

1.Create two instances in one availability zone in us-west-2a

2.create another instance in us-west-2b

3.create another instance in us-west-2c

4.create instance with security group of NFS TYPE

myaccess.wisseninfotech x Adrenalin MAX x Mail - Grandhi Charan Teja - Out x Launch instance wizard | EC2 Ma x +

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

Services Search for services, features, blogs, docs, and more [Alt+S]

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

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances ⓘ 2 [Launch into Auto Scaling Group](#) ⓘ

You may want to consider launching these instances into an Auto Scaling Group to help you maintain application availability and for easy scaling in the future. [Learn how Auto Scaling can help your application stay healthy and cost effective.](#)

Purchasing option ⓘ ☐ Request Spot instances

Network ⓘ vpc-03f72008e294f9003 (default) [Create new VPC](#)

Subnet ⓘ subnet-020b61ad8210a339f | Default in us-west-2a [Create new subnet](#)

Auto-assign Public IP ⓘ

Hostname type ⓘ

DNS Hostname ⓘ ☒ Enable IP name IPv4 (A record) DNS requests

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

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14:18 16-08-2022

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us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

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

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances [Launch into Auto Scaling Group](#)

Purchasing option ☐ Request Spot instances

Network [Create new VPC](#)

Subnet [Create new subnet](#)

Auto-assign Public IP ☐ [No preference \(default subnet in any Availability Zone\)](#)

Hostname type ☐ [No preference \(default subnet in any Availability Zone\)](#)

DNS Hostname ☒ Enable IP name IPv4 (A record) DNS requests
☒ Enable resource-based IPv4 (A record) DNS requests
☐ Enable resource-based IPv6 (AAAA record) DNS requests

Placement group ☐ Add instance to placement group

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us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

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

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances [Launch into Auto Scaling Group](#)

Purchasing option ☐ Request Spot instances

Network [Create new VPC](#)

Subnet [Create new subnet](#)

Auto-assign Public IP ☐ [No preference \(default subnet in any Availability Zone\)](#)

Hostname type ☐ [No preference \(default subnet in any Availability Zone\)](#)

DNS Hostname ☒ Enable IP name IPv4 (A record) DNS requests
☒ Enable resource-based IPv4 (A record) DNS requests
☐ Enable resource-based IPv6 (AAAA record) DNS requests

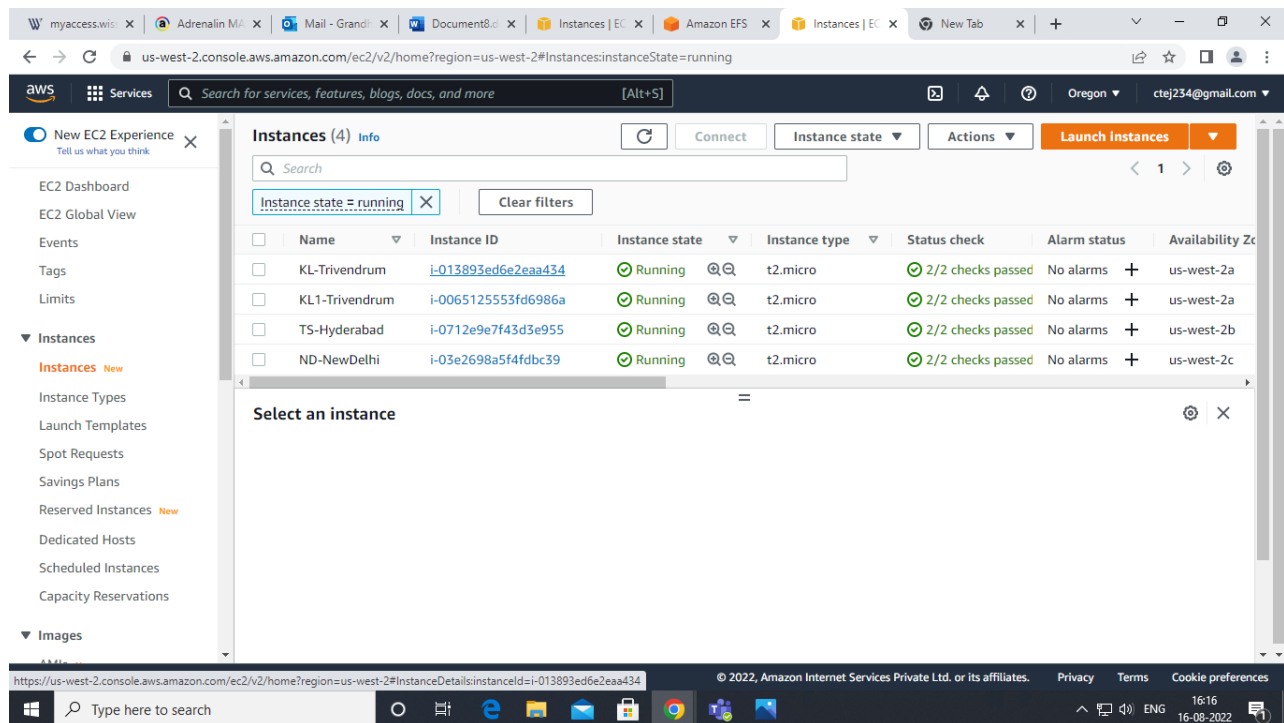
Placement group ☐ Add instance to placement group

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Connect to EC2 INSTANCE and give some commands

1. Sudo su -
2. update command – yum update –y
3. hostname setup command – hostnamectl set-hostname KL-Trivendrum
4. execute the host command – exec bash
5. efs command -- Sudo yum install –y amazon-efs-utils
6. To start command - sudo service nfs start
7. To status command – sudo service nfs status
8. mkdir efs – to create directory

myaccess.wissen... Adrenalin MAX Mail - Grandhi C... Connect to insta... EC2 Instance Co... Connect to insta... EC2 Instance Co... +

us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-west-2&connType=standard&instanceId=i-0712e9e7f43d3e955&osUser=ec2-user&sshPort=... 2/2

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Verifying : amazon-efs-utils-1.33.2-1.amzn2.noarch

Installed:
amazon-efs-utils.noarch 0:1.33.2-1.amzn2

Dependency Installed:
stunnel.x86_64 0:4.56-6.amzn2.0.3

Complete!

```
[root@ts-hyderabad ~]# sudo service nfs start
Redirecting to /bin/systemctl start nfs.service
[root@ts-hyderabad ~]# sudo service nfs status
Redirecting to /bin/systemctl status nfs.service
● nfs-server.service - NFS server and services
   Loaded: loaded (/usr/lib/systemd/system/nfs-server.service; disabled; vendor preset: disabled)
   Active: active (exited) since Tue 2022-08-16 09:16:45 UTC; 4s ago
     Process: 4078 ExecStart=/usr/sbin/rpc.nfsd $RPCNFSDARGS (code=exited, status=0/SUCCESS)
     Process: 4074 ExecStartPre=/bin/sh -c /bin/kill -HUP `cat /run/gssproxy.pid` (code=exited, status=0/SUCCESS)
     Process: 4072 ExecStartPre=/usr/sbin/exportfs -r (code=exited, status=0/SUCCESS)
    Main PID: 4078 (code=exited, status=0/SUCCESS)
   CGroup: /system.slice/nfs-server.service

Aug 16 09:16:44 ts-hyderabad systemd[1]: Starting NFS server and services...
Aug 16 09:16:45 ts-hyderabad systemd[1]: Started NFS server and services.
[root@ts-hyderabad ~]#
```

i-0712e9e7f43d3e955 (TS-Hyderabad)
PublicIPs: 54.191.15.79 PrivateIPs: 172.31.36.249

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myaccess.wisseninfotech Adrenalin MAX Mail - Grandhi Charan Teja - Connect to instance | EC2 M... EC2 Instance Connect +

us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-013893ed6e2eaa434&osUser=ec2-user®ion=us-west-2&sshPort=... 14:46 16-08-2022

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```
[root@kl-trivendrum ~]# mkdir efs
[root@kl-trivendrum ~]# ls
efs
[root@kl-trivendrum ~]#
```

i-013893ed6e2eaa434 (KL-Trivendrum)
PublicIPs: 54.245.190.51 PrivateIPs: 172.31.20.97

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myaccess.wisseninfotech x Adrenalin MAX x Mail - Grandhi Charan Teja - x Connect to instance | EC2 M... x EC2 Instance Connect x + -

us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-013893ed6e2aaa434&osUser=ec2-user®ion=us-west-2&sshPort=... ☆ □

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```
Verifying : ec2-net-utils-1.7.0-1.amzn2.noarch 10/21
Verifying : glibc-locale-source-2.26-60.amzn2.x86_64 11/21
Verifying : glibc-common-2.26-59.amzn2.x86_64 12/21
Verifying : ec2-net-utils-1.6.1-2.amzn2.noarch 13/21
Verifying : libcrypt-2.26-59.amzn2.x86_64 14/21
Verifying : ec2-instance-connect-1.1-15.amzn2.noarch 15/21
Verifying : glibc-minimal-langpack-2.26-59.amzn2.x86_64 16/21
Verifying : 1:openssl-1.0.2k-24.amzn2.0.3.x86_64 17/21
Verifying : glibc-2.26-59.amzn2.x86_64 18/21
Verifying : 1:openssl-libs-1.0.2k-24.amzn2.0.3.x86_64 19/21
Verifying : glibc-all-langpacks-2.26-59.amzn2.x86_64 20/21
Verifying : glibc-locale-source-2.26-59.amzn2.x86_64 21/21

Dependency Installed:
ec2-instance-connect-selinux.noarch 0:1.1-19.amzn2

Updated:
ec2-instance-connect.noarch 0:1.1-19.amzn2          ec2-net-utils.noarch 0:1.7.0-1.amzn2          glibc.x86_64 0:2.26-60.amzn2
glibc-all-langpacks.x86_64 0:2.26-60.amzn2          glibc-common.x86_64 0:2.26-60.amzn2          glibc-locale-source.x86_64 0:2.26-60.amzn2
glibc-minimal-langpack.x86_64 0:2.26-60.amzn2        libcrypt.x86_64 0:2.26-60.amzn2          openssl.x86_64 1:1.0.2k-24.amzn2.0.4
openssl-libs.x86_64 1:1.0.2k-24.amzn2.0.4

Complete!
[root@ip-172-31-20-97 ~]# hostnamectl set-hostname KL-Trivendum
[root@ip-172-31-20-97 ~]# exec bash
```

i-013893ed6e2aaa434 (KL-Trivendum)

PublicIPs: 54.245.190.51 PrivateIPs: 172.31.20.97

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myaccess.wisseninfotech x Adrenalin MAX x Mail - Grandhi Charan Teja - x Connect to instance | EC2 M... x EC2 Instance Connect x + -

us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-013893ed6e2aaa434&osUser=ec2-user®ion=us-west-2&sshPort=... ☆ □

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```
[root@kl-trivendum ~]# mkdir efs
[root@kl-trivendum ~]# ls
efs
[root@kl-trivendum ~]#
```

i-013893ed6e2aaa434 (KL-Trivendum)

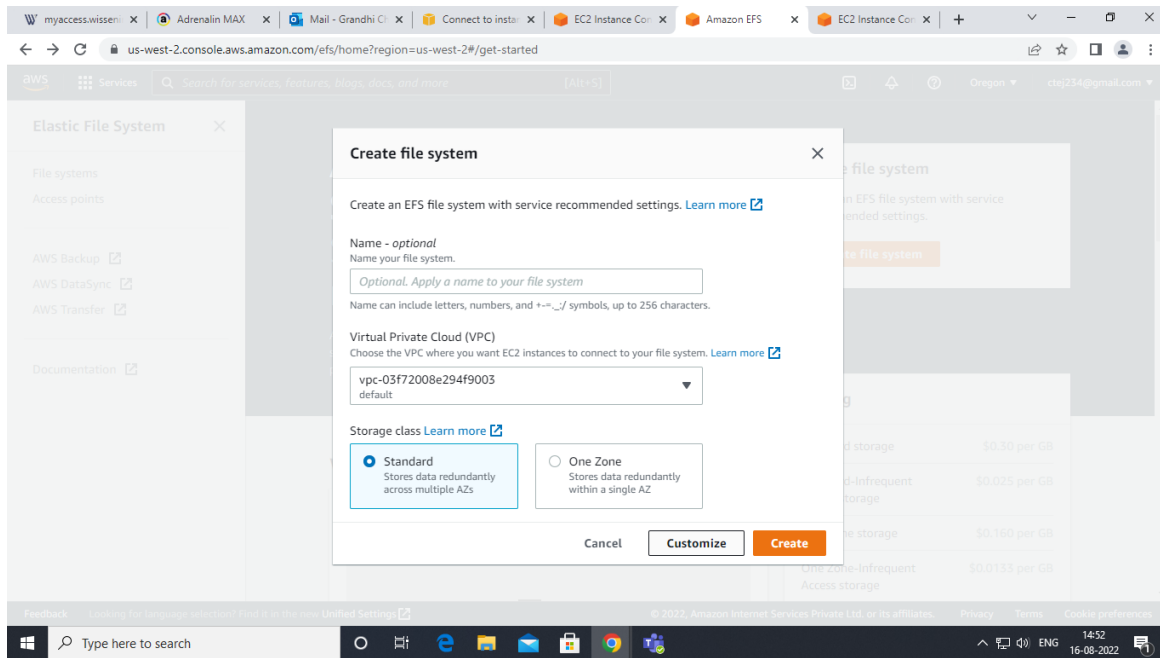
PublicIPs: 54.245.190.51 PrivateIPs: 172.31.20.97

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CREATE EFS

Go to Customize and create efs



Efs is created and click on attach

myaccess.wiki x Adrenalin M x Mail - Grand x Instances | EC x Connect to x EC2 Instance x EC2 Manager x Amazon EFS x

us-west-2.console.aws.amazon.com/efs/home?region=us-west-2#/file-systems/fs-08ccdc5622d719689

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Elastic File System

- File systems
- Access points
- AWS Backup
- AWS DataSync
- AWS Transfer
- Documentation

NFSforEFSImplementation (fs-08ccdc5622d719689)

Delete Attach

General

Edit

Performance mode	Automatic backups
General Purpose	Disabled
Throughput mode	Encrypted
Bursting	No
Lifecycle management	File system state
Transition into IA: 30 days since last access	Available
Transition out of IA: On first access	DNS name
Availability zone	fs-08ccdc5622d719689.efs.us-west-2.amazonaws.com
Standard	

Metered size Monitoring Tags File system policy Access points Network Replication

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myaccess.wiki x Adrenalin M x Mail - Grand x Instances | EC x Connect to x EC2 Instance x EC2 Manager x Amazon EFS x

us-west-2.console.aws.amazon.com/efs/home?region=us-west-2#/file-systems/fs-08ccdc5622d719689

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Elastic File System

- File systems
- Access points
- AWS Backup
- AWS DataSync
- AWS Transfer
- Documentation

Attach

Mount your Amazon EFS file system on a Linux instance. [Learn more](#)

☒ Mount via DNS ☐ Mount via IP

Using the EFS mount helper:

```
sudo mount -t efs -o tls fs-08ccdc5622d719689:/ efs
```

Using the NFS client:

```
sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsz=1048576,hard,timeo=600,retrans=2,noresvport fs-08ccdc5622d719689.efs.us-west-2.amazonaws.com:/ efs
```

See our user guide for more information. [User guide](#)

Close

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```
myaccess.wiki x Adrenalin Mail x Mail - Grand x Instances | EC x Connect to x EC2 Instance x EC2 Manage x Amazon EFS x +
us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-west-2&connType=standard&instanceId=i-0712e9e7f43d3e955&osUser=ec2-user&sshPort=...
AWS Services Search for services, features, blogs, docs, and more [Alt+S] Oregon cte234@gmail.com
Last login: Tue Aug 16 09:13:37 2022 from ec2-18-237-140-163.us-west-2.compute.amazonaws.com

      _ _ _
     _(_)_/
    _(_)_/

Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ts-hyderabad ~]$ sudo su -
Last login: Tue Aug 16 09:15:07 UTC 2022 on pts/0
[root@ts-hyderabad ~]$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-08ccdc5622d719689.efs.us-west-2.amazonaws.com:/ efs
[root@ts-hyderabad ~]$ ls
efs
[root@ts-hyderabad ~]$ cd efs
[root@ts-hyderabad efs]$ ls
file1.txt
[root@ts-hyderabad efs]$ nano file1.txt
[root@ts-hyderabad efs]$ touch TSHYD
[root@ts-hyderabad efs]$ LS
-bash: LS: command not found
[root@ts-hyderabad efs]$ ls
file1.txt TSHYD
[root@ts-hyderabad efs]$
```

i-0712e9e7f43d3e955 (TS-Hyderabad)
PublicIPs: 54.191.15.79 PrivateIPs: 172.31.36.249

```
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myaccess.wiki x Adrenalin Mail x Mail - Grand x Instances | EC x Connect to x EC2 Instance x EC2 Manage x Amazon EFS x +
us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-west-2&connType=standard&instanceId=i-03e2698a5f4fdb39&osUser=ec2-user&sshPort=2...
AWS Services Search for services, features, blogs, docs, and more [Alt+S] Oregon cte234@gmail.com
Last login: Tue Aug 16 09:13:43 2022 from ec2-18-237-140-164.us-west-2.compute.amazonaws.com

      _ _ _
     _(_)_/
    _(_)_/

Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
[ec2-user@end-newdelhi ~]$ sudo su -
-bash: sud: command not found
[ec2-user@end-newdelhi ~]$ sudo su -
Last login: Tue Aug 16 09:17:25 UTC 2022 on pts/0
[root@end-newdelhi ~]$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport 172.31.18.53:/ efs
[root@end-newdelhi ~]$ ls
efs
[root@end-newdelhi ~]$ cd efs
[root@end-newdelhi efs]$ ls
file1.txt TSHYD
[root@end-newdelhi efs]$
```

i-03e2698a5f4fdb39 (ND-NewDelhi)
PublicIPs: 18.237.15.25 PrivateIPs: 172.31.2.79



The screenshot shows a web browser window with the AWS Management Console interface. The terminal session is as follows:

```
Last login: Tue Aug 16 09:13:43 2022 from ec2-18-237-140-164.us-west-2.compute.amazonaws.com

 _ _ _ _ _
| | | | |
|_|_|_|_|_|_ Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
(ec2-user@nd-newdelhi ~)$ sudo su -
~bash: sudo: command not found
(ec2-user@nd-newdelhi ~)$ sudo su -
Last login: Tue Aug 16 09:17:25 UTC 2022 on pts/0
[root@nd-newdelhi ~]$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport 172.31.18.53:/ efs
[root@nd-newdelhi ~]$ ls
efs
[root@nd-newdelhi ~]$ cd efs
[root@nd-newdelhi efs]$ ls
file1.txt  TSHYD
[root@nd-newdelhi efs]$ nano file1.txt
[root@nd-newdelhi efs]$ nano TSHYD
[root@nd-newdelhi efs]$ ls
file1.txt  TSHYD
[root@nd-newdelhi efs]$ ls
file1.txt  TSHYD
[root@nd-newdelhi efs]$
```

i-03e2698a5f4fdb39 (ND-NewDelhi)

PublicIPs: 18.237.15.25 PrivateIPs: 172.31.2.79

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Conclusion: EFS Mounting and Running successfully with different availability zones