

# CLOUD COMPUTING LAB-1

## INTRODUCTION TO AWS EC2

**NAME: SAHANA RAO**

**SRN: PES1UG20CS588**

**SECTION: J**

### 1.Summary of instance before launching

**Summary**

Number of instances: 1

**Software Image (AMI)**  
Amazon Linux 2 Kernel 5.10 AMI...  
ami-0b5eea76982371e91

**Virtual server type (instance type)**  
t2.micro

**Firewall (security group)**  
New security group

**Storage (volumes)**  
1 volume(s) - 8 GiB

**User data**

```
#!/bin/bash
yum -y install httpd
systemctl enable httpd
systemctl start httpd
echo '<html><h1>Hello From Your Web Server!</h1></html>' > /var/www/html/index.html
```

☐ User data has already been base64 encoded

**Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage.

[Cancel](#) [Launch instance](#)

### 2.EC2 instance in running state

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 D
PES1UG20CS588	i-06dd382af5519e020	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-44-212-3

Instance: i-06dd382af5519e020 (PES1UG20CS588)		
Details	Security	Networking
<b>Instance summary</b> Instance ID: i-06dd382af5519e020 (PES1UG20CS588) IPv6 address: - Hostname type: IP name: ip-10-0-1-38.ec2.internal Answer private resource DNS name: IPv4 (A) Auto-assigned IP address	Public IPv4 address: 44.212.36.219   <a href="#">open address</a> Instance state: Running Private IP DNS name (IPv4 only): ip-10-0-1-38.ec2.internal Instance type: t2.micro VPC ID	Private IPv4 addresses: 10.0.1.38 Public IPv4 DNS: ec2-44-212-36-219.compute-1.amazonaws.com   <a href="#">open address</a> Elastic IP addresses: - AWS Compute Optimizer finding

arch [Alt+S] N. Virginia voclabs/user2357153=PES1UG20CS588\_SAHANA\_RAO @ 7606-9169-8623

Instances (1/1) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 D
PES1UG20CS588	i-06dd382af5519e020	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-44-212-3

Instance: i-06dd382af5519e020 (PES1UG20CS588)

Details Security Networking Storage Status checks Monitoring Tags

Status checks Info

Status checks detect problems that may impair i-06dd382af5519e020 (PES1UG20CS588) from running your applications.

System status checks

Instance status checks

System reachability check passed

Instance reachability check passed

Report the instance status if our checks do not reflect your experience with this instance or if they do not detect issues you are having.

Report instance status

lection? Find it in the new Unified Settings

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Instance: i-06dd382af5519e020 (PES1UG20CS588)

Details Security Networking Storage Status checks Monitoring Tags

Manage detailed monitoring

1h 3h 12h 1d 3d 1w Custom

Add to dashboard

CPU utilization (%)

Percent

26

13

0

13:05 14:05

Status check failed (any) (co...)

1

No data available. Try adjusting the dashboard time range.

0.5

0

13:05 14:05

Status check failed (instance)...

1

No data available. Try adjusting the dashboard time range.

0.5

0

13:05 14:05

Status check failed (system) (...)

1

No data available. Try adjusting the dashboard time range.

0.5

0

13:05 14:05

Network in (bytes)

Network out (bytes)

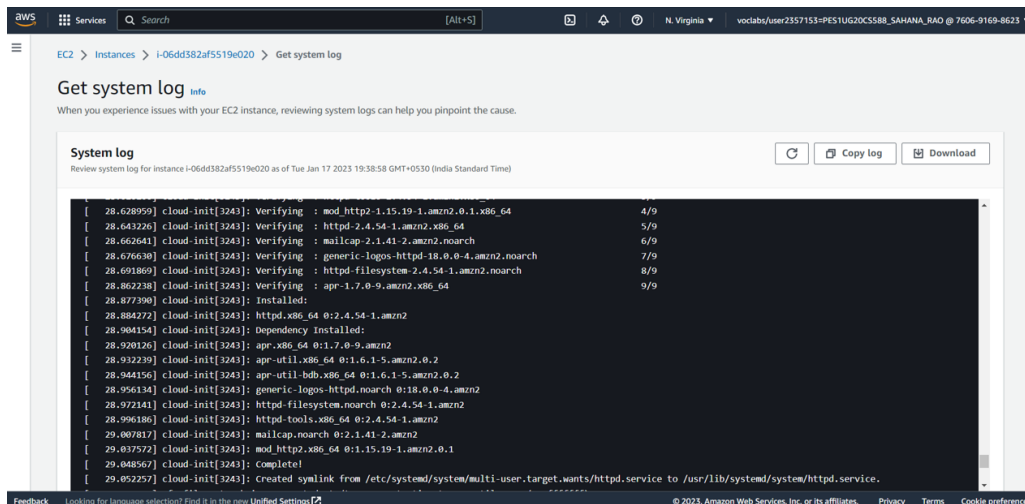
Network packets in (count)

Network packets out (count)

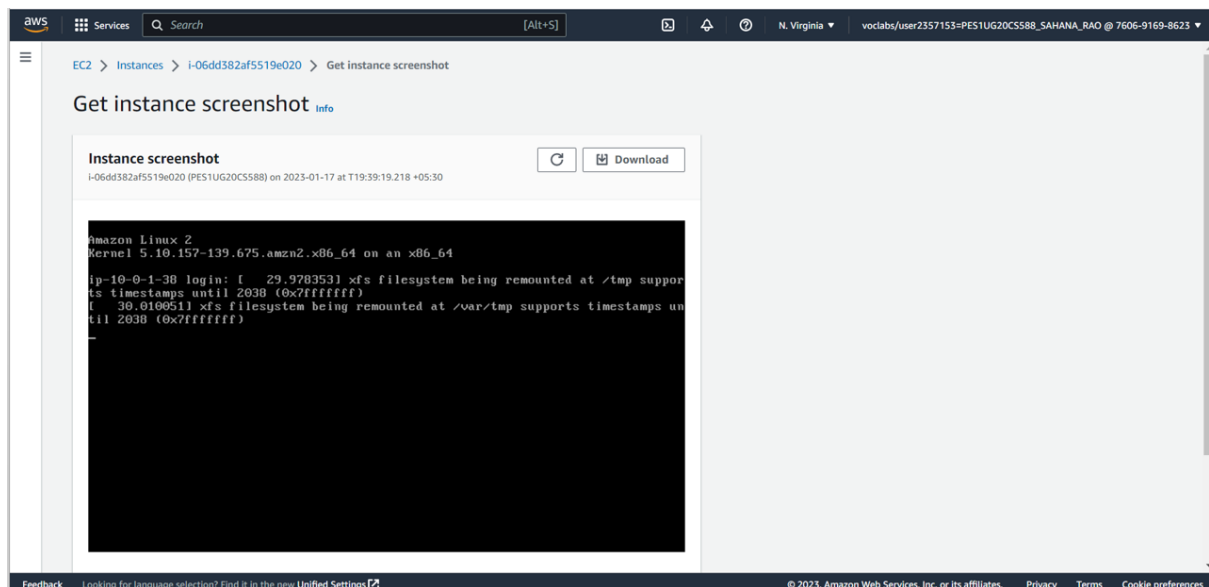
lection? Find it in the new Unified Settings

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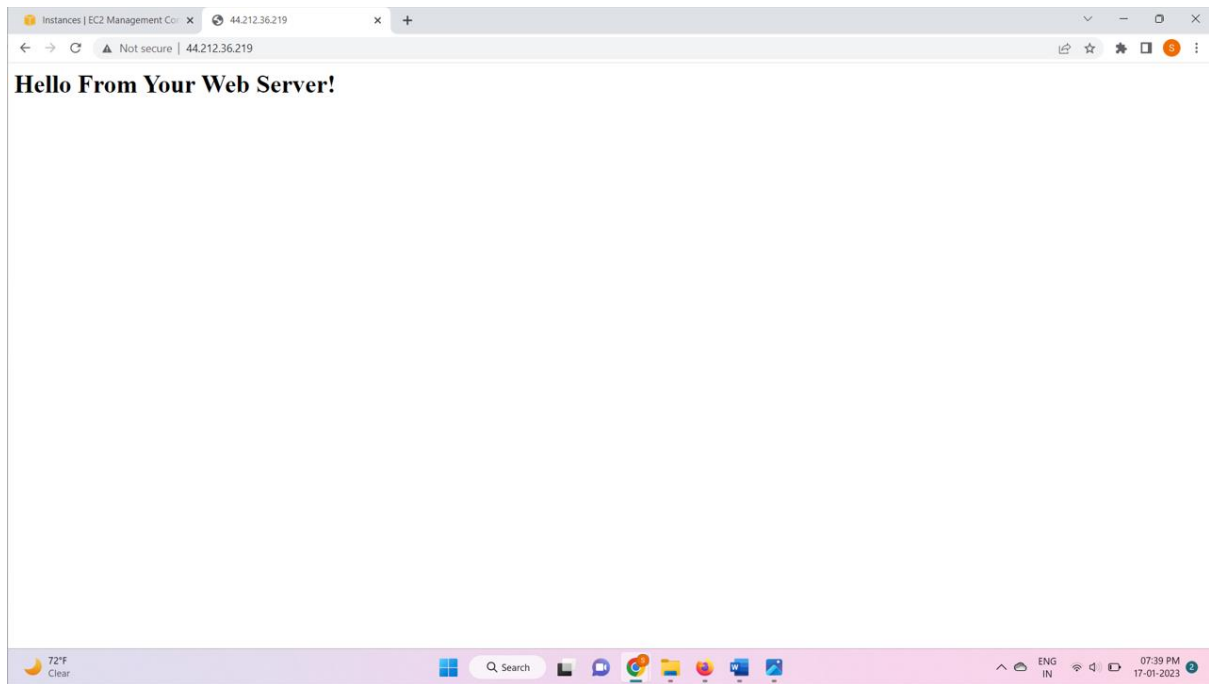
System Logs:



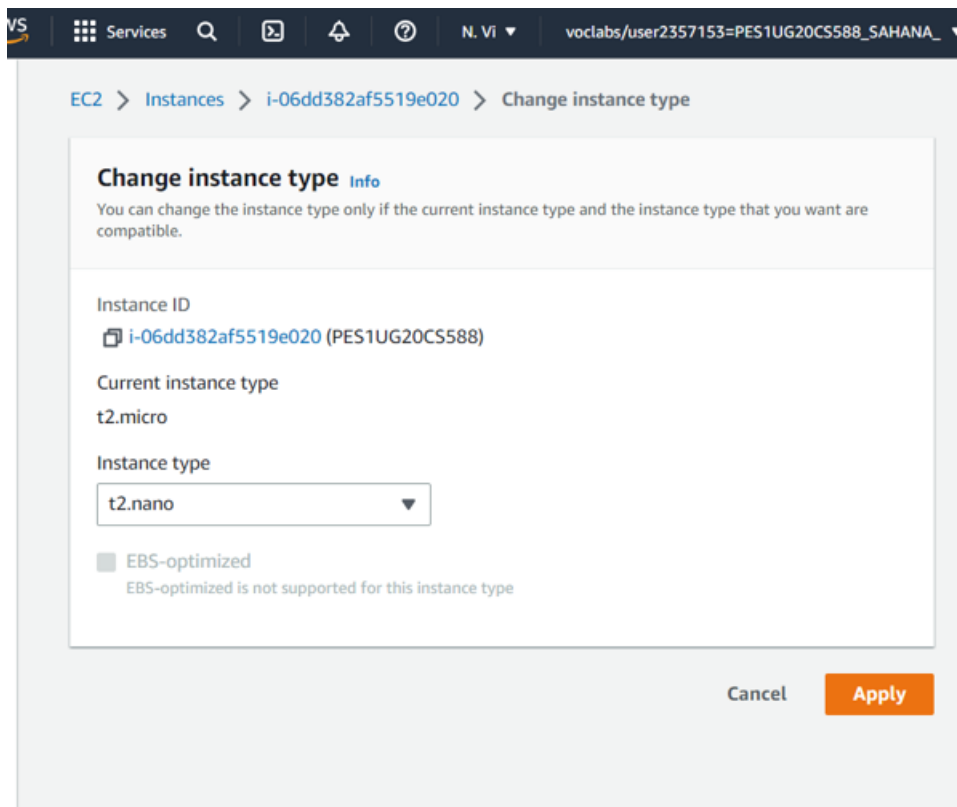
## Instance Screenshot



## 3.Web server browser with message displaying



## 4. Showing instance volume resized



VS

Services

N. VI

voclabs/user2357153=PES1UG20CS588\_SAHANA\_


EC2 > Volumes > vol-0b3cf47f0e14c3c17 > Modify volume

## Modify volume [Info](#)

Modify the type, size, and performance of an EBS volume.

### Volume details

Volume ID

 vol-0b3cf47f0e14c3c17 (PES1UG20CS588)

Volume type [Info](#)

General Purpose SSD (gp2)

Size (GiB) [Info](#)

10

Min: 1 GiB, Max: 16384 GiB. The value must be an integer.

IOPS [Info](#)

100/3000

Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS.

[Cancel](#) [Modify](#)

le.aws.amazon.com/ec2/home?region=us-east-1#Volumes:

[Alt+S]

N. Virginia

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Requested volume modification for volume vol-0b3cf47f0e14c3c17.  
The volume is being modified.

You can now create Amazon Data Lifecycle Manager policies to automate snapshot management directly from this screen. Select the volumes to back up, and then choose **Actions, Create snapshot lifecycle policy**. For more information, see the [Knowledge Center article](#).

Volumes (1)

Search

Name

Volume ID

Type

Size

IOPS

Throughput

Snapshot

Created

Availat

PES1UG20CS5...

vol-0b3cf47f0e14c3c17

gp2

10 GiB

100

-

snap-097c82c...

2023/01/17 19:34 GMT+5:...

us-east

Select a volume above

Successfully removed termination protection for instance i-06dd382af5519e020. The instance can be terminated.

Instances (1/1) info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 D
PES1UG20CS588	i-06dd382af5519e020	Running	t2.nano	2/2 checks passed	No alarms	us-east-1a	ec2-54-89-24

Instance: i-06dd382af5519e020 (PES1UG20CS588)

Details Security Networking Storage Status checks Monitoring Tags

▼ Instance summary info

Instance ID i-06dd382af5519e020 (PES1UG20CS588)	Public IPv4 address 54.89.241.66   <a href="#">open address</a>	Private IPv4 addresses 10.0.1.38
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-54-89-241-66.compute-1.amazonaws.com   <a href="#">open address</a>
Hostname type IP name: ip-10-0-1-38.ec2.internal	Private IP DNS name (IPv4 only) ip-10-0-1-38.ec2.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.nano	AWS Compute Optimizer finding
Auto-assigned IP address	VPC ID	

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Terminated:

Successfully terminated i-06dd382af5519e020

Successfully removed termination protection for instance i-06dd382af5519e020. The instance can be terminated.

Instances (1/1) info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 D
PES1UG20CS588	i-06dd382af5519e020	Terminated	t2.nano	-	No alarms	us-east-1a	-

Instance: i-06dd382af5519e020 (PES1UG20CS588)

Details Security Networking Storage Status checks Monitoring Tags

▼ Instance summary info

Instance ID i-06dd382af5519e020 (PES1UG20CS588)	Public IPv4 address -	Private IPv4 addresses -
IPv6 address -	Instance state Terminated	Public IPv4 DNS -
Hostname type -	Instance type t2.nano	Elastic IP addresses -
Answer private resource DNS name -	VPC ID -	AWS Compute Optimizer finding <a href="#">Opt-in to AWS Compute Optimizer for recommendations.</a>
Auto-assigned IP address -		

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5.EC2 instance in stopped state

