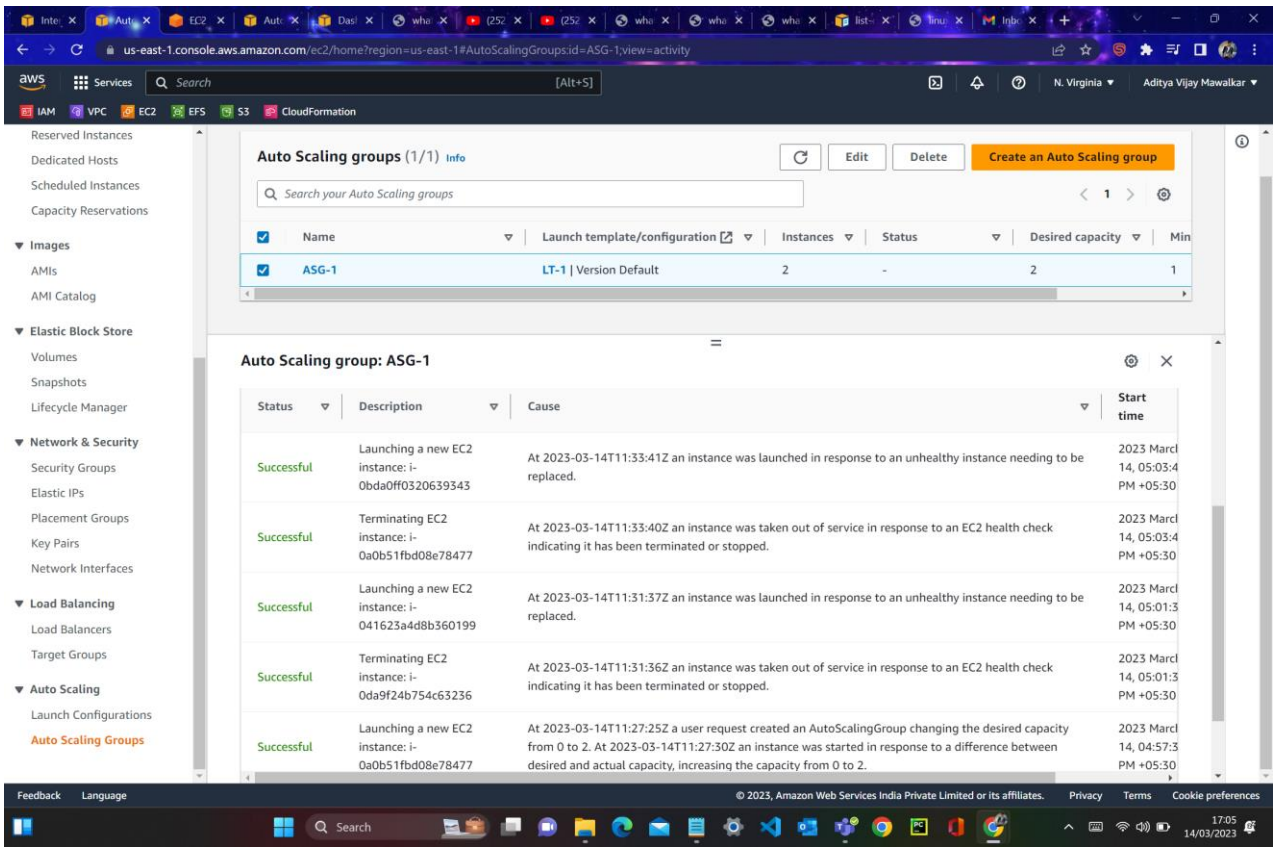
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AutoScalingGroups:id=ASG-1;view=activity
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Auto Scaling groups (1/1) Info
Edit
Delete
Create an Auto Scaling group
Search your Auto Scaling groups
Name
Launch template/configuration
Instances
Status
Desired capacity
ASG-1
LT-1 | Version Default
2
-
2
1
Auto Scaling group: ASG-1
Status
Description
Cause
Start time
Successful
Launching a new EC2 instance: i-0bda0ff0320639343
At 2023-03-14T11:33:41Z an instance was launched in response to an unhealthy instance needing to be replaced.
2023 March 14, 05:03:4 PM +05:30
Successful
Terminating EC2 instance: i-0a0b51fbd08e78477
At 2023-03-14T11:33:40Z an instance was taken out of service in response to an EC2 health check indicating it has been terminated or stopped.
2023 March 14, 05:03:4 PM +05:30
Successful
Launching a new EC2 instance: i-041623a4d8b360199
At 2023-03-14T11:31:37Z an instance was launched in response to an unhealthy instance needing to be replaced.
2023 March 14, 05:01:3 PM +05:30
Successful
Terminating EC2 instance: i-0da9f24b754c63236
At 2023-03-14T11:31:36Z an instance was taken out of service in response to an EC2 health check indicating it has been terminated or stopped.
2023 March 14, 05:01:3 PM +05:30
Successful
Launching a new EC2 instance: i-0a0b51fbd08e78477
At 2023-03-14T11:27:25Z a user request created an AutoScalingGroup changing the desired capacity from 0 to 2. At 2023-03-14T11:27:30Z an instance was started in response to a difference between desired and actual capacity, increasing the capacity from 0 to 2.
2023 March 14, 04:57:3 PM +05:30
Feedback
Language
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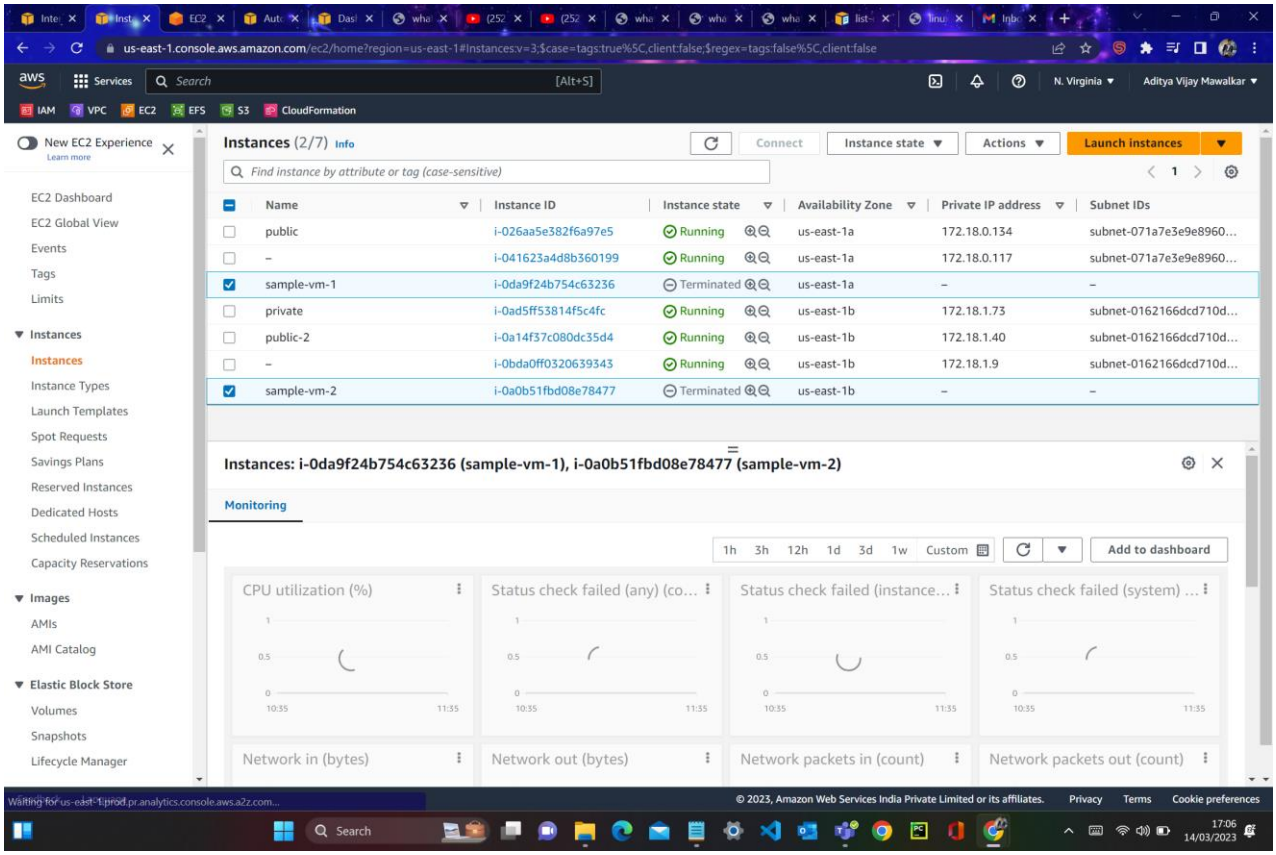
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false
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Instance state
Actions
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Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Availability Zone
Private IP address
Subnet IDs
public
i-026aa5e382f6a97e5
Running
us-east-1a
172.18.0.134
subnet-071a7e3e9e8960...
–
i-041623a4d8b360199
Running
us-east-1a
172.18.0.117
subnet-071a7e3e9e8960...
sample-vm-1
i-0da9f24b754c63236
Terminated
us-east-1a
–
–
private
i-0ad5ff53814f5c4fc
Running
us-east-1b
172.18.1.73
subnet-0162166dcd710d...
public-2
i-0a14f37c080dc35d4
Running
us-east-1b
172.18.1.40
subnet-0162166dcd710d...
–
i-0bda0ff0320639343
Running
us-east-1b
172.18.1.9
subnet-0162166dcd710d...
sample-vm-2
i-0a0b51fbd08e78477
Terminated
us-east-1b
–
–
Instances: i-0da9f24b754c63236 (sample-vm-1), i-0a0b51fbd08e78477 (sample-vm-2)
Monitoring
1h
3h
12h
1d
3d
1w
Custom
Add to dashboard
CPU utilization (%)
Status check failed (any) (co...
Status check failed (instance...
Status check failed (system) ...
Network in (bytes)
Network out (bytes)
Network packets in (count)
Network packets out (count)
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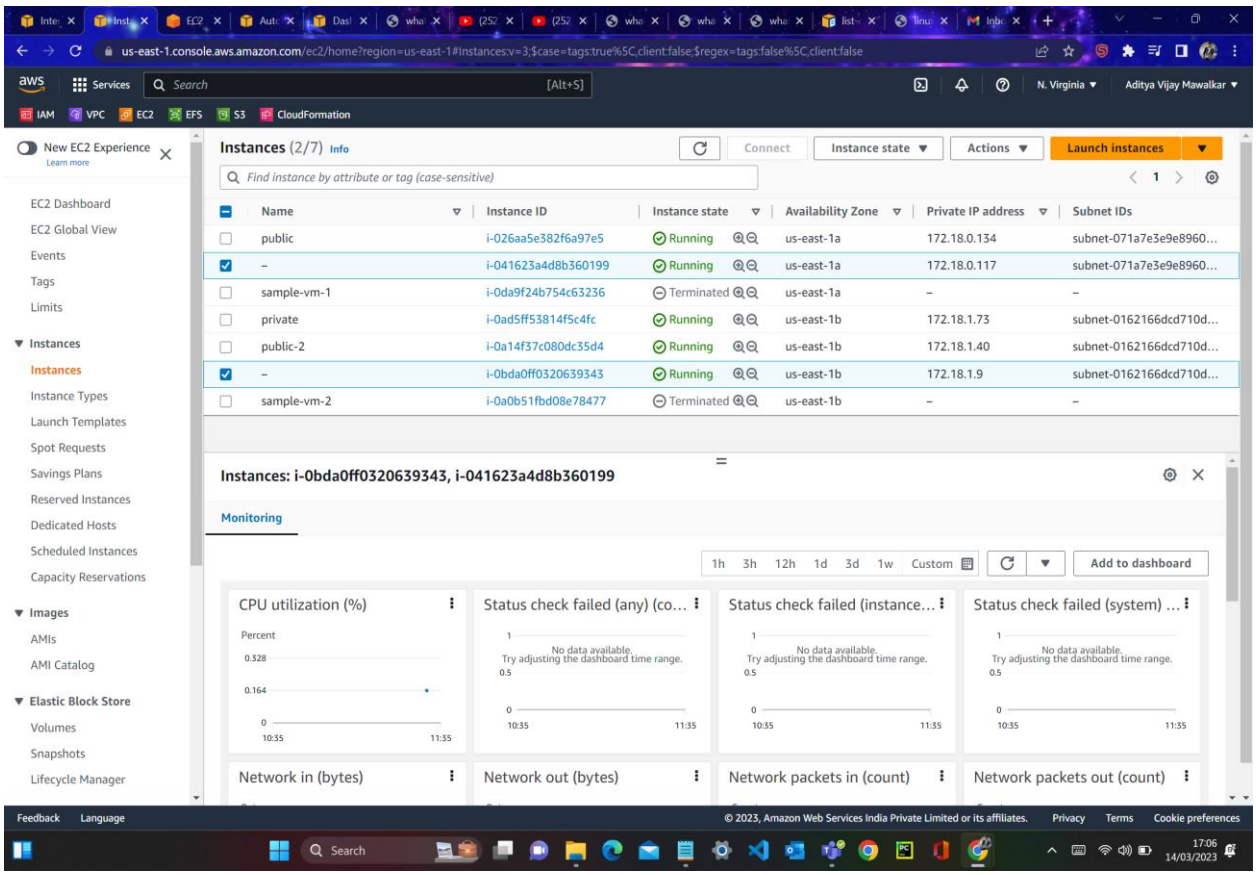
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false
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Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Availability Zone
Private IP address
Subnet IDs
public
i-026aa5e382f6a97e5
Running
us-east-1a
172.18.0.134
subnet-071a7e3e9e8960...
–
i-041623a4d8b360199
Running
us-east-1a
172.18.0.117
subnet-071a7e3e9e8960...
sample-vm-1
i-0da9f24b754c63236
Terminated
us-east-1a
–
–
private
i-0ad5ff53814f5c4fc
Running
us-east-1b
172.18.1.73
subnet-0162166dcd710d...
public-2
i-0a14f37c080dc35d4
Running
us-east-1b
172.18.1.40
subnet-0162166dcd710d...
–
i-0bda0ff0320639343
Running
us-east-1b
172.18.1.9
subnet-0162166dcd710d...
sample-vm-2
i-0a0b51fbd08e78477
Terminated
us-east-1b
–
–
Instances: i-0bda0ff0320639343, i-041623a4d8b360199
Monitoring
1h
3h
12h
1d
3d
1w
Custom
Add to dashboard
CPU utilization (%)
Percent
0.328
0.164
0
10:35
11:35
Status check failed (any) (co...
Status check failed (instance...
Status check failed (system) ...
No data available.
Try adjusting the dashboard time range.
Network in (bytes)
Network out (bytes)
Network packets in (count)
Network packets out (count)
Feedback
Language
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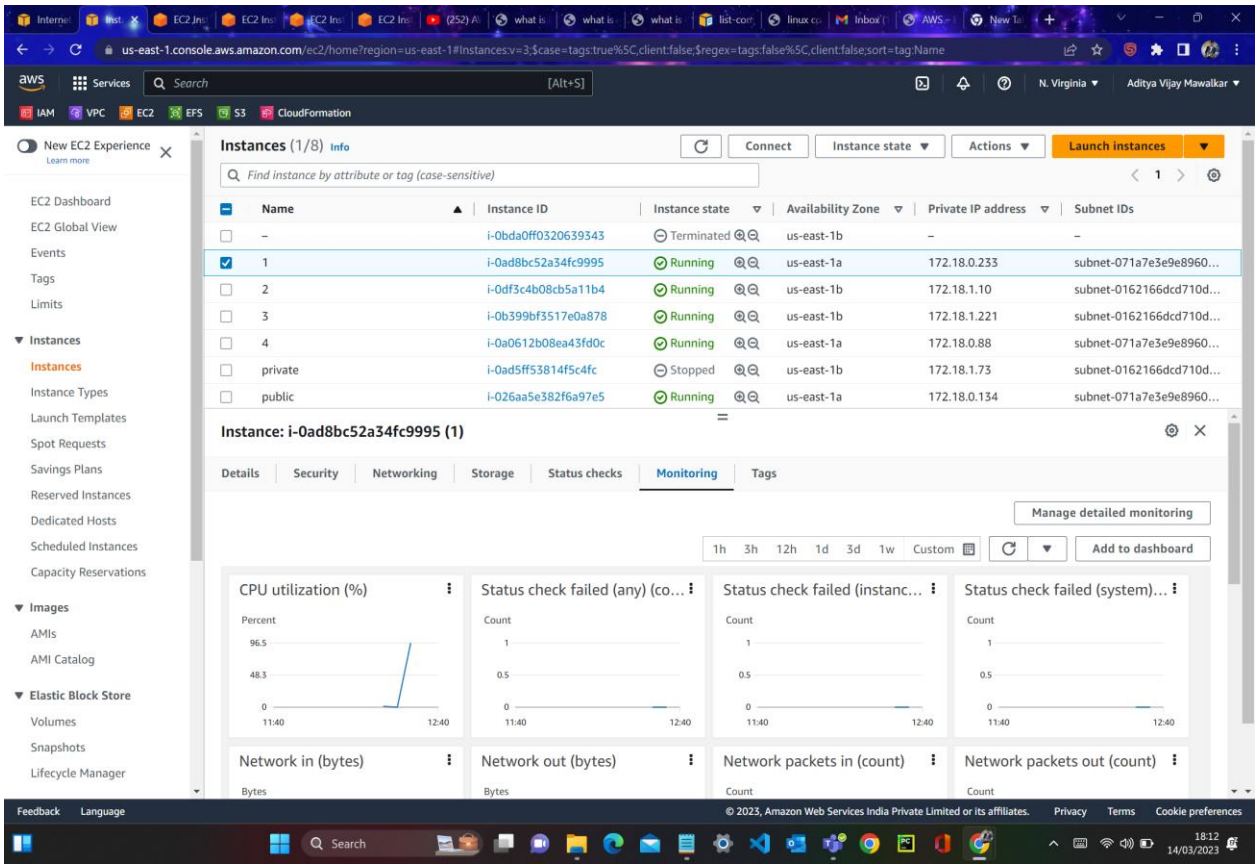
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false;sort=tag:Name
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Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Availability Zone
Private IP address
Subnet IDs
– i-0bda0ff0320639343 Terminated us-east-1b – –
1 i-0ad8bc52a34fc9995 Running us-east-1a 172.18.0.233 subnet-071a7e3e9e8960...
2 i-0df3c4b08cb5a11b4 Running us-east-1b 172.18.1.10 subnet-0162166dcd710d...
3 i-0b399bf3517e0a878 Running us-east-1b 172.18.1.221 subnet-0162166dcd710d...
4 i-0a0612b08ea43fd0c Running us-east-1a 172.18.0.88 subnet-071a7e3e9e8960...
private i-0ad5ff53814f5c4fc Stopped us-east-1b 172.18.1.73 subnet-0162166dcd710d...
public i-026aa5e382f6a97e5 Running us-east-1a 172.18.0.134 subnet-071a7e3e9e8960...
Instance: i-0ad8bc52a34fc9995 (1)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Manage detailed monitoring
1h 3h 12h 1d 3d 1w Custom
Add to dashboard
CPU utilization (%)
Percent
96.5
48.3
0
11:40
12:40
Status check failed (any) (co...
Count
Status check failed (instanc...
Status check failed (system)...
Network in (bytes)
Bytes
Network out (bytes)
Network packets in (count)
Network packets out (count)
Feedback
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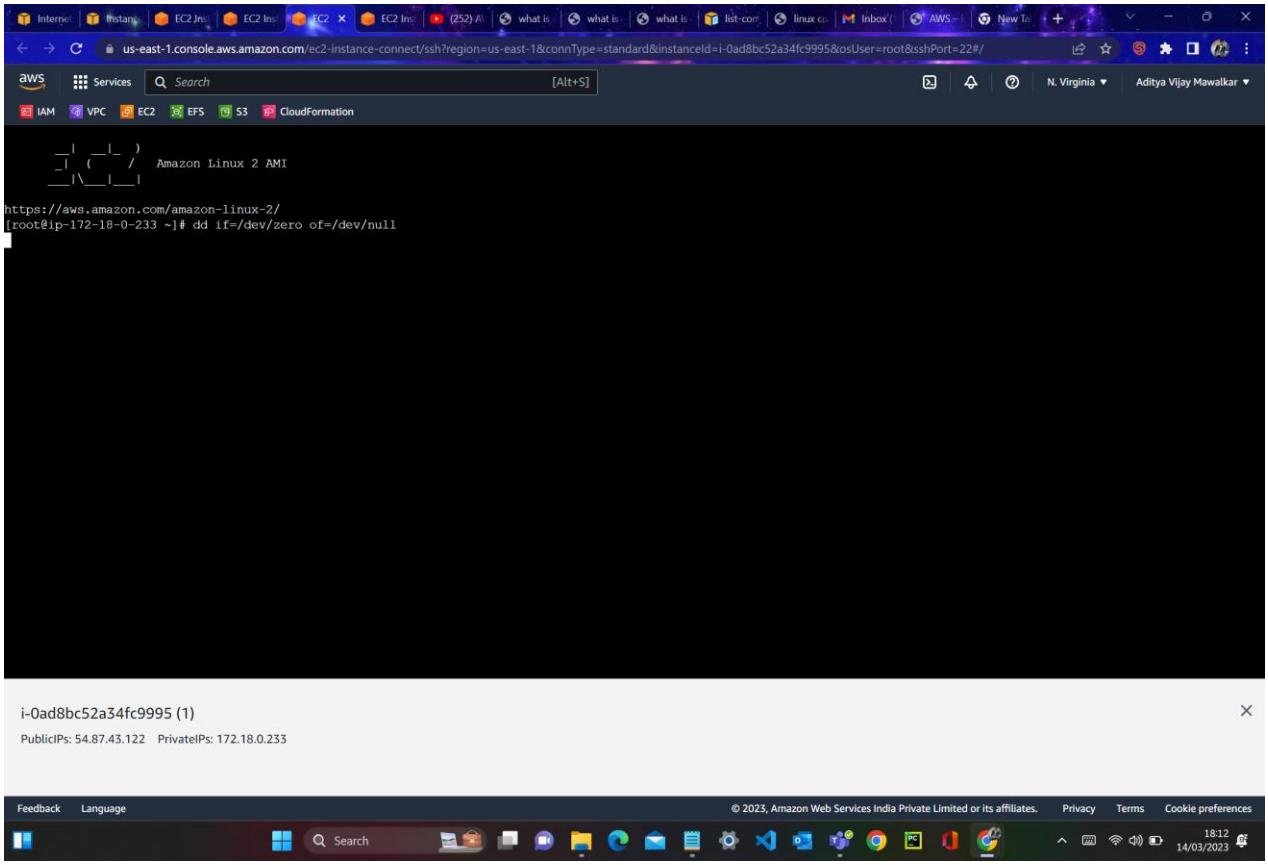
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0ad8bc52a34fc9995&osUser=root&sshPort=22#/
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Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[root@ip-172-18-0-233 ~]# dd if=/dev/zero of=/dev/null
i-0ad8bc52a34fc9995 (1)
PublicIPs: 54.87.43.122 PrivateIPs: 172.18.0.233
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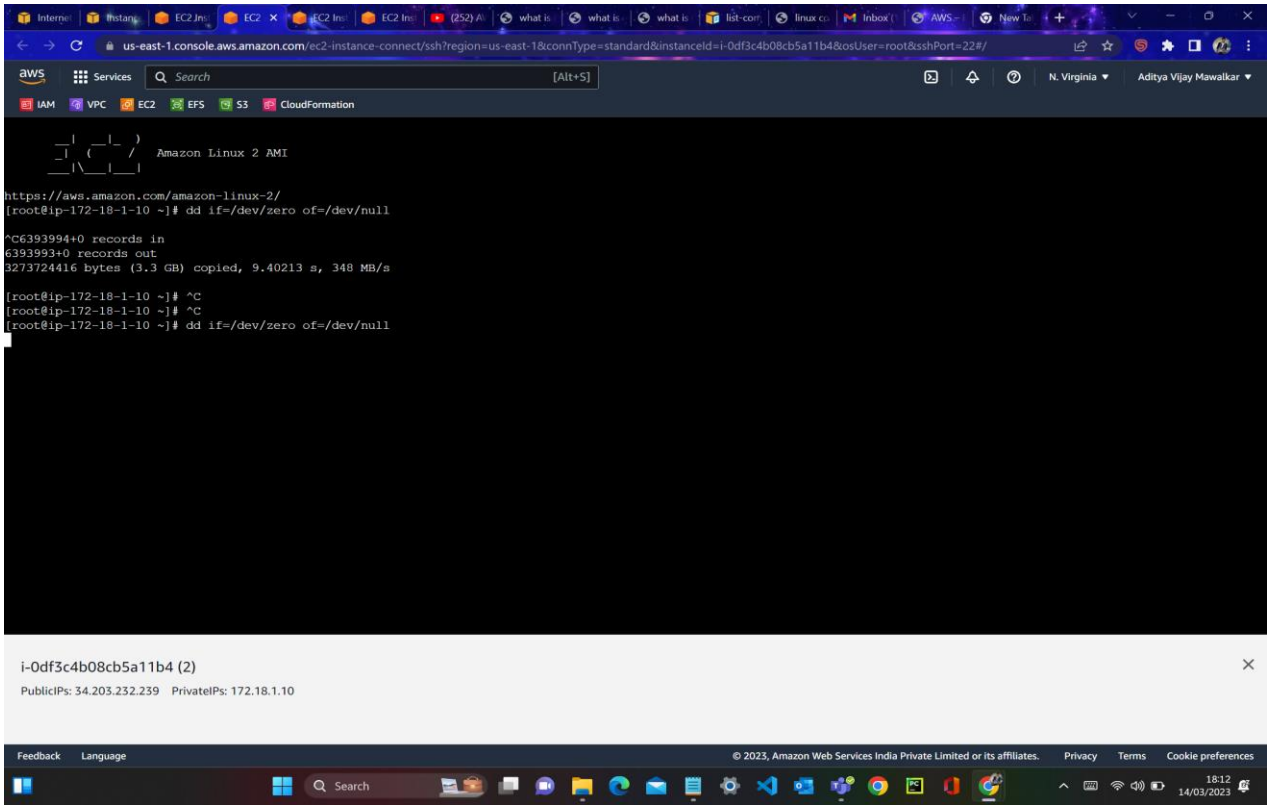
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0df3c4b08cb5a11b4&osUser=root&sshPort=22#/
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https://aws.amazon.com/amazon-linux-2/
[root@ip-172-18-1-10 ~]# dd if=/dev/zero of=/dev/null
^C6393994+0 records in
6393993+0 records out
3273724416 bytes (3.3 GB) copied, 9.40213 s, 348 MB/s
[root@ip-172-18-1-10 ~]# ^C
[root@ip-172-18-1-10 ~]# ^C
[root@ip-172-18-1-10 ~]# dd if=/dev/zero of=/dev/null
i-0df3c4b08cb5a11b4 (2)
PublicIPs: 34.203.232.239 PrivateIPs: 172.18.1.10
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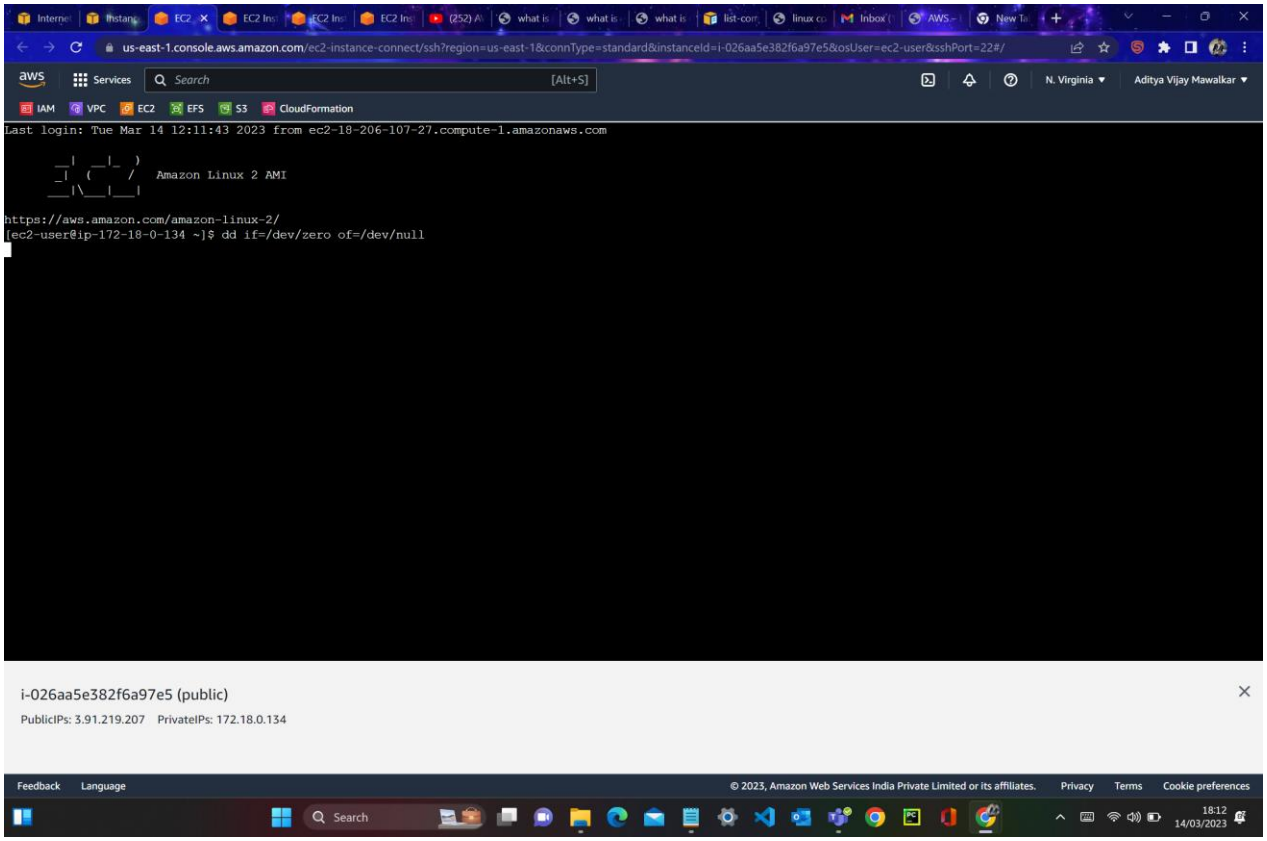
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-026aa5e382f6a97e5&osUser=ec2-user&sshPort=22#/
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CloudFormation
Last login: Tue Mar 14 12:11:43 2023 from ec2-18-206-107-27.compute-1.amazonaws.com
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-18-0-134 ~]$ dd if=/dev/zero of=/dev/null
i-026aa5e382f6a97e5 (public)
PublicIPs: 3.91.219.207 PrivateIPs: 172.18.0.134
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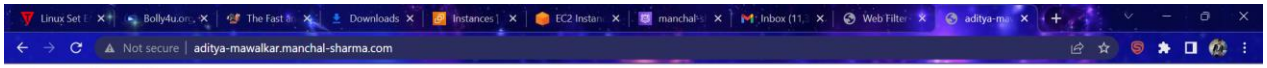

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