

## Module-2: EC2 Assignment - 1

---

You have been asked to:

1. Create an Instance in us-east-1 (N. Virginia) region with an Ubuntu OS and install Nginx for making them web servers
  2. Change the default website with a hello world page
- 





1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review

# Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

ubuntu

Search by Systems Manager parameter

Quick Start (3)

My AMIs (0)

AWS Marketplace (883)

Community AMIs (38073)

☒ Free tier only

Free tier eligible

Ubuntu Server 20.04 LTS (HVM), SSD Volume Type - ami-09e67e426f25ce0d7 (64-bit x86) / ami-00d1ab6b335f217cf (64-bit Arm)

Ubuntu Server 20.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Root device type: ebs    Virtualization type: hvm    ENA Enabled: Yes

Free tier eligible

Ubuntu Server 18.04 LTS (HVM), SSD Volume Type - ami-0747bdcabd34c712a (64-bit x86) / ami-08353a25e80beea3e (64-bit Arm)

Ubuntu Server 18.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Root device type: ebs    Virtualization type: hvm    ENA Enabled: Yes

Free tier eligible

Ubuntu Server 16.04 LTS (HVM), SSD Volume Type - ami-0ee02acd56a52998e (64-bit x86) / ami-0e011417bd70948da (64-bit Arm)

Ubuntu Server 16.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Root device type: ebs    Virtualization type: hvm    ENA Enabled: Yes

Select

☒ 64-bit (x86)

☐ 64-bit (Arm)

Select

☒ 64-bit (x86)

☐ 64-bit (Arm)

Select

☒ 64-bit (x86)

☐ 64-bit (Arm)

Activate Windows  
Go to Settings to activate Windows.

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

## Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by:

All instance families ▾

Current generation ▾

Show/Hide Columns

Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)

	Family ▾	Type ▾	vCPUs ⓘ ▾	Memory (GiB) ▾	Instance Storage (GB) ⓘ ▾	EBS-Optimized Available ⓘ ▾	Network Performance ⓘ ▾	IPv6 Support ⓘ ▾
<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t2	t2.p3	2	0.5	EBS only	Yes	Up to 5 Gbps	Yes

Cancel

Previous

Review and Launch

Next: Configure Instance Details

Go to Settings to activate Windows.



## Launch Status



### Your instances are now launching

The following instance launches have been initiated: [i-064373a6f36402314](#) [View launch log](#)



### Get notified of estimated charges

[Create billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

## How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

### Here are some helpful resources to get you started

- [How to connect to your Linux instance](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

```
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-1045-aws x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/advantage

System information as of Mon Oct 18 09:54:05 UTC 2021

System load:  0.08          Processes:            100
Usage of /:   16.4% of 7.69GB Users logged in:          0
Memory usage: 22%          IPv4 address for eth0: 172.31.30.5
Swap usage:   0%

1 update can be applied immediately.
To see these additional updates run: apt list --upgradable

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-30-5:~$
```

## i-064373a6f36402314 (Assignment-1)

Public IPs: 54.146.148.142 Private IPs: 172.31.30.5

Activate Windows  
Go to Settings to activate Windows.

```
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packages [490 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted Translation-en [70.2 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 c-n-f Metadata [504 B]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [865 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe Translation-en [185 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 c-n-f Metadata [19.2 kB]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [24.6 kB]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse Translation-en [6856 B]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 c-n-f Metadata [620 B]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 Packages [2568 B]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main Translation-en [1120 B]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 c-n-f Metadata [400 B]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/restricted amd64 c-n-f Metadata [116 B]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages [5800 B]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe Translation-en [2068 B]
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 c-n-f Metadata [276 B]
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:31 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [913 kB]
Get:32 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [173 kB]
Get:33 http://security.ubuntu.com/ubuntu focal-security/main amd64 c-n-f Metadata [8820 B]
Get:34 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [451 kB]
Get:35 http://security.ubuntu.com/ubuntu focal-security/restricted Translation-en [64.7 kB]
Get:36 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 c-n-f Metadata [508 B]
Get:37 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [643 kB]
Get:38 http://security.ubuntu.com/ubuntu focal-security/universe Translation-en [103 kB]
Get:39 http://security.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f Metadata [12.5 kB]
Get:40 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Packages [21.9 kB]
Get:41 http://security.ubuntu.com/ubuntu focal-security/multiverse Translation-en [4948 B]
Get:42 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 c-n-f Metadata [540 B]
Fetched 20.2 MB in 4s (5724 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-30-5:~$ sudo apt-get install nginx
```

i-064373a6f36402314 (Assignment-1)

Public IPs: 54.146.148.142 Private IPs: 172.31.30.5

Activate Windows

Go to Settings to activate Windows.

```
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-1045-aws x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/advantage

System information as of Mon Oct 18 10:06:10 UTC 2021

System load:  0.08          Processes:            106
Usage of /:   18.7% of 7.69GB Users logged in:        1
Memory usage: 24%          IPv4 address for eth0: 172.31.30.5
Swap usage:   0%

139 updates can be applied immediately.
71 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Last login: Mon Oct 18 09:54:07 2021 from 18.206.107.25
ubuntu@ip-172-31-30-5:~$ cd /var/www/html
ubuntu@ip-172-31-30-5:/var/www/html$ ls
index.nginx-debian.html
ubuntu@ip-172-31-30-5:/var/www/html$
```

i-064373a6f36402314 (Assignment-1)

Public IPs: 54.146.148.142 Private IPs: 172.31.30.5

Activate Windows  
Go to Settings to activate Windows.



```
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-1045-aws x86_64)

* Documentation:  https://help.ubuntu.com
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* Support:        https://ubuntu.com/advantage

System information as of Mon Oct 18 10:06:10 UTC 2021

System load:  0.08          Processes:            106
Usage of /:   18.7% of 7.69GB Users logged in:       1
Memory usage: 24%          IPv4 address for eth0: 172.31.30.5
Swap usage:   0%

139 updates can be applied immediately.
71 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Last login: Mon Oct 18 09:54:07 2021 from 18.206.107.25
ubuntu@ip-172-31-30-5:~$ cd /var/www/html
ubuntu@ip-172-31-30-5:/var/www/html$ ls
index.nginx-debian.html
ubuntu@ip-172-31-30-5:/var/www/html$ sudo su
root@ip-172-31-30-5:/var/www/html# rm -r index.nginx-debian.html
```

## i-064373a6f36402314 (Assignment-1)

Public IPs: 54.146.148.142 Private IPs: 172.31.30.5

Activate Windows  
Go to Settings to activate Windows.

Browser tabs: Inbox (851) - ashleshkulkarni19@, Start Course - Intellipaat, Connect to instance | EC2 Manag, i-064373a6f36402314 (Assignme, 54.146.148.142

Address bar: Not secure | 54.146.148.142

Browser bookmarks: Apps, Gmail, YouTube, MATLAB Onramp, Code in Place, (2) WhatsApp, Course: PYT-eSkill I..., Learn to Earn Cloud..., Looker Data Explor..., AWS Management..., Webminal Player, Reading list

HELLO WORLD

Activate Windows  
Go to Settings to activate Windows.

Windows taskbar: Search bar (Type here to search), Taskbar icons (Task View, File Explorer, Chrome), System tray (Weather: 29°C Light rain, Time: 3:44 PM 10/18/2021, Notifications: 3)

## Module-2: EC2 and EBS Assignment - 2

---

You have been asked to:

1. Launch a Linux EC2 instance
  2. Create a EBS volume with 20 GB of storage and attach it the created EC2 instance
  3. Resize the attached volume and make sure it reflects in the connected instance
-

Start Course - Intellipaat

Volumes | EC2 Management Console

console.aws.amazon.com/ec2/v2/home?region=us-east-1#Volumes:sort=desc:createTime

AppsGmailYouTubeMATLAB OnrampCode in Place(2) WhatsAppCourse: PYT-eSkill ...Learn to Earn Cloud...Looker Data Explor...AWS Management...Webminal PlayerReading list

awsServices

Search for services, features, marketplace products, and docs[Alt+S]

Ashlesh KulkarniN. VirginiaSupport

New EC2 ExperienceTell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

InstancesNew

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved InstancesNew

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs

Elastic Block Store

Create VolumeActions

Filter by tags and attributes or search by keyword

	Name	Volume ID	Size	Volume Type	IOPS	Throughput	Snapshot	Created	Availability Zone	State	Alarm Status
		vol-0c1736cf...	20 GiB	gp2	100	-		October 18, 2021 at...	us-east-1a	available	None
		vol-0417013...	8 GiB	gp2	100	-	snap-0a52a8f5...	October 18, 2021 at...	us-east-1a	in-use	None

Select a volume above

Activate WindowsGo to Settings to activate Windows.

FeedbackEnglish (US)

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Type here to search

29°C Light rain3:55 PM10/18/2021



```
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-1045-aws x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/advantage

System information as of Mon Oct 18 10:27:57 UTC 2021

System load:  0.0          Processes:            104
Usage of /:   18.7% of 7.69GB Users logged in:          1
Memory usage: 24%          IPv4 address for eth0: 172.31.30.5
Swap usage:   0%

139 updates can be applied immediately.
71 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Last login: Mon Oct 18 10:06:11 2021 from 18.206.107.26
ubuntu@ip-172-31-30-5:~$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
loop0        7:0    0  33.3M  1 loop /snap/amazon-ssm-agent/3552
loop1        7:1    0  55.5M  1 loop /snap/core18/1997
loop2        7:2    0  70.4M  1 loop /snap/lxd/19647
loop3        7:3    0  32.3M  1 loop /snap/snapd/11588
xvda        202:0    0    8G   0 disk
└─xvda1      202:1    0    8G   0 part /
xvdf        202:80   0   20G   0 disk
ubuntu@ip-172-31-30-5:~$
```

## i-064373a6f36402314 (Assignment-1)

Public IPs: 54.146.148.142 Private IPs: 172.31.30.5

Activate Windows  
Go to Settings to activate Windows.

```
Swap usage: 0%

139 updates can be applied immediately.
71 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Last login: Mon Oct 18 10:06:11 2021 from 18.206.107.26
ubuntu@ip-172-31-30-5:~$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
loop0       7:0      0 33.3M  1 loop /snap/amazon-ssm-agent/3552
loop1       7:1      0 55.5M  1 loop /snap/core18/1997
loop2       7:2      0 70.4M  1 loop /snap/lxd/19647
loop3       7:3      0 32.3M  1 loop /snap/snapd/11588
xvda        202:0     0   8G   0 disk
└─xvda1     202:1     0   8G   0 part /
xvdf        202:80    0  20G   0 disk
ubuntu@ip-172-31-30-5:~$ sudo mkfs -t xfs /dev/xvdf
meta-data=/dev/xvdf            isize=512    agcount=4, agsize=1310720 blks
                     =          sectsz=512   attr=2, projid32bit=1
                     =          crc=1        finobt=1, sparse=1, rmapbt=0
                     =          reflink=1
data        =                  bsize=4096   blocks=5242880, imaxpct=25
                     =          sunit=0      swidth=0 blks
naming      =version 2        bsize=4096   ascii-ci=0, ftype=1
log         =internal log    bsize=4096   blocks=2560, version=2
                     =          sectsz=512   sunit=0 blks, lazy-count=1
realtime    =none            extsz=4096   blocks=0, rtextents=0
ubuntu@ip-172-31-30-5:~$ sudo mkdir /ebs
ubuntu@ip-172-31-30-5:~$ sudo mount /dev/xvdf /ebs
ubuntu@ip-172-31-30-5:~$
```

i-064373a6f36402314 (Assignment-1)

Public IPs: 54.146.148.142 Private IPs: 172.31.30.5

Activate Windows

Go to Settings to activate Windows.

```
ubuntu@ip-172-31-30-5:~$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
loop0       7:0      0  33.3M  1 loop /snap/amazon-ssm-agent/3552
loop1       7:1      0  55.5M  1 loop /snap/core18/1997
loop2       7:2      0  70.4M  1 loop /snap/lxd/19647
loop3       7:3      0  32.3M  1 loop /snap/snapd/11588
xvda        202:0     0    8G   0 disk
└─xvda1     202:1     0    8G   0 part /
xvdf        202:80    0   20G   0 disk
ubuntu@ip-172-31-30-5:~$ sudo mkfs -t xfs /dev/xvdf
meta-data=/dev/xvdf            isize=512    agcount=4, agsize=1310720 blks
                     =          sectsz=512   attr=2, projid32bit=1
                     =          crc=1        finobt=1, sparse=1, rmapbt=0
                     =          reflink=1
data            =          bsize=4096   blocks=5242880, imaxpct=25
                     =          sunit=0      swidth=0 blks
naming          =version 2      bsize=4096   ascii-ci=0, ftype=1
log             =internal log   bsize=4096   blocks=2560, version=2
                     =          sectsz=512   sunit=0 blks, lazy-count=1
realtime        =none          extsz=4096   blocks=0, rtextents=0
ubuntu@ip-172-31-30-5:~$ sudo mkdir /ebs
ubuntu@ip-172-31-30-5:~$ sudo mount /dev/xvdf /ebs
ubuntu@ip-172-31-30-5:~$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
loop0       7:0      0  33.3M  1 loop /snap/amazon-ssm-agent/3552
loop1       7:1      0  55.5M  1 loop /snap/core18/1997
loop2       7:2      0  70.4M  1 loop /snap/lxd/19647
loop3       7:3      0  32.3M  1 loop /snap/snapd/11588
xvda        202:0     0    8G   0 disk
└─xvda1     202:1     0    8G   0 part /
xvdf        202:80    0   20G   0 disk /ebs
ubuntu@ip-172-31-30-5:~$
```

i-064373a6f36402314 (Assignment-1)

Public IPs: 54.146.148.142 Private IPs: 172.31.30.5

Activate Windows

Go to Settings to activate Windows.

Start Course - Intellipaat

Volumes | EC2 Management Console

Connect to instance | EC2 Management Console

i-064373a6f36402314 (Assignment) | EC2 Management Console

console.aws.amazon.com/ec2/v2/home?region=us-east-1#Volumes:sort=desc:createTime

Apps Gmail YouTube MATLAB Onramp Code in Place (2) WhatsApp Course: PYT-eSkill Learn to Earn Cloud... Looker Data Explorer... AWS Management... Webminal Player

Reading list

aws

Services

Search for services, features, marketplace products, and docs

[Alt+S]

Ashlesh Kulkarni

N. Virginia

Support

New EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs

Elastic Block Store

Create Volume

Actions

Filter by tags and attributes or search by keyword

	Name	Volume ID	Size	Volume Type	IOPS	Throughput	Snapshot	Created	Availability Zone	State	Alarm Status
		vol-0c1736cf...	20 GiB	gp2	100	-		October 18, 2021 at...	us-east-1a	in-use	None
		vol-0417013...	8 GiB	gp2	100	-	snap-0a52a8f5...	October 18, 2021 at...	us-east-1a	in-use	None

Volumes: vol-0c1736cf76cc69b70

Description

Status Checks

Monitoring

Volume ID	vol-0c1736cf76cc69b70
Alarm status	No alarms
Snapshot	-
Availability Zone	us-east-1a

Modify Volume

Volume ID

vol-0c1736cf76cc69b70

Volume Type

General Purpose SSD (gp2)

Size

21

(Min: 1 GiB, Max: 16384 GiB)

lops

100 / 3000

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

Cancel

Modify

Feedback

English (US)

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Privacy Policy

Terms of Use

Cookie preferences

Type here to search

29°C Light rain

4:05 PM 10/18/2021



```
ubuntu@ip-172-31-30-5:~$ sudo mkfs -t xfs /dev/xvdf
meta-data=/dev/xvdf            isize=512    agcount=4, agsize=1310720 blks
                    =          sectsz=512   attr=2, projid32bit=1
                    =          crc=1        finobt=1, sparse=1, rmapbt=0
                    =          reflink=1
data            =          bsize=4096   blocks=5242880, imaxpct=25
                    =          sunit=0     swidth=0 blks
naming          =version 2        bsize=4096   ascii-ci=0, ftype=1
log             =internal log     bsize=4096   blocks=2560, version=2
                    =          sectsz=512   sunit=0 blks, lazy-count=1
realtime        =none            extsz=4096   blocks=0, rtextents=0
ubuntu@ip-172-31-30-5:~$ sudo mkdir /ebs
ubuntu@ip-172-31-30-5:~$ sudo mount /dev/xvdf /ebs
ubuntu@ip-172-31-30-5:~$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
loop0       7:0      0  33.3M  1 loop /snap/amazon-ssm-agent/3552
loop1       7:1      0  55.5M  1 loop /snap/core18/1997
loop2       7:2      0  70.4M  1 loop /snap/lxd/19647
loop3       7:3      0  32.3M  1 loop /snap/snapd/11588
xvda        202:0    0    8G    0 disk 
└─xvda1     202:1    0    8G    0 part /
xvdf        202:80   0   20G    0 disk /ebs
ubuntu@ip-172-31-30-5:~$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
loop0       7:0      0  33.3M  1 loop /snap/amazon-ssm-agent/3552
loop1       7:1      0  55.5M  1 loop /snap/core18/1997
loop2       7:2      0  70.4M  1 loop /snap/lxd/19647
loop3       7:3      0  32.3M  1 loop /snap/snapd/11588
xvda        202:0    0    8G    0 disk 
└─xvda1     202:1    0    8G    0 part /
xvdf        202:80   0   21G    0 disk /ebs
ubuntu@ip-172-31-30-5:~$
```

i-064373a6f36402314 (Assignment-1)

Public IPs: 54.146.148.142 Private IPs: 172.31.30.5

Activate Windows

Go to Settings to activate Windows.

## Module-2: EC2 and EFS Assignment - 3

---

You have been asked to:

1. Create an EFS and connect it to 3 different EC2 instances. Make sure the all instances have different Operating System. For instance, Ubuntu, Red Hat Linux and Amazon Linux 2.
-

Start Course - Intellipa...Amazon EFSInstances | EC2 Management Co...+

console.aws.amazon.com/efs/home?region=us-east-1#/get-started

AppsGmailYouTubeMATLAB OnrampCode in Place(2) WhatsAppCourse: PYT-eSkill L...Learn to Earn Cloud...Looker Data Explor...AWS Management...Webminal PlayerReading list

aws

Services

Search for services, features, marketplace products, and docs[Alt+S]

Ashlesh KulkarniN. VirginiaSupport

Elastic File System

File systemsAccess points

AWS BackupAWS DataSyncAWS TransferDocumentation

Create file system

Create an EFS file system with service recommended settings. Learn more

Name - optional

Name your file system.

ash-assignment3

Name must not be longer than 256 characters, and must only contain letters, numbers, and these characters: + - = . \_ : /

Virtual Private Cloud (VPC)

Choose the VPC where you want EC2 instances to connect to your file system. Learn more

vpc-0bd9cbb3822c5978ddefault

Availability and Durability

Choose Regional (recommended) to create a file system using regional storage classes. Choose One Zone to create a file system using One Zone storage classes. Learn more

☒ Regional

Stores data redundantly across multiple AZs

☐ One Zone

Stores data redundantly within a single AZ

Cancel

Customize

Create

FeedbackEnglish (US)

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Windows Taskbar

Type here to search

Taskbar Icons

System Tray

28°C Light rain4:16 PM10/18/2021

```
Swap usage: 0%

* Ubuntu Pro delivers the most comprehensive open source security and
  compliance features.

  https://ubuntu.com/aws/pro

139 updates can be applied immediately.
71 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Last login: Mon Oct 18 10:47:23 2021 from 18.206.107.24
ubuntu@ip-172-31-30-5:~$ sudo mkdir efs
ubuntu@ip-172-31-30-5:~$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsiz=1048576,hard,timeo=600,retrans=2,noresvport fs-0c216c7a896933594.efs.us-east-1.
amazonaws.com:/ efs
ubuntu@ip-172-31-30-5:~$ df -h
Filesystem                                Size  Used Avail Use% Mounted on
/dev/root                                7.7G  1.5G  6.3G  19% /
devtmpfs                                484M    0  484M   0% /dev
tmpfs                                    490M    0  490M   0% /dev/shm
tmpfs                                    98M   812K   98M   1% /run
tmpfs                                    5.0M    0   5.0M   0% /run/lock
tmpfs                                    490M    0  490M   0% /sys/fs/cgroup
/dev/loop0                               34M   34M    0 100% /snap/amazon-ssm-agent/3552
/dev/loop1                               56M   56M    0 100% /snap/core18/1997
/dev/loop2                               71M   71M    0 100% /snap/lxd/19647
/dev/loop3                               33M   33M    0 100% /snap/snapd/11588
tmpfs                                    98M    0   98M   0% /run/user/1000
/dev/xvdf                                20G  175M   20G   1% /ebs
fs-0c216c7a896933594.efs.us-east-1.amazonaws.com:/ 8.0E    0  8.0E   0% /home/ubuntu/efs
ubuntu@ip-172-31-30-5:~$
```

i-064373a6f36402314 (Assignment-1)

Public IPs: 54.146.148.142 Private IPs: 172.31.30.5

Activate Windows  
Go to Settings to activate Windows.



```
Last login: Mon Oct 18 10:49:08 2021 from ec2-18-206-107-24.compute-1.amazonaws.com

  _ | _ | _ )
 _ | ( _ | _ /  Amazon Linux 2 AMI
 _ | \ _ | _ |

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-21-186 ~]$ sudo yum install amazon-nfs-utils
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00:00
No package amazon-nfs-utils available.
Error: Nothing to do
[ec2-user@ip-172-31-21-186 ~]$ sudo mkdir efs
[ec2-user@ip-172-31-21-186 ~]$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsiz=1048576,hard,timeo=600,retrans=2,noresvport fs-0c216c7a896933594.efs.us-east-1.amazonaws.com:/ efs
[ec2-user@ip-172-31-21-186 ~]$ df -h
Filesystem                                Size  Used Avail Use% Mounted on
devtmpfs                                482M   0  482M   0% /dev
tmpfs                                   492M   0  492M   0% /dev/shm
tmpfs                                   492M 496K  492M   1% /run
tmpfs                                   492M   0  492M   0% /sys/fs/cgroup
/dev/xvda1                             8.0G  1.7G  6.4G  21% /
tmpfs                                   99M   0   99M   0% /run/user/1000
tmpfs                                   99M   0   99M   0% /run/user/0
fs-0c216c7a896933594.efs.us-east-1.amazonaws.com:/ 8.0E   0  8.0E   0% /home/ec2-user/efs
[ec2-user@ip-172-31-21-186 ~]$
```

i-08075094d23ae1854 (Amazon-linux-ash)

Public IPs: 54.167.99.241 Private IPs: 172.31.21.186

Activate Windows  
Go to Settings to activate Windows.