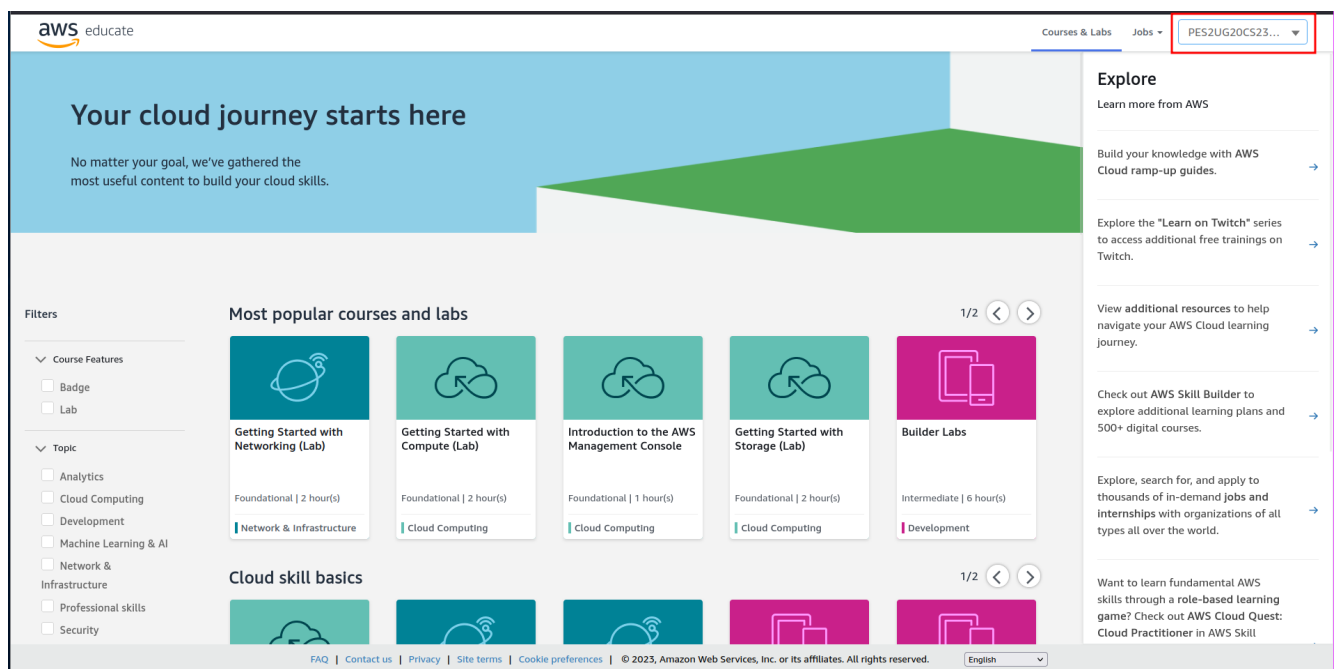


Cloud Computing Lab-1

Details :

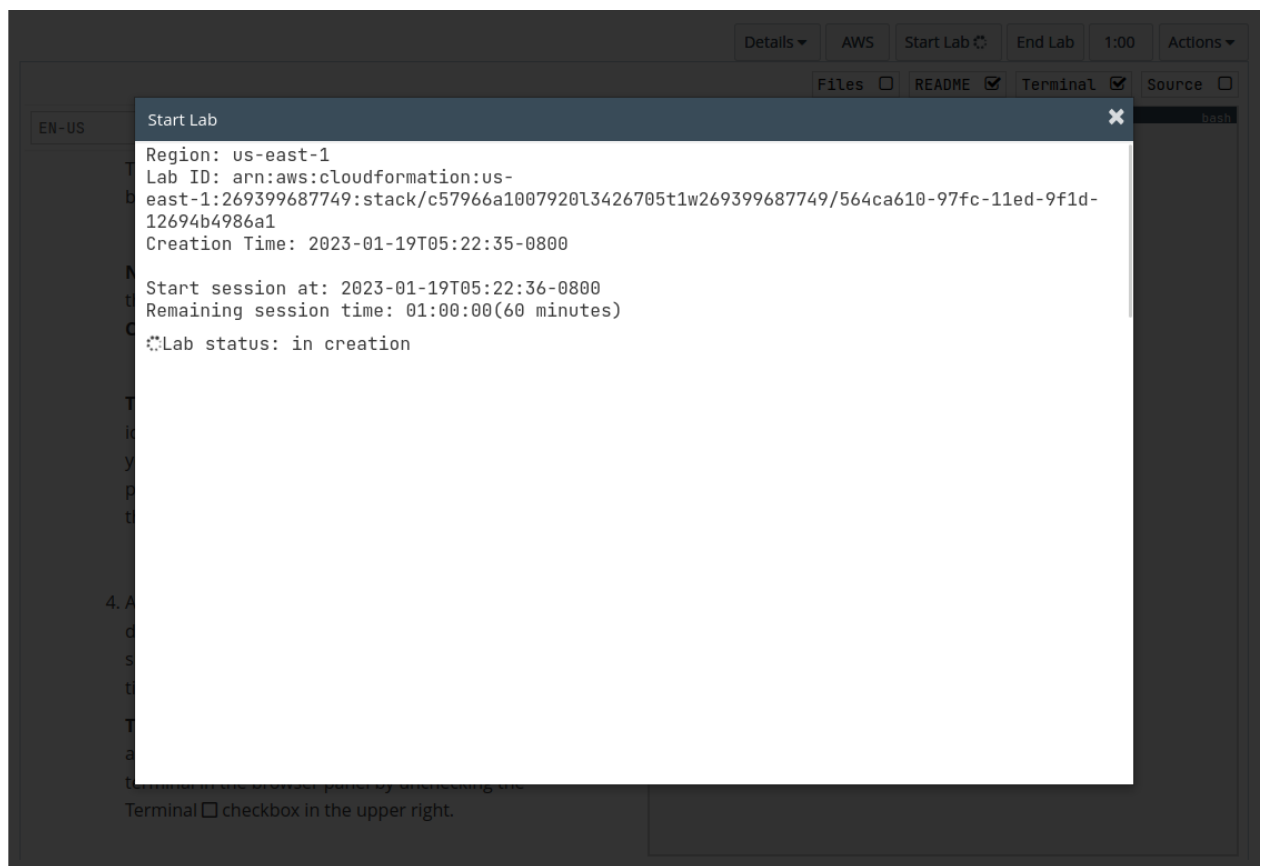
- SRN : PES2UG20CS237
- Name : P K Navin Shrinivas
- Section : D

Step-1 : Create account



Step-2 : Create EC2 Instance

- Starting lab :



- Summary before launching instance :

▼ Summary

Number of instances [Info](#)

1

↑

↓

Software Image (AMI)

Microsoft Windows Server 2019 ...[read more](#)

ami-0c4cc0a40dd47b942

Virtual server type (Instance type)

t2.micro

Firewall (security group)

New security group

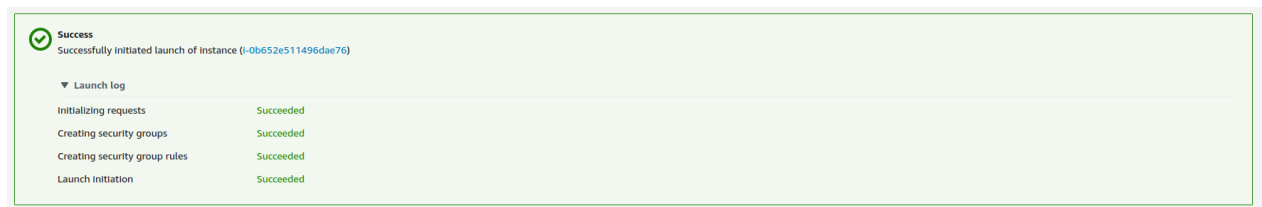
Storage (volumes)

1 volume(s) - 30 GiB

Cancel

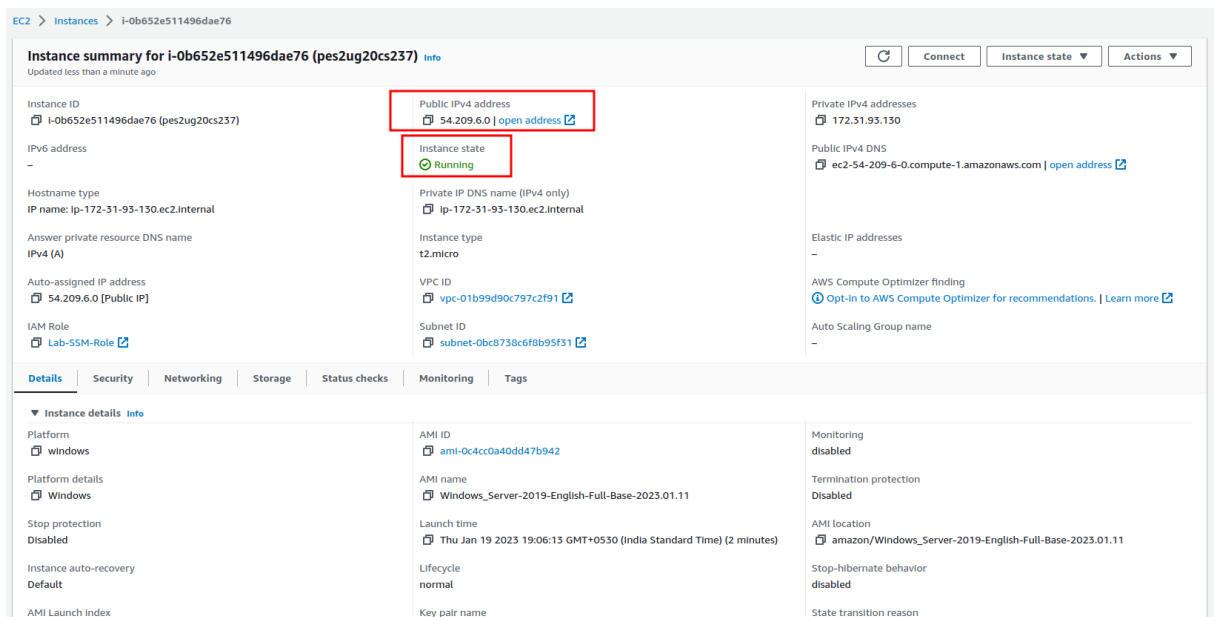
Launch instance

- Success image after deployment :



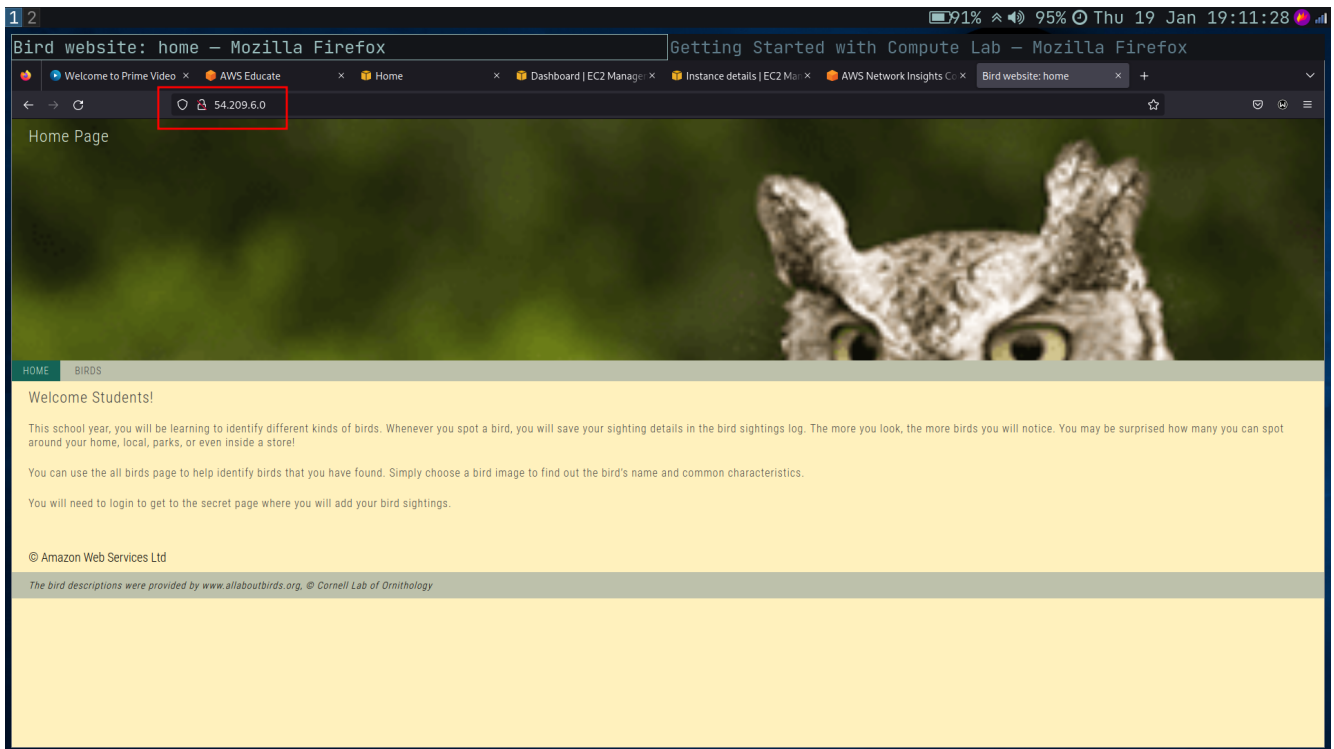
- EC2 instance details in running state :

Note the IP address instance name and it's size "t2.micro"



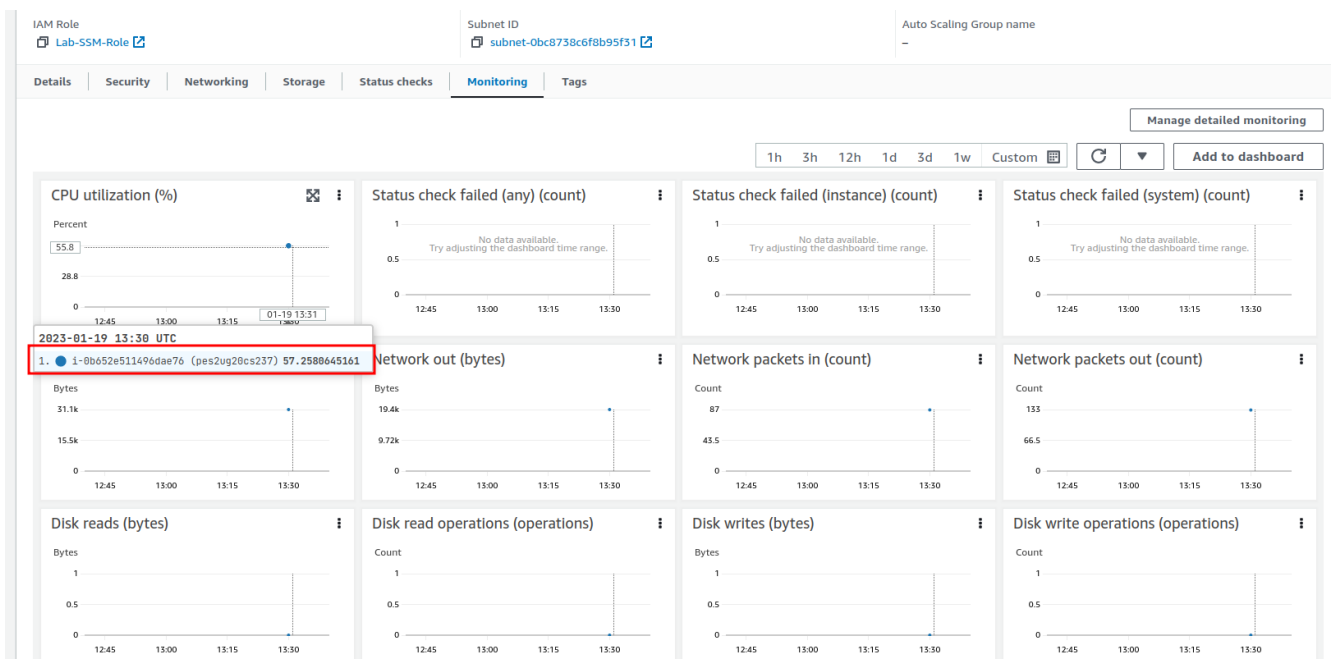
- Opening up the ip address (in non secure http)

Note : During creation of instance, all inbound rules were accepted. Hence without any changes to network config after deployment, the website works!



• Monitoring :

AWS in free tier gives 5 minute granularity monitoring.



• Logs and Screenshots of the instance

Note : these data can be captured from the AWS console itself.

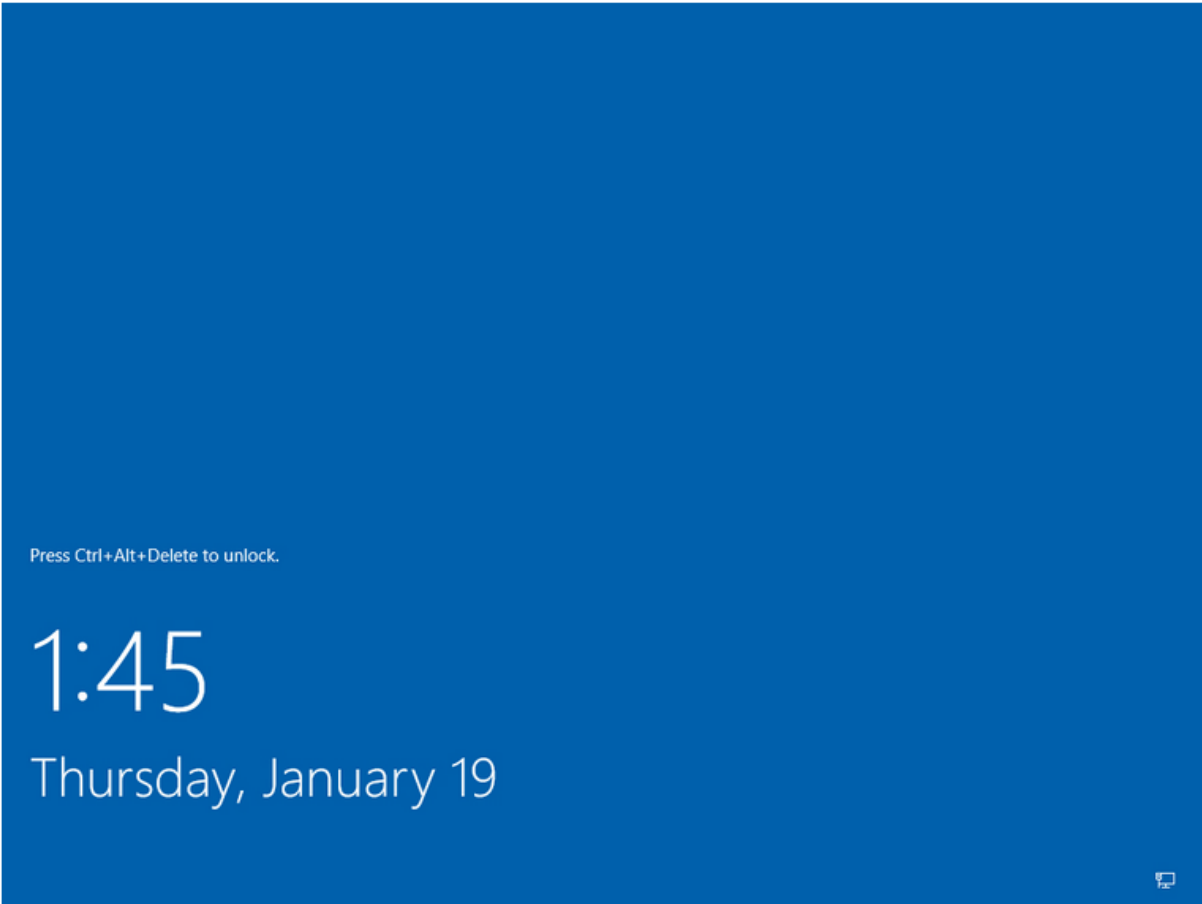
System log

Review system log for instance i-0b652e511496dae76 as of Thu Jan 19 2023 19:15:23 GMT+0530 (India Standard Time)

2023/01/19 13:37:37Z: Windows sysprep configuration complete.
2023/01/19 13:37:40Z: Message: Waiting for meta-data accessibility...
2023/01/19 13:37:40Z: Message: Meta-data is now available.
2023/01/19 13:37:42Z: AMI Origin Version: 2023.01.11
2023/01/19 13:37:42Z: AMI Origin Name: Windows_Server-2019-English-Full-Base
2023/01/19 13:37:42Z: OS: Microsoft Windows NT 10.0
2023/01/19 13:37:42Z: OsProductName: Windows Server 2019 Datacenter
2023/01/19 13:37:42Z: OsInstallationOption: Full
2023/01/19 13:37:42Z: OsVersion: 10.0
2023/01/19 13:37:42Z: OsBuildLabEx: 17763.1.amd64fre.rs5_release.180914-1434
2023/01/19 13:37:42Z: OsCurrentBuild: 17763
2023/01/19 13:37:42Z: OsReleaseId: 1809
2023/01/19 13:37:42Z: Language: en-US
2023/01/19 13:37:42Z: TimeZone: Coordinated Universal Time
2023/01/19 13:37:42Z: Offset: UTC 00:00:00
2023/01/19 13:37:42Z: AMI-ID: ami-0c4cc0a40dd47b942
2023/01/19 13:37:42Z: Instance-ID: i-0b652e511496dae76
2023/01/19 13:37:42Z: Instance Type: t2.micro
2023/01/19 13:37:45Z: Driver: AWS PV Driver Package v8.4.2
2023/01/19 13:37:46Z: Launch: EC2 Launch v1.3.2003975

Instance screenshot

i-0b652e511496dae76 (pes2ug20cs237) on 2023-01-19 at T19:16:22.651 +05:30



- Remote desktop :

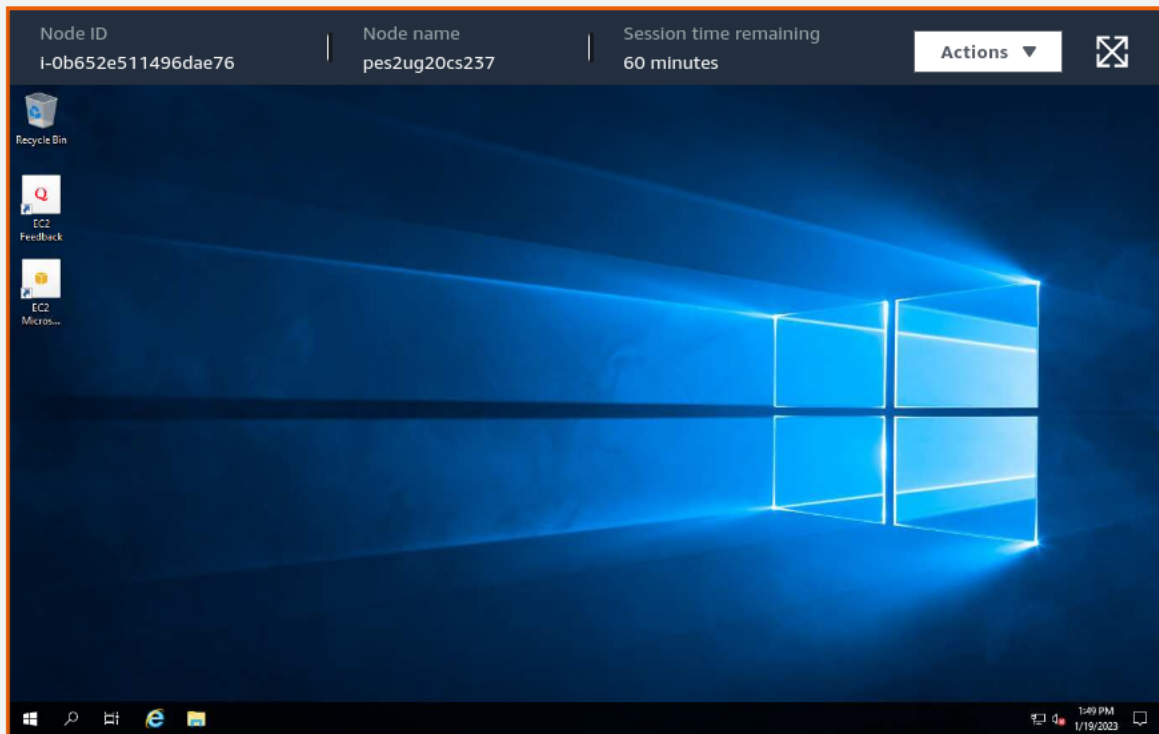
The user using the IAM group's given during deployment can remote into the instance through the web console using a tool called "Fleet manager"

Fleet Manager - Remote Desktop

You can connect to a maximum of 4 nodes in this view.

All sessions

i-0b652e511496dae76



- Stopping the instance for resizing

Instances (2) Info										
Find instance by attribute or tag (case-sensitive)										
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input type="checkbox"/>	pes2ug20cs237	i-0b652e511496dae76	Stopped	t2.nano	-	No alarms	us-east-1b	-	-	-
<input type="checkbox"/>	pes2ug20cs237	i-0ba1d74d525d7ccad	Terminated	t2.micro	-	No alarms	us-east-1e	-	-	-

- The instance after resizing

Note : Do observe that the **t2.micro** has now been changed to **t2.nano**. The instance IP address and name remains the same.

Instance summary for i-0b652e511496dae76 (pes2ug20cs237) [Info](#)

Updated less than a minute ago

Refresh

Connect

Instance state ▼

Actions ▼

Instance ID

i-0b652e511496dae76 (pes2ug20cs237)

IPv6 address

–

Hostname type

IP name: ip-172-31-93-130.ec2.internal

Answer private resource DNS name

IPv4 (A)

Auto-assigned IP address

54.227.172.38 [Public IP]

IAM Role

Lab-SSM-Role

Public IPv4 address

54.227.172.38 | [open address](#)

Instance state

Running

Private IP DNS name (IPv4 only)

ip-172-31-93-130.ec2.internal

Instance type

t2.nano

VPC ID

vpc-01b99d90c797c2f91

Subnet ID

subnet-0bc8738c6f8b95f31

Private IPv4 addresses

172.31.93.130

Public IPv4 DNS

ec2-54-227-172-38.compute-1.amazonaws.com | [open address](#)

Elastic IP addresses

–

AWS Compute Optimizer finding

[Opt-in to AWS Compute Optimizer for recommendations.](#) | [Learn more](#)

Auto Scaling Group name

–

DetailsSecurityNetworkingStorageStatus checksMonitoringTags

▼ Instance details [Info](#)

Platform

windows

Platform details

Windows

Stop protection

Disabled

Instance auto-recovery

Default

AMI ID

ami-0c4cc0a40dd47b942

AMI name

Windows_Server-2019-English-Full-Base-2023.01.11

Launch time

Thu Jan 19 2023 19:21:19 GMT+0530 (India Standard Time) (less than a minute)

Lifecycle

normal

Monitoring

disabled

Termination protection

Disabled

AMI location

amazon/Windows_Server-2019-English-Full-Base-2023.01.11

Stop-hibernate behavior

disabled