

# 6th June:

The screenshot shows the AWS Launch Instance Wizard Step 1: Choose an Amazon Machine Image (AMI). The user has selected the 'Free tier eligible' filter. Three AMIs are listed:

- Amazon Linux 2 AMI (HVM), SSD Volume Type** - ami-0447a12f28fddb066 (64-bit x86) / ami-057cc5e3980e13d8a (64-bit Arm)  
Description: Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras.  
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes  
 64-bit (x86)  
 64-bit (Arm)
- Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type** - ami-005956c5f0f757d37  
Description: The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.  
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes  
 64-bit (x86)
- Red Hat Enterprise Linux 8 (HVM), SSD Volume Type** - ami-052c08d70def0ac62 (64-bit x86) / ami-0bab1ce996865e841 (64-bit Arm)  
Description: Red Hat Enterprise Linux version 8 (HVM) - EBS General Purpose (SSD) Volume Type  
 64-bit (x86)

**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: 1

Purchasing option:  Request Spot instances

Network: vpc-15f8e57d (default)

Subnet: subnet-d7ead0bf | Default in ap-south-1a   
4091 IP Addresses available

Auto-assign Public IP: Use subnet setting (Enable)

Placement group:  Add instance to placement group

Capacity Reservation:

IAM role: None

The screenshot shows the AWS Launch Instance Wizard Step 3: Configure Instance Details. The user has selected the 'Free tier eligible' filter. The configuration details are identical to the previous screenshot, showing the selection of the Amazon Linux 2 AMI and the configuration of instance details like network, subnet, and IAM role.

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/xvda	snapshot-0098be2da36a1fea3	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted
<a href="#">Add New Volume</a>								

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

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

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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 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.

A copy of a tag can be applied to volumes, instances or both.

Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key	(128 characters maximum)	Value	(256 characters maximum)	Instances	Volumes
NAME		mylinuxos1		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Add another tag	(Up to 50 tags maximum)				

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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 6: Configure Security Group**

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more about Amazon EC2 security groups.](#)

**Assign a security group:**

- Create a **new** security group
- Select an **existing** security group

**Security group name:** launch-wizard-5

**Description:** launch-wizard-5 created 2020-06-06T18:36:02.342+05:30

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom	0.0.0.0/0 e.g. SSH for Admin Desktop

**Add Rule**

**Warning**  
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

**Cancel** **Previous** **Review and Launch**

**Step 7: Review Instance Launch**

**AMI Details**

**Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0447a12f28fdbb066**

**Free tier eligible** Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras.  
Root Device Type: ebs Virtualization type: hvm

**Instance Type**

**Edit instance type**

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

**Security Groups**

**Edit security groups**

**Security group name** launch-wizard-5  
**Description** launch-wizard-5 created 2020-06-06T18:36:02.342+05:30

**Cancel** **Previous** **Launch**

Step 7: Review Instance Launch

AMI Details

Amazon Linux 2 AMI (HVM), S

Free tier Amazon Linux 2 comes with five year eligible software packages through extras.

Root Device Type: ebs Virtualization type:

Instance Type

Instance Type	ECUs
t2.micro	Variable

Security Groups

Security group name launch-wizard-1

Description launch-wizard-1

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.

Choose an existing key pair Select a key pair mykey1111

I acknowledge that I have access to the selected private key file (mykey1111.pem), and that without this file, I won't be able to log into my instance.

Cancel Launch Instances

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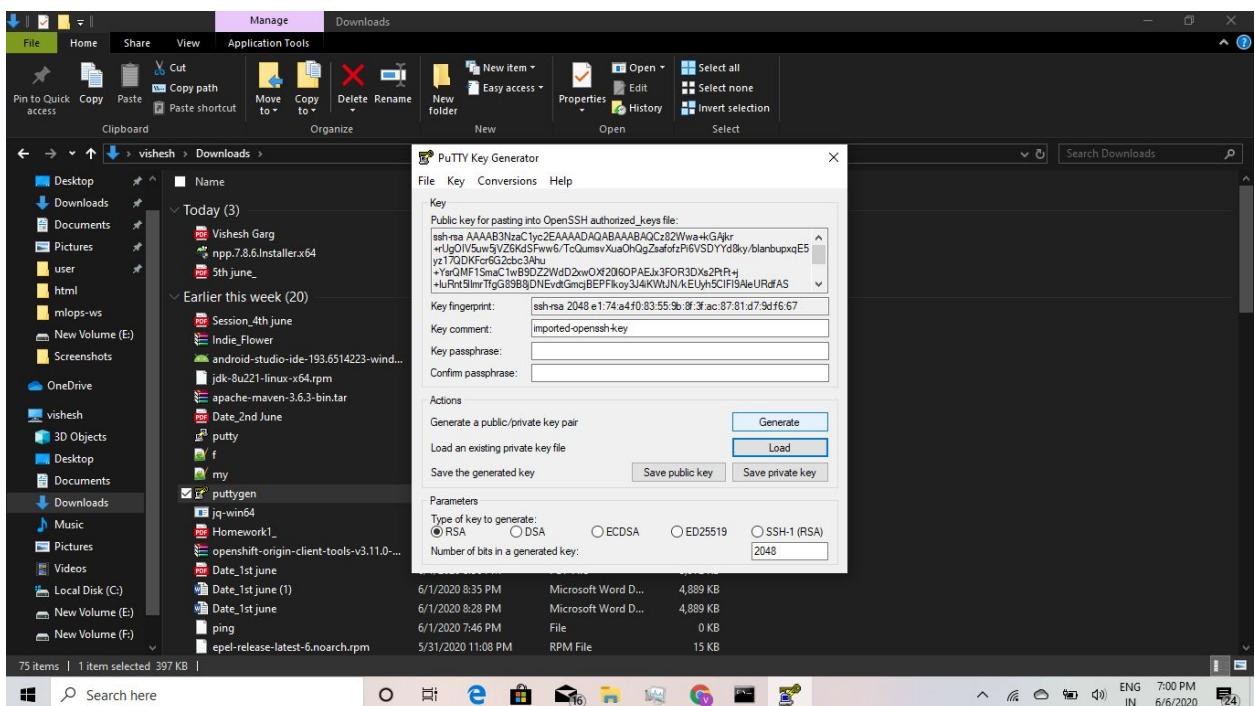
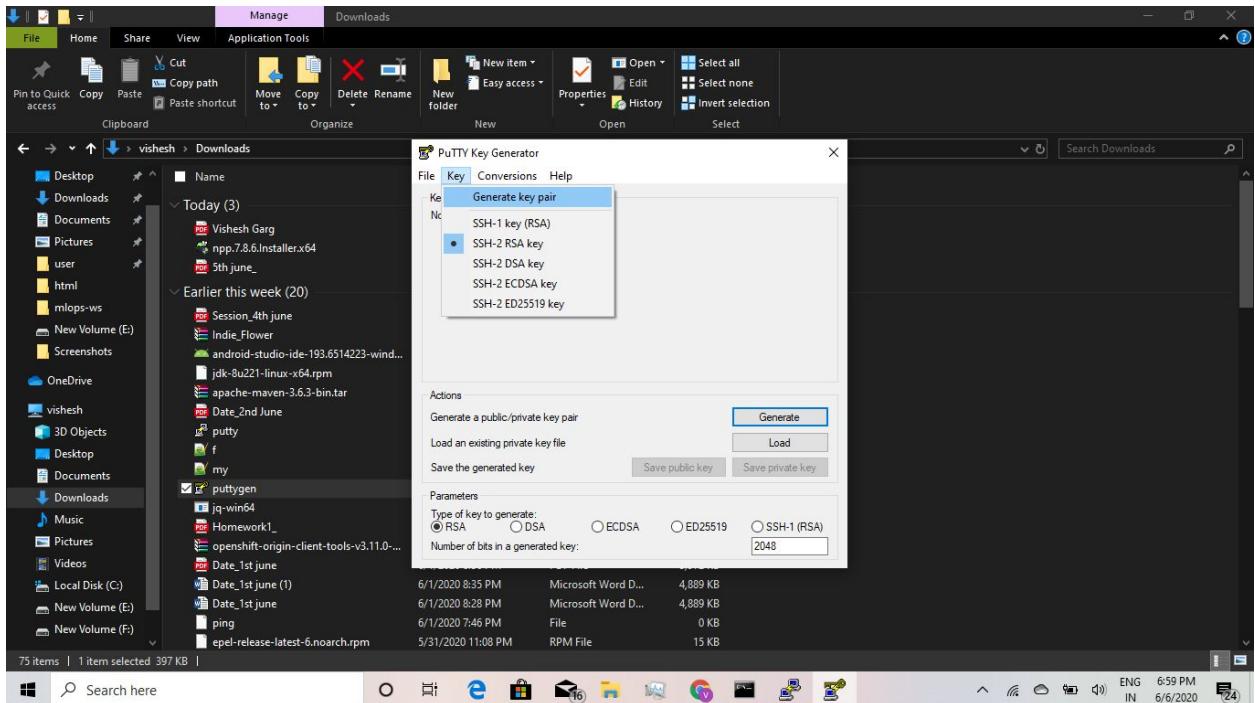
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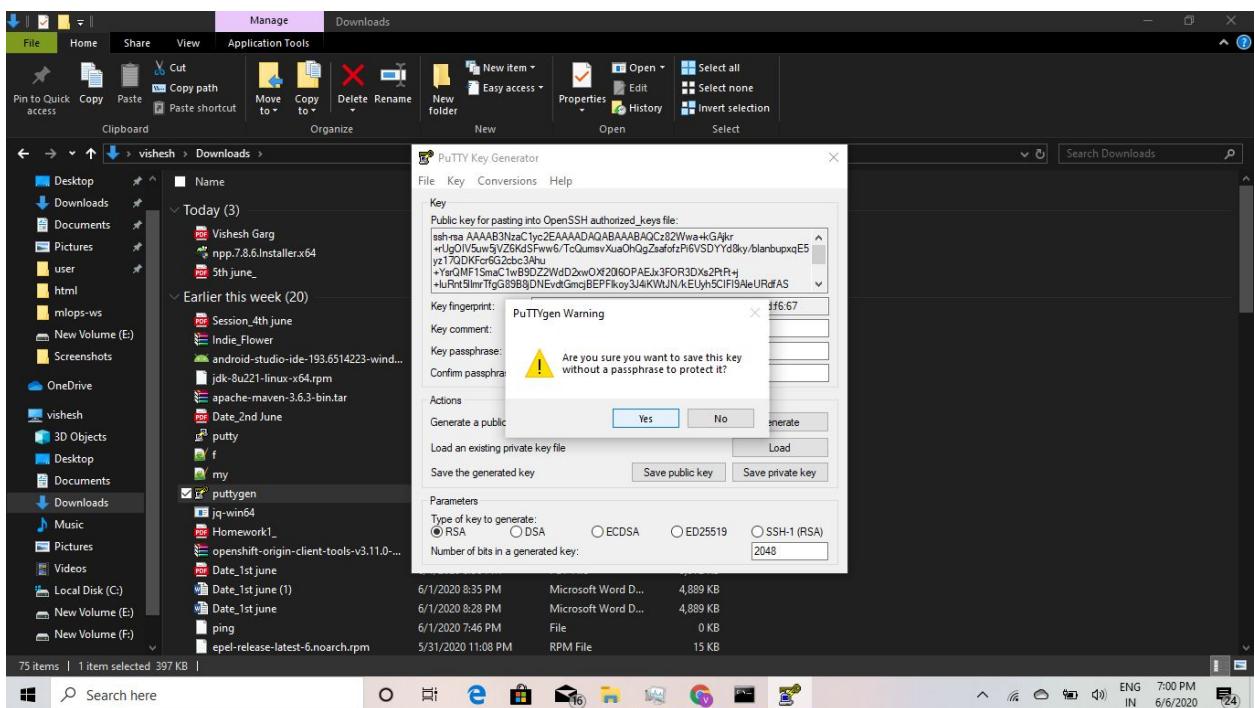
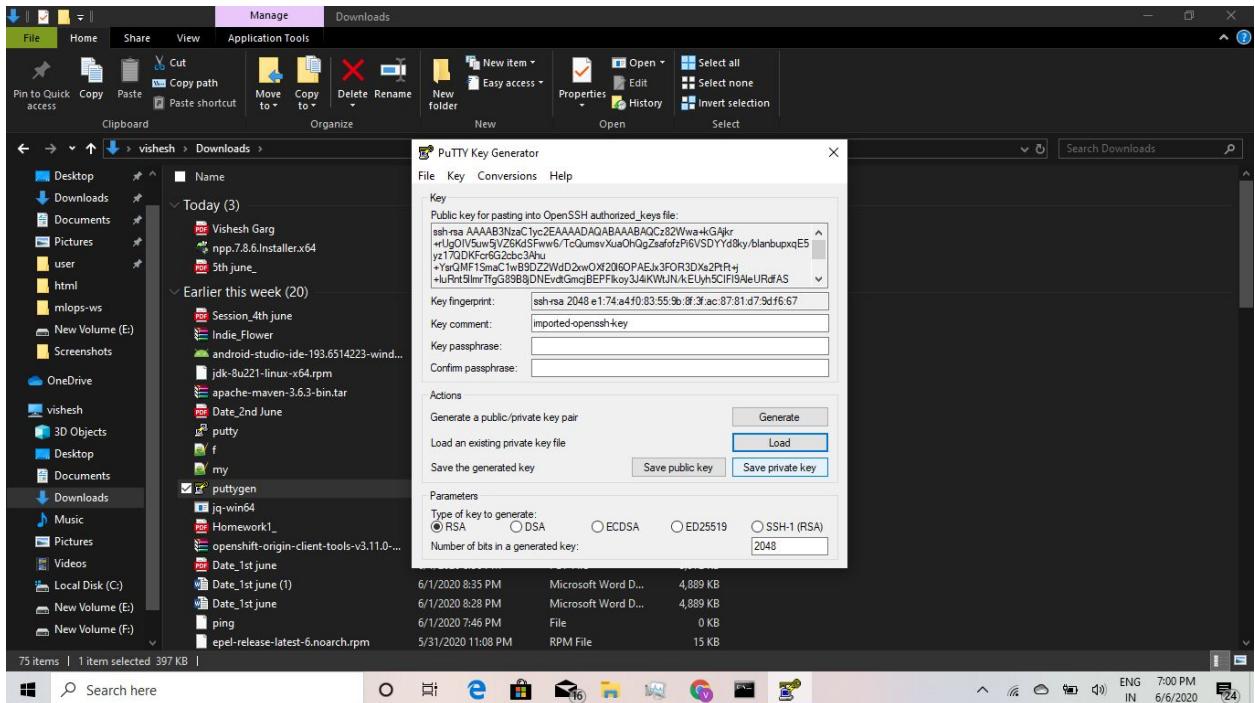
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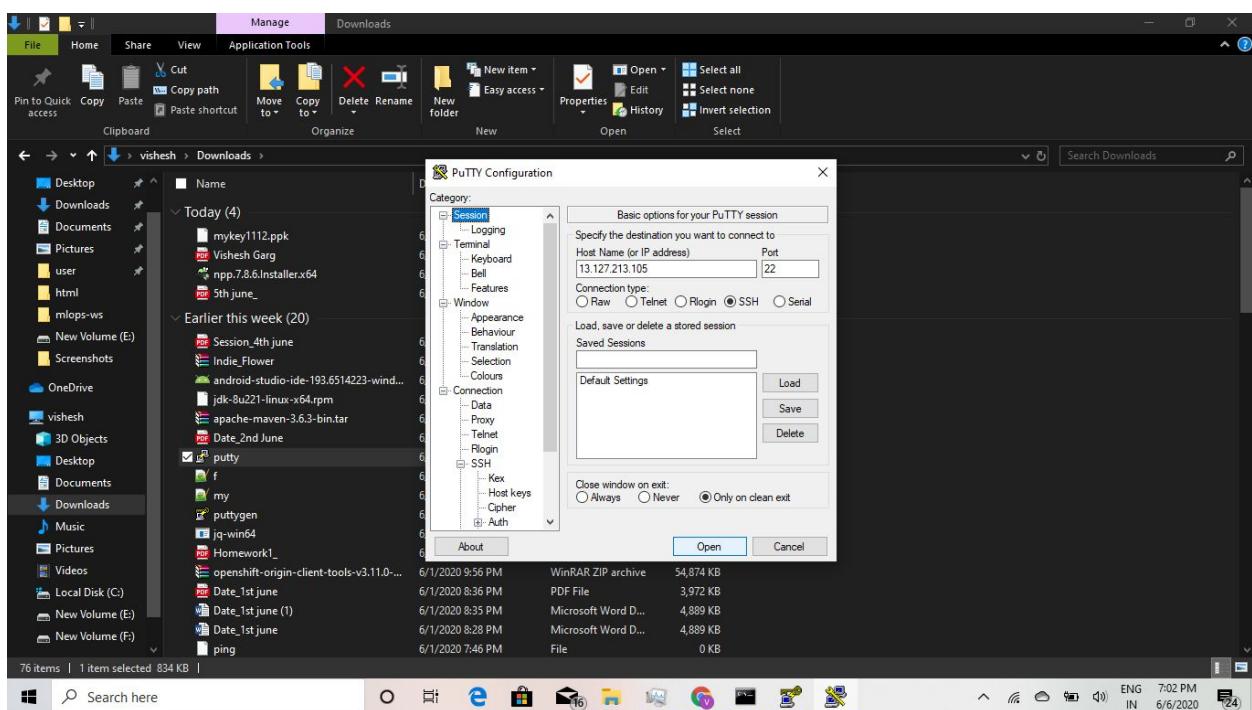
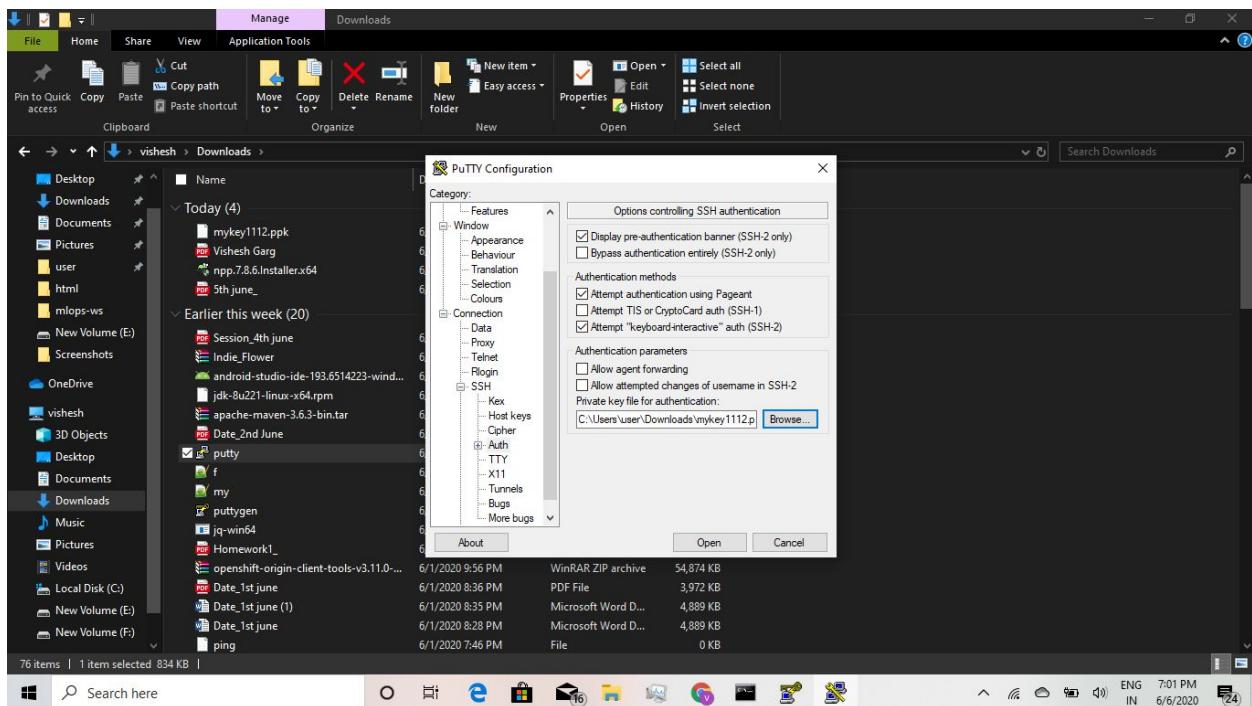
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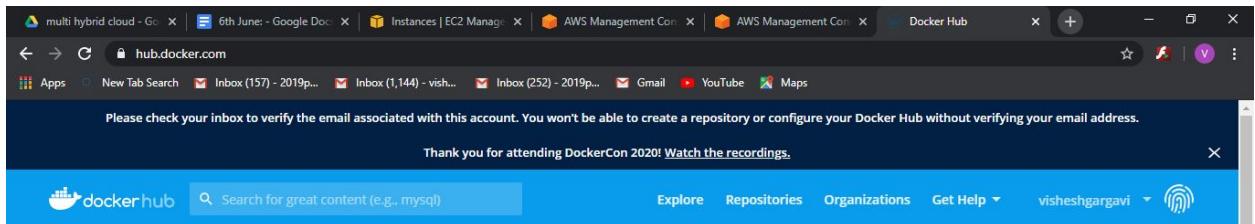
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```
ec2-user@ip-172-31-32-92:~  
login as: ec2-user  
Authenticating with public key "imported-openssh-key"  
_ _|_(_|-_) / Amazon Linux 2 AMI  
_ _\_\_|_|_|  
  
https://aws.amazon.com/amazon-linux-2/  
4 package(s) needed for security, out of 8 available  
Run "sudo yum update" to apply all updates.  
[ec2-user@ip-172-31-32-92 ~]8
```



```
Sending request...  
[root@ip-172-31-32-92 ~]# yum install docker
```

Loaded plugins: extras\_suggestions, langpacks, priorities, update-motd  
Resolving Dependencies  
--> Running transaction check  
---> Package docker.x86\_64 0:19.03.6ce-4.amzn2 will be installed  
--> Processing Dependency: runc >= 1.0.0 for package: docker-19.03.6ce-4.amzn2.x86\_64

```
--> Processing Dependency: containerd >= 1.3.2 for package:  
docker-19.03.6ce-4.amzn2.x86_64  
--> Processing Dependency: pigz for package: docker-19.03.6ce-4.amzn2.x86_64  
--> Processing Dependency: libcgroup for package: docker-19.03.6ce-4.amzn2.x86_64  
--> Running transaction check  
---> Package containerd.x86_64 0:1.3.2-1.amzn2 will be installed  
---> Package libcgroup.x86_64 0:0.41-21.amzn2 will be installed  
---> Package pigz.x86_64 0:2.3.4-1.amzn2.0.1 will be installed  
---> Package runc.x86_64 0:1.0.0-0.1.20200204.gitdc9208a.amzn2 will be installed  
--> Finished Dependency Resolution
```

## Dependencies Resolved

```
=====
=====
=====
=====
=====
```

## Installing:

```
docker           x86_64          19.03.6ce-4.amzn2  
amzn2extra-docker      37 M
```

## Installing for dependencies:

containerd	x86_64	1.3.2-1.amzn2
amzn2extra-docker	24 M	
libcgroup	x86_64	0.41-21.amzn2
amzn2-core	66 k	
pigz	x86_64	2.3.4-1.amzn2.0.1
amzn2-core	81 k	
runc	x86_64	1.0.0-0.1.20200204.gitdc9208a.amzn2
amzn2extra-docker	2.6 M	

## Transaction Summary

-----  
-----  
-----

## Install 1 Package (+4 Dependent packages)

Total download size: 65 M

Installed size: 271 M

Is this ok [y/d/N]: y

Downloading packages:

```
(1/5): libcgroup-0.41-21.amzn2.x86_64.rpm  
| 66 kB 00:00:00  
(2/5): pigz-2.3.4-1.amzn2.0.1.x86_64.rpm  
| 81 kB 00:00:00  
(3/5): containerd-1.3.2-1.amzn2.x86_64.rpm  
| 24 MB 00:00:00  
(4/5): docker-19.03.6ce-4.amzn2.x86_64.rpm  
| 37 MB 00:00:00  
(5/5): runc-1.0.0-0.1.20200204.gitdc9208a.amzn2.x86_64.rpm  
| 2.6 MB 00:00:00
```

---

---

Total 67 MB/s

| 65 MB 00:00:00

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Installing : runc-1.0.0-0.1.20200204.gitdc9208a.amzn2.x86\_64

1/5

Installing : containerd-1.3.2-1.amzn2.x86\_64

2/5

Installing : libcgroup-0.41-21.amzn2.x86\_64

3/5

Installing : pigz-2.3.4-1.amzn2.0.1.x86\_64

4/5

Installing : docker-19.03.6ce-4.amzn2.x86\_64

5/5

Verifying : docker-19.03.6ce-4.amzn2.x86\_64

1/5

Verifying : containerd-1.3.2-1.amzn2.x86\_64

2/5

Verifying : pigz-2.3.4-1.amzn2.0.1.x86\_64

3/5

Verifying : runc-1.0.0-0.1.20200204.gitdc9208a.amzn2.x86\_64

4/5

Verifying : libcgroup-0.41-21.amzn2.x86\_64

5/5

Installed:

docker.x86\_64 0:19.03.6ce-4.amzn2

Dependency Installed:

```
containerd.x86_64 0:1.3.2-1.amzn2  libcgroup.x86_64 0:0.41-21.amzn2  pigz.x86_64  
0:2.3.4-1.amzn2.0.1  runc.x86_64 0:1.0.0-0.1.20200204.gitdc9208a.amzn2
```

Complete!

```
[root@ip-172-31-32-92 ~]# service docker start  
Redirecting to /bin/systemctl start docker.service  
[root@ip-172-31-32-92 ~]# chkconfig docker on  
Note: Forwarding request to 'systemctl enable docker.service'.  
Created symlink from /etc/systemd/system/multi-user.target.wants/docker.service to  
/usr/lib/systemd/system/docker.service.  
[root@ip-172-31-32-92 ~]# docker ps  
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS  
PORTS              NAMES  
[root@ip-172-31-32-92 ~]# docker images  
REPOSITORY          TAG                 IMAGE ID          CREATED           SIZE  
[root@ip-172-31-32-92 ~]# docker pull vimal13/apache-webserver-php  
Using default tag: latest  
latest: Pulling from vimal13/apache-webserver-php  
74f0853ba93b: Pull complete  
7aa70b934c32: Pull complete  
2d68deff9aaf: Pull complete  
Digest: sha256:faed0a5afaf9f04b6915d73f7247f6f5a71db9274ca44118d38f4601c0080a91  
Status: Downloaded newer image for vimal13/apache-webserver-php:latest  
docker.io/vimal13/apache-webserver-php:latest  
[root@ip-172-31-32-92 ~]# docker container run -it --name web1  
vimal13/apache-webserver-php  
AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using  
172.17.0.2. Set the 'ServerName' directive globally to suppress this message  
^[[A^C[root@ip-172-31-32-92 ~]# docker rm -f web1  
web1  
[root@ip-172-31-32-92 ~]# docker container run -dit --name web1  
vimal13/apache-webserver-php  
f943266a6d86be702fe9322f194c6fd80bf06bf2f8346f1064ee5f218942250d  
[root@ip-172-31-32-92 ~]# docker ps  
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS  
PORTS              NAMES  
f943266a6d86        vimal13/apache-webserver-php   "/usr/sbin/httpd -DF..."   42 seconds ago  
Up 41 seconds       80/tcp              web1  
[root@ip-172-31-32-92 ~]# docker inspect  
"docker inspect" requires at least 1 argument.  
See 'docker inspect --help'.
```

Usage: docker inspect [OPTIONS] NAME|ID [NAME|ID...]

Return low-level information on Docker objects

```
[root@ip-172-31-32-92 ~]# docker inspect web1
```

```
[  
  {  
    "Id": "f943266a6d86be702fe9322f194c6fd80bf06bf2f8346f1064ee5f218942250d",  
    "Created": "2020-06-06T13:40:07.348590328Z",  
    "Path": "/usr/sbin/httpd",  
    "Args": [  
      "-DFOREGROUND"  
    ],  
    "State": {  
      "Status": "running",  
      "Running": true,  
      "Paused": false,  
      "Restarting": false,  
      "OOMKilled": false,  
      "Dead": false,  
      "Pid": 4486,  
      "ExitCode": 0,  
      "Error": "",  
      "StartedAt": "2020-06-06T13:40:07.844054975Z",  
      "FinishedAt": "0001-01-01T00:00:00Z"  
    },  
    "Image":  
    "sha256:05774ad1cd23208820093998ac637198b6fdc1c23e1dd72dbae70c53beb13d04",  
    "ResolvConfPath":  
    "/var/lib/docker/containers/f943266a6d86be702fe9322f194c6fd80bf06bf2f8346f1064ee5f218942  
250d/resolv.conf",  
    "HostnamePath":  
    "/var/lib/docker/containers/f943266a6d86be702fe9322f194c6fd80bf06bf2f8346f1064ee5f218942  
250d/hostname",  
    "HostsPath":  
    "/var/lib/docker/containers/f943266a6d86be702fe9322f194c6fd80bf06bf2f8346f1064ee5f218942  
250d/hosts",  
    "LogPath":  
    "/var/lib/docker/containers/f943266a6d86be702fe9322f194c6fd80bf06bf2f8346f1064ee5f218942  
250d/f943266a6d86be702fe9322f194c6fd80bf06bf2f8346f1064ee5f218942250d-json.log",  
    "Name": "/web1",  
    "RestartCount": 0,  
    "Driver": "overlay2",  
    "Platform": "linux",  
  }  
]
```

```
"MountLabel": "",  
"ProcessLabel": "",  
"AppArmorProfile": "",  
"ExecIDs": null,  
"HostConfig": {  
    "Binds": null,  
    "ContainerIDFile": "",  
    "LogConfig": {  
        "Type": "json-file",  
        "Config": {}  
    },  
    "NetworkMode": "default",  
    "PortBindings": {},  
    "RestartPolicy": {  
        "Name": "no",  
        "MaximumRetryCount": 0  
    },  
    "AutoRemove": false,  
    "VolumeDriver": "",  
    "VolumesFrom": null,  
    "CapAdd": null,  
    "CapDrop": null,  
    "Capabilities": null,  
    "Dns": [],  
    "DnsOptions": [],  
    "DnsSearch": [],  
    "ExtraHosts": null,  
    "GroupAdd": null,  
    "IpcMode": "private",  
    "Cgroup": "",  
    "Links": null,  
    "OomScoreAdj": 0,  
    "PidMode": "",  
    "Privileged": false,  
    "PublishAllPorts": false,  
    " ReadonlyRootfs": false,  
    "SecurityOpt": null,  
    "UTSMode": "",  
    "UserNsMode": "",  
    "ShmSize": 67108864,  
    "Runtime": "runc",  
    "ConsoleSize": [  
        0,
```

```
        0
    ],
    "Isolation": "",
    "CpuShares": 0,
    "Memory": 0,
    "NanoCpus": 0,
    "CgroupParent": "",
    "BlkioWeight": 0,
    "BlkioWeightDevice": [],
    "BlkioDeviceReadBps": null,
    "BlkioDeviceWriteBps": null,
    "BlkioDeviceReadIOps": null,
    "BlkioDeviceWriteIOps": null,
    "CpuPeriod": 0,
    "CpuQuota": 0,
    "CpuRealtimePeriod": 0,
    "CpuRealtimeRuntime": 0,
    "CpusetCpus": "",
    "CpusetMems": "",
    "Devices": [],
    "DeviceCgroupRules": null,
    "DeviceRequests": null,
    "KernelMemory": 0,
    "KernelMemoryTCP": 0,
    "MemoryReservation": 0,
    "MemorySwap": 0,
    "MemorySwappiness": null,
    "OomKillDisable": false,
    "PidsLimit": null,
    "Ulimits": [
        {
            "Name": "nofile",
            "Hard": 4096,
            "Soft": 1024
        }
    ],
    "CpuCount": 0,
    "CpuPercent": 0,
    "IOMaximumIOps": 0,
    "IOMaximumBandwidth": 0,
    "MaskedPaths": [
        "/proc/asound",
        "/proc/acpi",

```

```

        "/proc/kcore",
        "/proc/keys",
        "/proc/latency_stats",
        "/proc/timer_list",
        "/proc/timer_stats",
        "/proc/sched_debug",
        "/proc/scsi",
        "/sys/firmware"
    ],
    " ReadonlyPaths": [
        "/proc/bus",
        "/proc/fs",
        "/proc/irq",
        "/proc/sys",
        "/proc/sysrq-trigger"
    ]
},
"GraphDriver": {
    "Data": {
        "LowerDir": "/var/lib/docker/overlay2/dd0c84d881ce96ac2fefb7dcndef540571b60847e5d3999428f9ad2f443
2dc01-init/diff:/var/lib/docker/overlay2/c33014b54b08c606646256c7e43df9b8a9834fb96abf5113
9e2dc49762bb21b0/diff:/var/lib/docker/overlay2/b6bffa6349ed469acb3fa1dcfb79ab132e9d9aaa
9cbdbdbbf51c7cc4dd01f1a1/diff:/var/lib/docker/overlay2/d9ce7dfdc402a795a86e74a46a68fe88
20b04d6a031eba1d5ba2e7c220102d0a/diff",
        "MergedDir": "/var/lib/docker/overlay2/dd0c84d881ce96ac2fefb7dcndef540571b60847e5d3999428f9ad2f443
2dc01/merged",
        "UpperDir": "/var/lib/docker/overlay2/dd0c84d881ce96ac2fefb7dcndef540571b60847e5d3999428f9ad2f443
2dc01/diff",
        "WorkDir": "/var/lib/docker/overlay2/dd0c84d881ce96ac2fefb7dcndef540571b60847e5d3999428f9ad2f443
2dc01/work"
    },
    "Name": "overlay2"
},
"Mounts": [],
"Config": {
    "Hostname": "f943266a6d86",
    "Domainname": "",
    "User": "",
    "AttachStdin": false,
}

```

```
"AttachStdout": false,  
"AttachStderr": false,  
"ExposedPorts": {  
    "80/tcp": {}  
},  
"Tty": true,  
"OpenStdin": true,  
"StdinOnce": false,  
"Env": [  
    "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"  
],  
"Cmd": [  
    "/usr/sbin/httpd",  
    "-DFOREGROUND"  
],  
"Image": "vimal13/apache-webserver-php",  
"Volumes": null,  
"WorkingDir": "",  
"Entrypoint": null,  
"OnBuild": null,  
"Labels": {  
    "build-date": "20170801",  
    "license": "GPLv2",  
    "name": "CentOS Base Image",  
    "vendor": "CentOS"  
}  
,  
"NetworkSettings": {  
    "Bridge": "",  
    "SandboxID":  
"0067ce2b164a2808746df701b1aa5b49951333aca56ef04ab9f94c684b235181",  
    "HairpinMode": false,  
    "LinkLocalIPv6Address": "",  
    "LinkLocalIPv6PrefixLen": 0,  
    "Ports": {  
        "80/tcp": null  
    },  
    "SandboxKey": "/var/run/docker/netns/0067ce2b164a",  
    "SecondaryIPAddresses": null,  
    "SecondaryIPv6Addresses": null,  
    "EndpointID":  
"3dcefcc240e578ab82edbfcf431fe73bc046cb9f2224768e3d2b37c60b45e34b9",  
    "Gateway": "172.17.0.1",
```

```

    "GlobalIPv6Address": "",
    "GlobalIPv6PrefixLen": 0,
    "IPAddress": "172.17.0.2",
    "IPPrefixLen": 16,
    "IPv6Gateway": "",
    "MacAddress": "02:42:ac:11:00:02",
    "Networks": {
        "bridge": {
            "IPAMConfig": null,
            "Links": null,
            "Aliases": null,
            "NetworkID": "d35bd4bc5d9c52b3d31048be56ef28765f9602706a412d31aaf08d76fbce492",
            "EndpointID": "3dcefc240e578ab82edbfcf431fe73bc046cb9f2224768e3d2b37c60b45e34b9",
            "Gateway": "172.17.0.1",
            "IPAddress": "172.17.0.2",
            "IPPrefixLen": 16,
            "IPv6Gateway": "",
            "GlobalIPv6Address": "",
            "GlobalIPv6PrefixLen": 0,
            "MacAddress": "02:42:ac:11:00:02",
            "DriverOpts": null
        }
    }
}
]

```

[root@ip-172-31-32-92 ~]# curl 172.17.0.2

```

<body bgcolor='aqua'>
<pre>
```

welcome to vimal web server for testingeth0:

```

flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 172.17.0.2 netmask 255.255.0.0 broadcast 172.17.255.255
    ether 02:42:ac:11:00:02 txqueuelen 0 (Ethernet)
        RX packets 17 bytes 1368 (1.3 KiB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 3 bytes 182 (182.0 B)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536

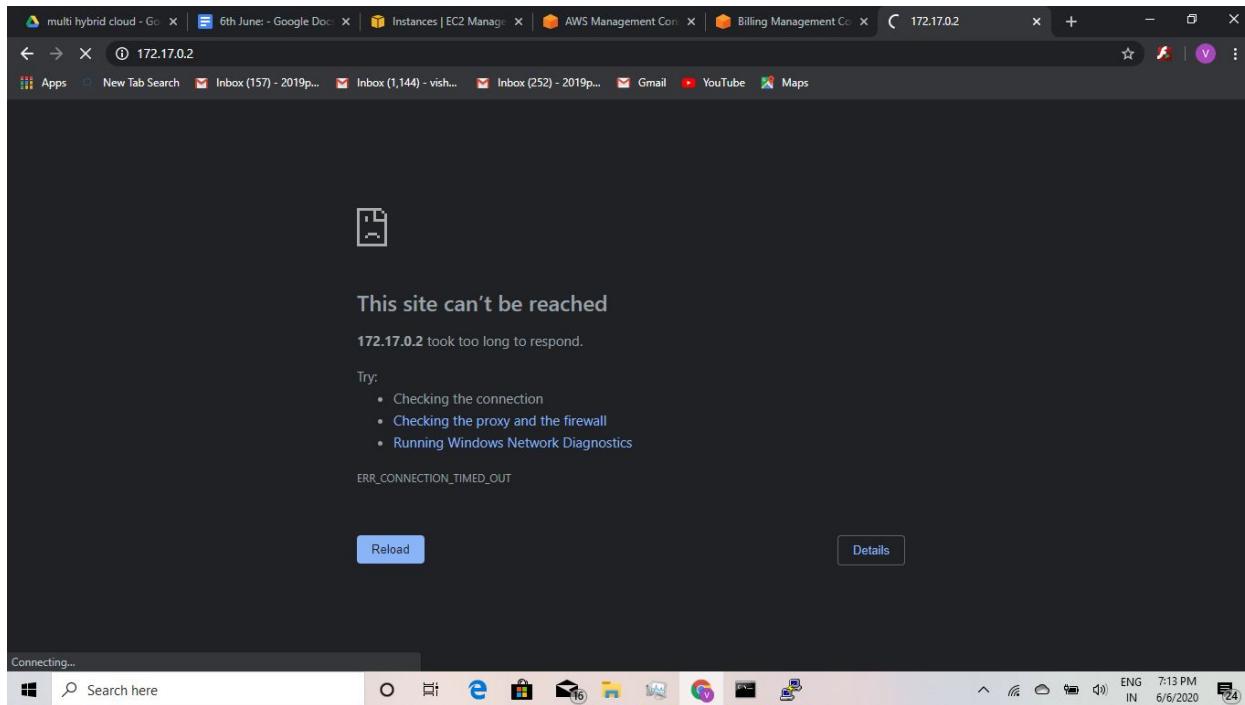
```

    inet 127.0.0.1 netmask 255.0.0.0
```

```
loop txqueuelen 1000 (Local Loopback)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
</pre>
```

```
root@ip-172-31-32-92:~#
},
"NetworkSettings": {
    "Bridge": "",
    "SandboxID": "0067ce2b164a2808746df701bla5b49951333aca56ef04ab9f94c684b235181",
    "HairpinMode": false,
    "LinkLocalIPv6Address": "",
    "LinkLocalIPv6PrefixLen": 0,
    "Ports": {
        "80/tcp": null
    },
    "SandboxKey": "/var/run/docker/netns/0067ce2b164a",
    "SecondaryIPv6Addresses": null,
    "SecondaryIPv6Prefixes": null,
    "EndpointID": "3dcefc240e578ab82edbfcf431fe73bc046cb9f2224768e3d2b37c60b45e34b9",
    "Gateway": "172.17.0.1",
    "GlobalIPv6Address": "",
    "GlobalIPv6PrefixLen": 0,
    "IPAddress": "172.17.0.2",
    "IPPrefixLen": 16,
    "IPv6Gateway": "",
    "MacAddress": "02:42:ac:11:00:02",
    "Networks": {
        "bridge": {
            "IPAMConfig": null,
            "Links": null,
            "Aliases": null,
            "NetworkID": "d35bd4bc5d9c52b3d31048be56ef28765f9602706a41d3laaf08d76fbce492",
            "EndpointID": "3dcefc240e578ab82edbfcf431fe73bc046cb9f2224768e3d2b37c60b45e34b9",
            "Gateway": "172.17.0.1",
            "IPAddress": "172.17.0.2",
            "IPPrefixLen": 16,
            "IPv6Gateway": "",
            "GlobalIPv6Address": "",
            "GlobalIPv6PrefixLen": 0,
            "MacAddress": "02:42:ac:11:00:02",
            "DriverOpts": null
        }
    }
}
[root@ip-172-31-32-92 ~]#
```



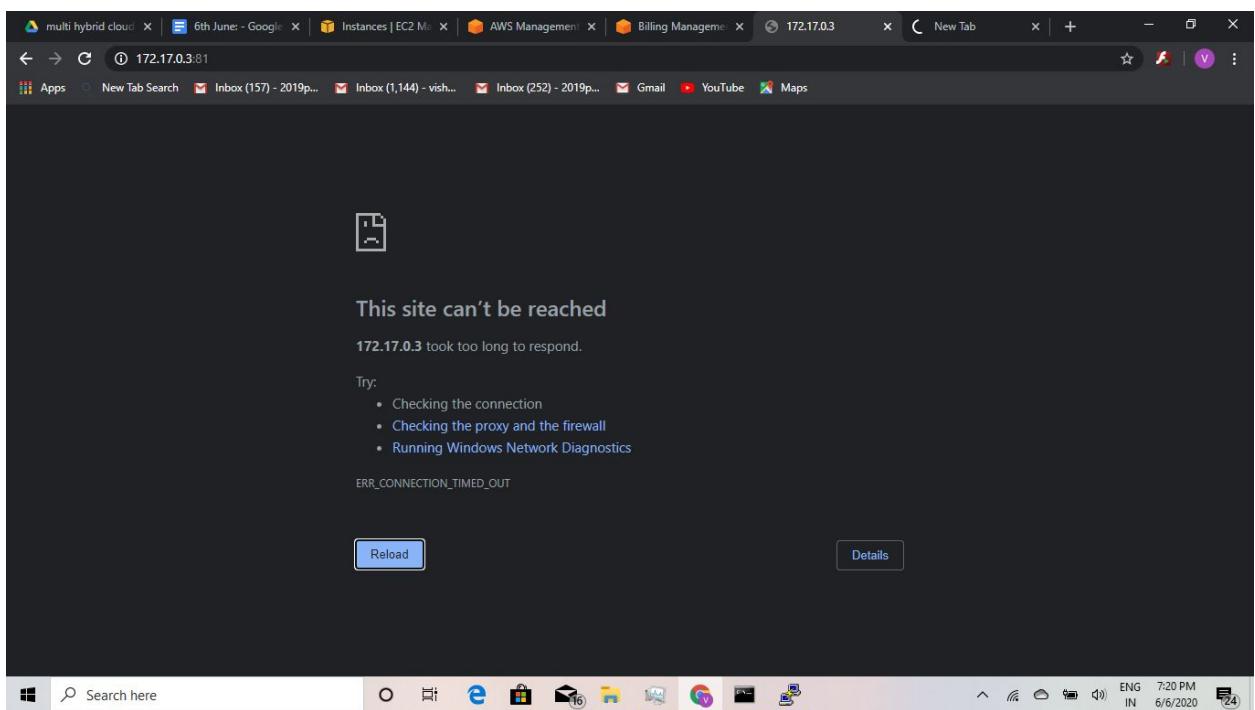
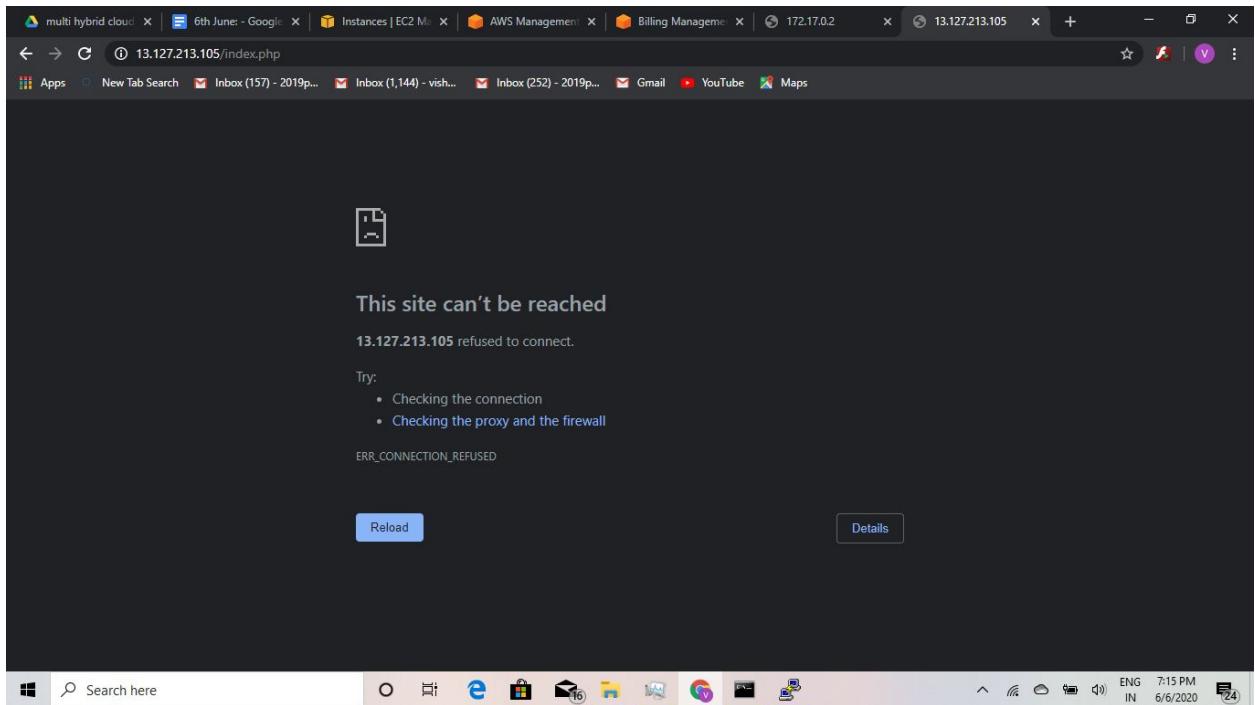
The screenshot shows the AWS Management Console with the URL [ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-00609f6f5e69b8c41](https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-00609f6f5e69b8c41). The page title is "Edit inbound rules". The navigation path is: EC2 > Security Groups > sg-00609f6f5e69b8c41 - launch-wizard-5 > Edit inbound rules.

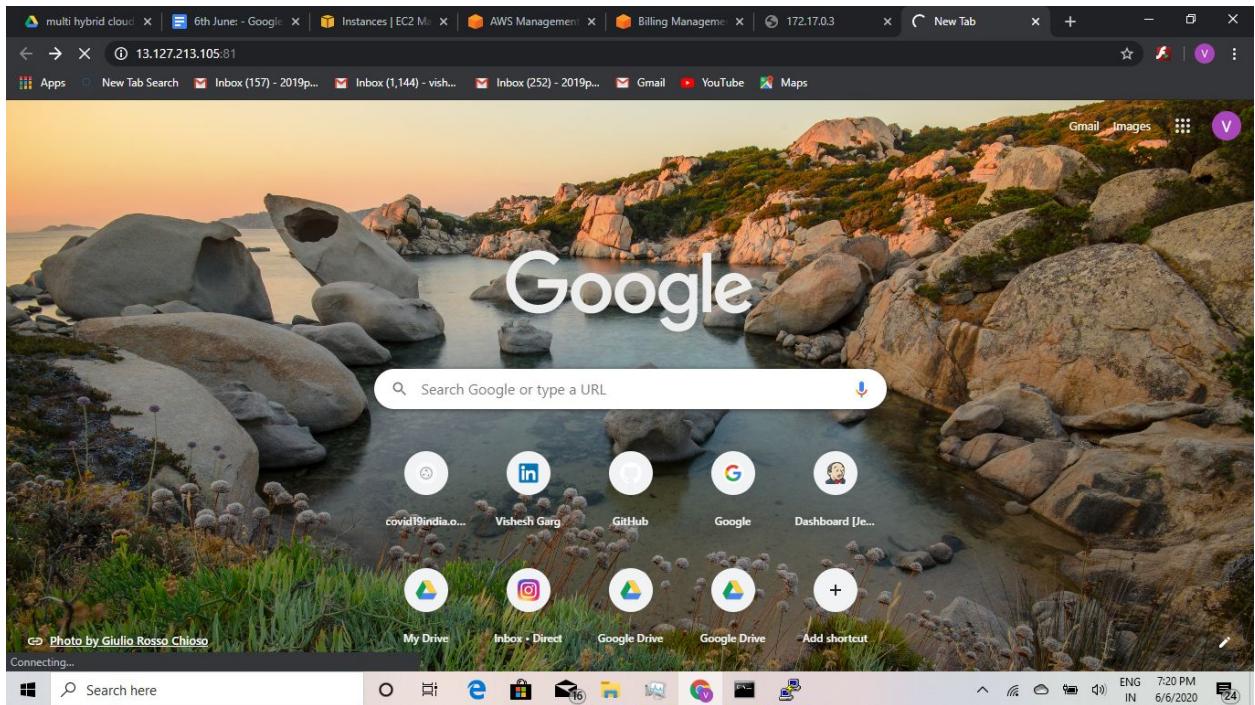
The main content area displays the "Inbound rules" table. It has columns for Type, Protocol, Port range, Source, and Description - optional. There are two rows of rules:

Type	Protocol	Port range	Source	Description - optional
SSH	TCP	22	Custom 0.0.0.0/0	
HTTP	TCP	80	Custom 0.0.0.0/0	

A "Delete" button is present for each row. At the bottom left is a "Add rule" button.

The screenshot shows a Microsoft Edge browser window with the URL [13.127.213.105/index.php](http://13.127.213.105/index.php). The page title is "This site can't be reached". The message states: "13.127.213.105 refused to connect." Below this, there is a "Try:" section with two items: "Checking the connection" and "Checking the proxy and the firewall". The error code "ERR\_CONNECTION\_REFUSED" is displayed. At the bottom are "Reload" and "Details" buttons.





Inbound rules control the incoming traffic that's allowed to reach the instance.

Type	Protocol	Port range	Source	Description - optional
SSH	TCP	22	Custom	0.0.0.0/0
Custom TCP	TCP	81	Anywh...	0.0.0.0/0
HTTP	TCP	80	Custom	0.0.0.0/0

[Add rule](#)



welcome to vimal web server for testing  
eth0: flags=4163 mtu 1500  
 inet 172.17.0.3 netmask 255.255.0.0 broadcast 172.17.255.255  
 ether 02:42:ac:11:00:03 txqueuelen 0 (Ethernet)  
 RX packets 30 bytes 3170 (3.0 Kib)  
 RX errors 0 dropped 0 overruns 0 frame 0  
 TX packets 13 bytes 2171 (2.1 Kib)  
 TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
lo: flags=73 mtu 65536  
 inet 127.0.0.1 netmask 255.0.0.0  
 loop txqueuelen 1000 (Local Loopback)  
 RX packets 0 bytes 0 (0.0 B)  
 RX errors 0 dropped 0 overruns 0 frame 0  
 TX packets 0 bytes 0 (0.0 B)  
 TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```
[root@ip-172-31-32-92 ~]# docker run -dit --name web2 -p 81:80  
vimal13/apache-webserver-php  
49df77b8a1a9a36926147d60c8816624fb87caaf36ae8ca417bbcf8b194450b8
```

```
[root@ip-172-31-32-92 ~]# docker inspect web2
```

```
[  
 {  
   "Id": "49df77b8a1a9a36926147d60c8816624fb87caaf36ae8ca417bbcf8b194450b8",  
   "Created": "2020-06-06T13:47:43.873504576Z",  
   "Path": "/usr/sbin/httpd",  
   "Args": [  
     "-DFOREGROUND"  
   ],  
   "State": {  
     "Status": "running",  
     "Running": true,  
     "Paused": false,  
     "Restarting": false,  
     "OOMKilled": false,  
     "Dead": false,  
     "Pid": 4694,  
     "ExitCode": 0,  
     "Error": "",  
     "StartedAt": "2020-06-06T13:47:44.359993905Z",  
     "FinishedAt": "0001-01-01T00:00:00Z"  
   },  
 }
```

```
    "Image":  
    "sha256:05774ad1cd23208820093998ac637198b6fdc1c23e1dd72dbae70c53beb13d04",  
    "ResolvConfPath":  
    "/var/lib/docker/containers/49df77b8a1a9a36926147d60c8816624fb87caaf36ae8ca417bbcf8b1  
94450b8/resolv.conf",  
    "HostnamePath":  
    "/var/lib/docker/containers/49df77b8a1a9a36926147d60c8816624fb87caaf36ae8ca417bbcf8b1  
94450b8/hostname",  
    "HostsPath":  
    "/var/lib/docker/containers/49df77b8a1a9a36926147d60c8816624fb87caaf36ae8ca417bbcf8b1  
94450b8/hosts",  
    "LogPath":  
    "/var/lib/docker/containers/49df77b8a1a9a36926147d60c8816624fb87caaf36ae8ca417bbcf8b1  
94450b8/49df77b8a1a9a36926147d60c8816624fb87caaf36ae8ca417bbcf8b194450b8-json.log"  
,  
    "Name": "/web2",  
    "RestartCount": 0,  
    "Driver": "overlay2",  
    "Platform": "linux",  
    "MountLabel": "",  
    "ProcessLabel": "",  
    "AppArmorProfile": "",  
    "ExecIDs": null,  
    "HostConfig": {  
        "Binds": null,  
        "ContainerIDFile": "",  
        "LogConfig": {  
            "Type": "json-file",  
            "Config": {}  
        },  
        "NetworkMode": "default",  
        "PortBindings": {  
            "80/tcp": [  
                {  
                    "HostIp": "",  
                    "HostPort": "81"  
                }  
            ]  
        },  
        "RestartPolicy": {  
            "Name": "no",  
            "MaximumRetryCount": 0  
        },  
    },  
}
```

```
"AutoRemove": false,  
"VolumeDriver": "",  
"VolumesFrom": null,  
"CapAdd": null,  
"CapDrop": null,  
"Capabilities": null,  
"Dns": [],  
"DnsOptions": [],  
"DnsSearch": [],  
"ExtraHosts": null,  
"GroupAdd": null,  
"IpcMode": "private",  
"Cgroup": "",  
"Links": null,  
"OomScoreAdj": 0,  
"PidMode": "",  
"Privileged": false,  
"PublishAllPorts": false,  
"ReadonlyRootfs": false,  
"SecurityOpt": null,  
"UTSMode": "",  
"UsernsMode": "",  
"ShmSize": 67108864,  
"Runtime": "runc",  
"ConsoleSize": [  
    0,  
    0  
,  
    "Isolation": "",  
    "CpuShares": 0,  
    "Memory": 0,  
    "NanoCpus": 0,  
    "CgroupParent": "",  
    "BlkioWeight": 0,  
    "BlkioWeightDevice": [],  
    "BlkioDeviceReadBps": null,  
    "BlkioDeviceWriteBps": null,  
    "BlkioDeviceReadIOps": null,  
    "BlkioDeviceWriteIOps": null,  
    "CpuPeriod": 0,  
    "CpuQuota": 0,  
    "CpuRealtimePeriod": 0,  
    "CpuRealtimeRuntime": 0,
```

```
"CpusetCpus": "",  
"CpusetMems": "",  
"Devices": [],  
"DeviceCgroupRules": null,  
"DeviceRequests": null,  
"KernelMemory": 0,  
"KernelMemoryTCP": 0,  
"MemoryReservation": 0,  
"MemorySwap": 0,  
"MemorySwappiness": null,  
"OomKillDisable": false,  
"PidsLimit": null,  
"Ulimits": [  
    {  
        "Name": "nofile",  
        "Hard": 4096,  
        "Soft": 1024  
    }  
,  
    "CpuCount": 0,  
    "CpuPercent": 0,  
    "IOMaximumIOPS": 0,  
    "IOMaximumBandwidth": 0,  
    "MaskedPaths": [  
        "/proc/asound",  
        "/proc/acpi",  
        "/proc/kcore",  
        "/proc/keys",  
        "/proc/latency_stats",  
        "/proc/timer_list",  
        "/proc/timer_stats",  
        "/proc/sched_debug",  
        "/proc/scsi",  
        "/sys/firmware"  
    ],  
    " ReadonlyPaths": [  
        "/proc/bus",  
        "/proc/fs",  
        "/proc/irq",  
        "/proc/sys",  
        "/proc/sysrq-trigger"  
    ]  
,  
},
```

```
"GraphDriver": {
    "Data": {
        "LowerDir": "/var/lib/docker/overlay2/c37c63c74c93606470e41dc15ed2fb8fe6ee36cb198a4e8fd6d0c4b62df
ce9bb-init/diff:/var/lib/docker/overlay2/c33014b54b08c606646256c7e43df9b8a9834fb96abf5113
9e2dc49762bb21b0/diff:/var/lib/docker/overlay2/b6bffa6349ed469acb3fa1dcfb79ab132e9d9aaa
9cbdbdbbf51c7cc4dd01f1a1/diff:/var/lib/docker/overlay2/d9ce7dfdc402a795a86e74a46a68fe88
20b04d6a031eba1d5ba2e7c220102d0a/diff",
        "MergedDir": "/var/lib/docker/overlay2/c37c63c74c93606470e41dc15ed2fb8fe6ee36cb198a4e8fd6d0c4b62df
ce9bb/merged",
        "UpperDir": "/var/lib/docker/overlay2/c37c63c74c93606470e41dc15ed2fb8fe6ee36cb198a4e8fd6d0c4b62df
ce9bb/diff",
        "WorkDir": "/var/lib/docker/overlay2/c37c63c74c93606470e41dc15ed2fb8fe6ee36cb198a4e8fd6d0c4b62df
ce9bb/work"
    },
    "Name": "overlay2"
},
"Mounts": [],
"Config": {
    "Hostname": "49df77b8a1a9",
    "Domainname": "",
    "User": "",
    "AttachStdin": false,
    "AttachStdout": false,
    "AttachStderr": false,
    "ExposedPorts": {
        "80/tcp": {}
    },
    "Tty": true,
    "OpenStdin": true,
    "StdinOnce": false,
    "Env": [
        "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
    ],
    "Cmd": [
        "/usr/sbin/httpd",
        "-DFOREGROUND"
    ],
    "Image": "vimal13/apache-webserver-php",
    "Volumes": null,
    "WorkingDir": "/var/www/html"
}
```

```
"WorkingDir": "",  
"Entrypoint": null,  
"OnBuild": null,  
"Labels": {  
    "build-date": "20170801",  
    "license": "GPLv2",  
    "name": "CentOS Base Image",  
    "vendor": "CentOS"  
}  
,  
"NetworkSettings": {  
    "Bridge": "",  
    "SandboxID":  
"72e2c98db78eb0c7b2b9c4a8874a4c872c0b58f634e68b2ed6052d4d7f6c08b3",  
    "HairpinMode": false,  
    "LinkLocalIPv6Address": "",  
    "LinkLocalIPv6PrefixLen": 0,  
    "Ports": {  
        "80/tcp": [  
            {  
                "HostIp": "0.0.0.0",  
                "HostPort": "81"  
            }  
        ]  
    },  
    "SandboxKey": "/var/run/docker/netns/72e2c98db78e",  
    "SecondaryIPAddresses": null,  
    "SecondaryIPv6Addresses": null,  
    "EndpointID":  
"51ab901f83025e58ef491cf96fcce65e0339e299c8f6c754f05afde75a59c3fe",  
    "Gateway": "172.17.0.1",  
    "GlobalIPv6Address": "",  
    "GlobalIPv6PrefixLen": 0,  
    "IPAddress": "172.17.0.3",  
    "IPPrefixLen": 16,  
    "IPv6Gateway": "",  
    "MacAddress": "02:42:ac:11:00:03",  
    "Networks": {  
        "bridge": {  
            "IPAMConfig": null,  
            "Links": null,  
            "Aliases": null,
```

```

        "NetworkID":  

        "d35bd4bc5d9c52b3d31048be56ef28765f9602706a412d31aaf08d76fbce492",  

        "EndpointID":  

        "51ab901f83025e58ef491cf96fcce65e0339e299c8f6c754f05afde75a59c3fe",  

        "Gateway": "172.17.0.1",  

        "IPAddress": "172.17.0.3",  

        "IPPrefixLen": 16,  

        "IPv6Gateway": "",  

        "GlobalIPv6Address": "",  

        "GlobalIPv6PrefixLen": 0,  

        "MacAddress": "02:42:ac:11:00:03",  

        "DriverOpts": null  

    }  

}  

}  

}  

}
]
```

[root@ip-172-31-32-92 ~]# docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED
STATUS	PORTS	NAMES	
49df77b8a1a9	vimal13/apache-webserver-php	/usr/sbin/httpd -DF...	About a minute ago
Up About a minute	0.0.0.0:81->80/tcp	web2	

f943266a6d86 vimal13/apache-webserver-php "/usr/sbin/httpd -DF..." 8 minutes ago

Up 8 minutes 80/tcp web1

[root@ip-172-31-32-92 ~]# docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
PORTS	NAMES			
49df77b8a1a9	vimal13/apache-webserver-php	/usr/sbin/httpd -DF...	16 minutes ago	
Up 16 minutes	0.0.0.0:81->80/tcp	web2		

f943266a6d86 vimal13/apache-webserver-php "/usr/sbin/httpd -DF..." 23 minutes ago

Up 23 minutes 80/tcp web1

[root@ip-172-31-32-92 ~]# docker rm -f web1

web1

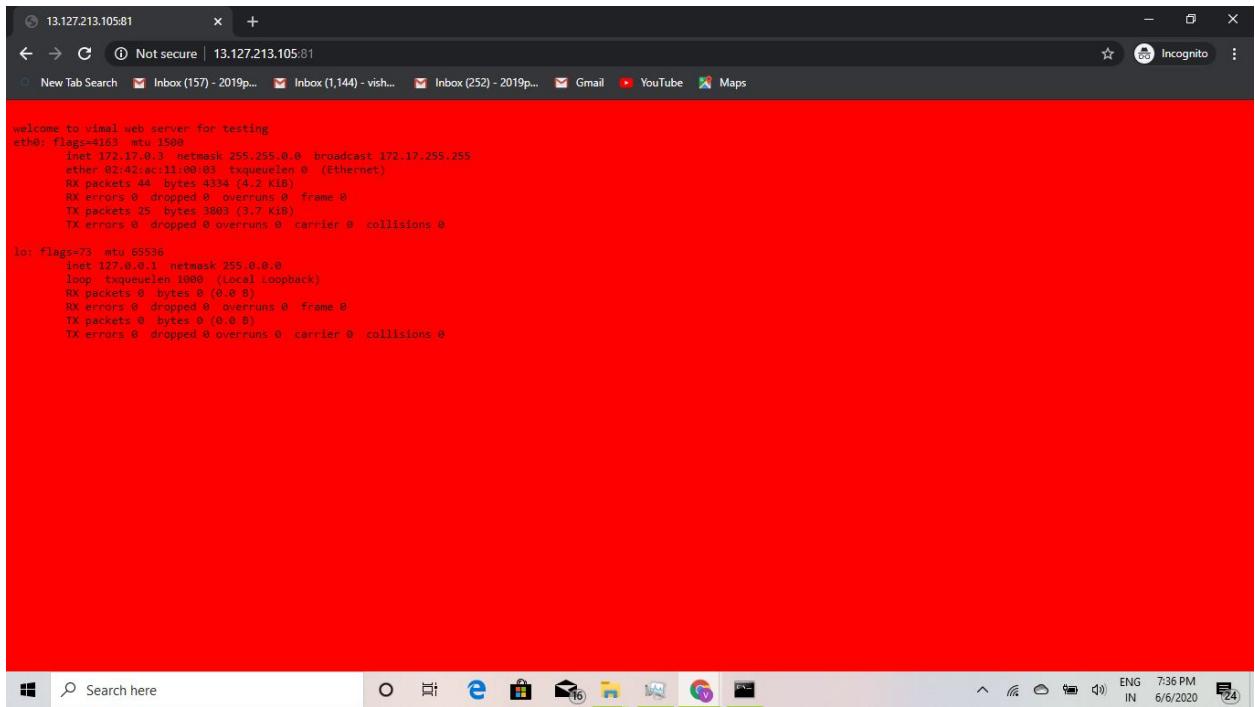
[root@ip-172-31-32-92 ~]# docker exec -it web2 bash

[root@49df77b8a1a9 /]# cd /var/www/html

[root@49df77b8a1a9 html]# ls

index.php

[root@49df77b8a1a9 html]# vi index.php



```
[root@ip-172-31-32-92 ~]# ls
[root@ip-172-31-32-92 ~]# cd /
[root@ip-172-31-32-92 /]# ls
bin boot dev etc home lib lib64 local media mnt opt proc root run sbin srv sys tmp usr
var
```

Screenshot of the AWS Management Console showing the EC2 Management Console interface.

**Left Sidebar:**

- New EC2 Experience
- Tell us what you think
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts New
- Capacity Reservations
- IMAGES**
  - AMIs
  - Bundle Tasks
- ELASTIC BLOCK STORE**
  - Volumes**
  - Snapshots
  - Lifecycle Manager
- NETWORK &**

**Top Bar:**

- Services
- Resource Groups
- Actions
- Create Volume
- Filter by tags and attributes or search by keyword
- 1 to 1 of 1

**Table View:**

Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State
vol-0b0c03c768f730707	8 GiB	gp2	100	snap-0098be2da36a1fea3	June 6, 2020 at 6:37:00 PM UTC+5:30	ap-south-1a	In-use	

**Volume Details View:**

**Volumes: vol-0b0c03c768f730707**

- Description: vol-0b0c03c768f730707
- Status Checks: None
- Monitoring: Not Enabled
- Tags: None

Volume ID	vol-0b0c03c768f730707	Alarm status	None
Size	8 GiB	Snapshot	snap-0098be2da36a1fea3
Created	June 6, 2020 at 6:37:00 PM UTC+5:30	Availability Zone	ap-south-1a
State	in-use	Encryption	Not Encrypted
Attachment Information	i-03e0a1b3b76b8a779:/dev/xvda (attached)	KMS Key ID	

**Bottom Bar:**

- Feedback
- English (US)
- Search here
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- Privacy Policy
- Terms of Use
- ENG 7:40 PM IN 6/6/2020 [24]

Screenshot of the AWS Management Console showing the Create Volume wizard.

**Step 1: General**

**Volume Type:** Standard (gp2)

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

**Availability Zone:** ap-south-1a

**Throughput (MB/s):** Not applicable

**Snapshot ID:** Select a snapshot

**Encryption:**  Encrypt this volume

**Tags:**

Key	(128 characters maximum)	Value	(256 characters maximum)
Name	mypendrive1		

**Add Tag:** Add Tag

**Remaining Tags:** 49 remaining (Up to 50 tags maximum)

**Required Fields:** \* Required

**Buttons:**

- Cancel
- Create Volume

**Bottom Bar:**

- Feedback
- English (US)
- Search here
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- ENG 7:41 PM IN 6/6/2020 [24]

The screenshot shows the AWS Management Console with the EC2 Volumes page open. A context menu is displayed over a volume named 'mypendrive1'. The menu options include: Modify Volume, Create Snapshot, Delete Volume, Attach Volume, Detach Volume, Force Detach Volume, Change Auto-Enable IO Setting, and Add/Edit Tags. The main table lists two volumes:

Name	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State
mypendrive1	1 GiB	gp2	100		June 6, 2020 at 7:4...	ap-south-1a	av
	8 GiB	gp2	100	snap-0098be2...	June 6, 2020 at 6:3...	ap-south-1a	in

```
[root@ip-172-31-32-92 ~]# fdisk -l
Disk /dev/xvda: 8 GiB, 8589934592 bytes, 16777216 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: gpt
Disk identifier: 0D7E094F-1C63-43F2-AC82-3316E992075B
```

Device	Start	End	Sectors	Size	Type
/dev/xvda1	4096	16777182	16773087	8G	Linux filesystem
/dev/xvda128	2048	4095	2048	1M	BIOS boot

Partition table entries are not in disk order.

```
Disk /dev/xvdf: 1 GiB, 1073741824 bytes, 2097152 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
[root@ip-172-31-32-92 ~]# fdisk -l /dev/xvdf
Disk /dev/xvdf: 1 GiB, 1073741824 bytes, 2097152 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
[root@ip-172-31-32-92 ~]# fdisk -l /dev/xvdf1
```

```
fdisk: cannot open /dev/xvdf1: No such file or directory
[root@ip-172-31-32-92 ~]# fdisk /dev/xvdf
```

```
Welcome to fdisk (util-linux 2.30.2).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
```

```
Device does not contain a recognized partition table.
Created a new DOS disklabel with disk identifier 0xd040c56b.
```

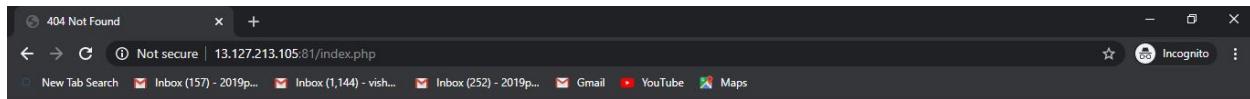
```
Command (m for help): n
Partition type
  p  primary (0 primary, 0 extended, 4 free)
  e  extended (container for logical partitions)
Select (default p): p
Partition number (1-4, default 1):
First sector (2048-2097151, default 2048):
Last sector, +sectors or +size{K,M,G,T,P} (2048-2097151, default 2097151):
```

```
Created a new partition 1 of type 'Linux' and of size 1023 MiB.
```

```
Command (m for help): w
The partition table has been altered.
Calling ioctl() to re-read partition table.
Syncing disks.
```

```
[root@ip-172-31-32-92 ~]# mkfs.ext4 /dev/xvdf1
mke2fs 1.42.9 (28-Dec-2013)
Filesystem label=
OS type: Linux
Block size=4096 (log=2)
Fragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
65536 inodes, 261888 blocks
13094 blocks (5.00%) reserved for the super user
First data block=0
Maximum filesystem blocks=268435456
8 block groups
32768 blocks per group, 32768 fragments per group
8192 inodes per group
Superblock backups stored on blocks:
 32768, 98304, 163840, 229376
```

```
Allocating group tables: done
Writing inode tables: done
Creating journal (4096 blocks): done
Writing superblocks and filesystem accounting information: done
[root@ip-172-31-32-92 ~]# mkdir /web
[root@ip-172-31-32-92 ~]# mount /dev/xvdf1 /web
[root@ip-172-31-32-92 ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        474M   0  474M  0% /dev
tmpfs          492M   0  492M  0% /dev/shm
tmpfs          492M  612K 492M  1% /run
tmpfs          492M   0  492M  0% /sys/fs/cgroup
/dev/xvda1     8.0G  1.9G  6.2G 24% /
tmpfs          99M   0   99M  0% /run/user/1000
overlay        8.0G  1.9G  6.2G 24%
/var/lib/docker/overlay2/c37c63c74c93606470e41dc15ed2fb8fe6ee36cb198a4e8fd6d0c4b62dfc
e9bb/merged
tmpfs          99M   0   99M  0% /run/user/0
/dev/xvdf1    991M  2.6M 922M  1% /web
[root@ip-172-31-32-92 ~]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS
PORTS              NAMES
49df77b8a1a9        vimal13/apache-webserver-php   "/usr/sbin/httpd -DF..."   41 minutes ago
Up 41 minutes       0.0.0.0:81->80/tcp   web2
[root@ip-172-31-32-92 ~]# docker rm -f web2
web2
[root@ip-172-31-32-92 ~]# docker run -dit --name web2 -p 81:80 -v /web:/var/www/html
vimal13/apache-webserver-php
96a157f4f5cd4aa40b4223e47e642f26a77eefe59c75a33230a6bed44e56cf4fd
```

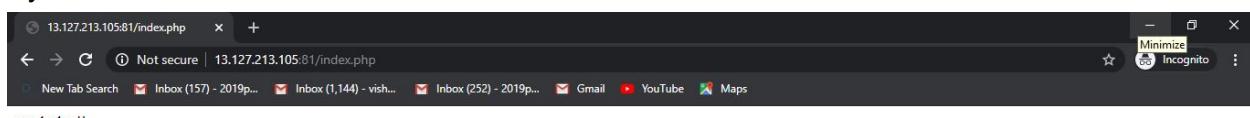


## Not Found

The requested URL /index.php was not found on this server.



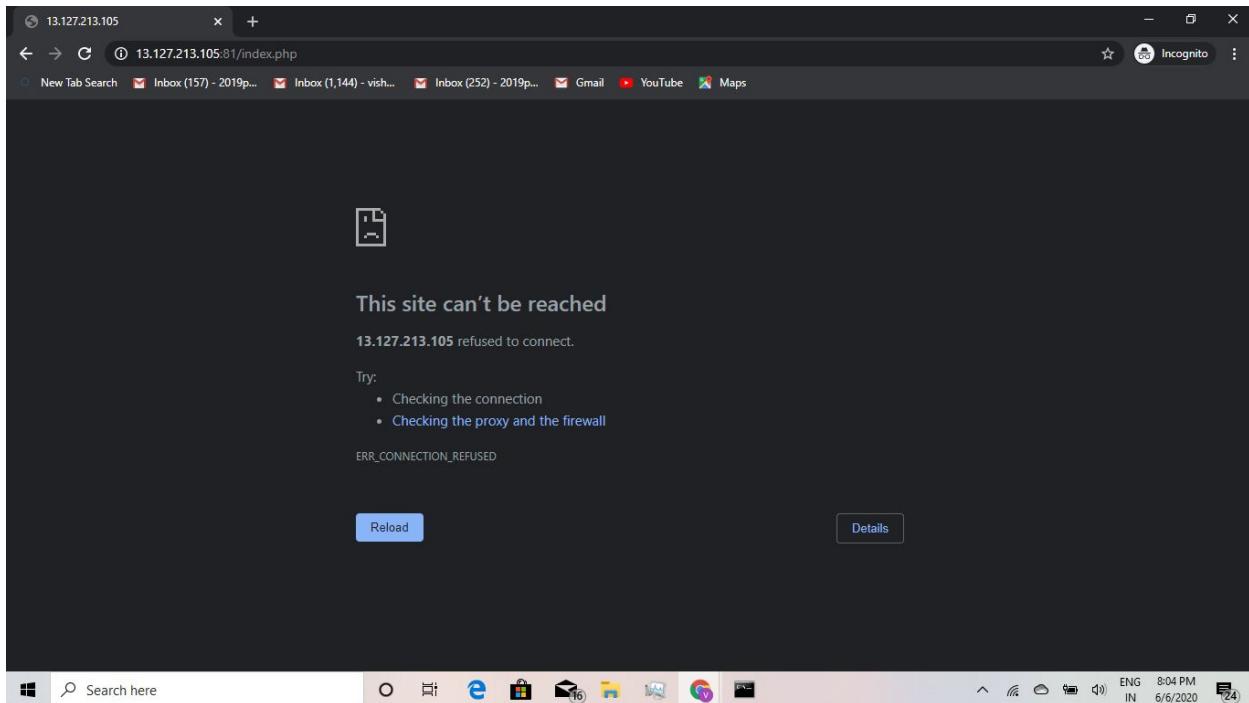
```
[root@ip-172-31-32-92 ~]# cd /web
[root@ip-172-31-32-92 web]# cat > index.php
my docker!!
[root@ip-172-31-32-92 web]# cat index.php
my docker!!
```



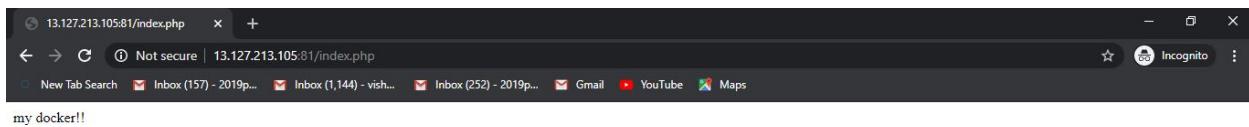
my docker!!



```
[root@ip-172-31-32-92 web]# docker rm -f web2
web2
```

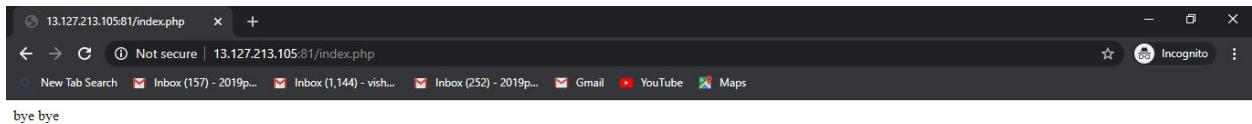


```
[root@ip-172-31-32-92 web]# docker run -dit --name web2 -p 81:80 -v /web:/var/www/html  
vimal13/apache-webserver-php  
d0c5485a2a84764994ea7b8e4695a3e3e4594f91c1b95ba211f1b55f9ea6e99d
```



```
[root@ip-172-31-32-92 web]# ls  
index.php lost+found  
[root@ip-172-31-32-92 web]# cat > index.php  
bye bye
```

```
[root@ip-172-31-32-92 web]# cat index.php  
bye bye
```



```
[root@ip-172-31-32-92 web]# cat > index.php  
<?  
^C  
[root@ip-172-31-32-92 web]# cat > index.php  
<?php  
print "hii";  
[root@ip-172-31-32-92 web]# php index.php  
-bash: php: command not found  
[root@ip-172-31-32-92 web]# yum install php  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
amzn2-core  
| 3.7 kB 00:00:00  
Resolving Dependencies  
--> Running transaction check  
---> Package php.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
--> Processing Dependency: php-cli(x86-64) = 5.4.16-46.amzn2.0.2 for package:  
php-5.4.16-46.amzn2.0.2.x86_64  
--> Processing Dependency: php-common(x86-64) = 5.4.16-46.amzn2.0.2 for package:  
php-5.4.16-46.amzn2.0.2.x86_64  
--> Processing Dependency: httpd-mmn = 20120211x8664 for package:  
php-5.4.16-46.amzn2.0.2.x86_64  
--> Processing Dependency: httpd for package: php-5.4.16-46.amzn2.0.2.x86_64  
--> Running transaction check
```

```
--> Package httpd.x86_64 0:2.4.43-1.amzn2 will be installed
--> Processing Dependency: httpd-tools = 2.4.43-1.amzn2 for package:
httpd-2.4.43-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem = 2.4.43-1.amzn2 for package:
httpd-2.4.43-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.43-1.amzn2.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.43-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.43-1.amzn2.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.43-1.amzn2.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.43-1.amzn2.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.43-1.amzn2.x86_64
--> Package php-cli.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Package php-common.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Processing Dependency: libzip.so.2()(64bit) for package:
php-common-5.4.16-46.amzn2.0.2.x86_64
--> Running transaction check
--> Package apr.x86_64 0:1.6.3-5.amzn2.0.2 will be installed
--> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Processing Dependency: apr-util-bdb(x86-64) = 1.6.1-5.amzn2.0.2 for package:
apr-util-1.6.1-5.amzn2.0.2.x86_64
--> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed
--> Package httpd-filesystem.noarch 0:2.4.43-1.amzn2 will be installed
--> Package httpd-tools.x86_64 0:2.4.43-1.amzn2 will be installed
--> Package libzip010-compat.x86_64 0:0.10.1-9.amzn2.0.5 will be installed
--> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
--> Package mod_http2.x86_64 0:1.15.3-2.amzn2 will be installed
--> Running transaction check
--> Package apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Finished Dependency Resolution
```

Dependencies Resolved

```
=====
=====
=====
Package           Arch      Version
Repository        Size
=====
=====
=====
Installing:
php                  x86_64      5.4.16-46.amzn2.0.2
amzn2-core          1.4 M
```

Installing for dependencies:

apr	x86_64	1.6.3-5.amzn2.0.2
amzn2-core	118 k	
apr-util	x86_64	1.6.1-5.amzn2.0.2
amzn2-core	99 k	
apr-util-bdb	x86_64	1.6.1-5.amzn2.0.2
amzn2-core	19 k	
generic-logos-httdp	noarch	18.0.0-4.amzn2
amzn2-core	19 k	
httdp	x86_64	2.4.43-1.amzn2
amzn2-core	1.3 M	
httdp-filesystem	noarch	2.4.43-1.amzn2
amzn2-core	23 k	
httdp-tools	x86_64	2.4.43-1.amzn2
amzn2-core	87 k	
libzip010-compat	x86_64	0.10.1-9.amzn2.0.5
amzn2-core	30 k	
mailcap	noarch	2.1.41-2.amzn2
amzn2-core	31 k	
mod_http2	x86_64	1.15.3-2.amzn2
amzn2-core	146 k	
php-cli	x86_64	5.4.16-46.amzn2.0.2
amzn2-core	2.8 M	
php-common	x86_64	5.4.16-46.amzn2.0.2
amzn2-core	563 k	

#### Transaction Summary

=====  
=====  
=====  
=====  
Install 1 Package (+12 Dependent packages)

Total download size: 6.6 M

Installed size: 22 M

Is this ok [y/d/N]: y

Downloading packages:

(1/13): apr-util-1.6.1-5.amzn2.0.2.x86\_64.rpm  
| 99 kB 00:00:00  
(2/13): apr-1.6.3-5.amzn2.0.2.x86\_64.rpm  
| 118 kB 00:00:00  
(3/13): apr-util-bdb-1.6.1-5.amzn2.0.2.x86\_64.rpm  
| 19 kB 00:00:00

```
(4/13): generic-logos-httpd-18.0.0-4.amzn2.noarch.rpm  
| 19 kB 00:00:00  
(5/13): httpd-filesystem-2.4.43-1.amzn2.noarch.rpm  
| 23 kB 00:00:00  
(6/13): httpd-2.4.43-1.amzn2.x86_64.rpm  
| 1.3 MB 00:00:00  
(7/13): httpd-tools-2.4.43-1.amzn2.x86_64.rpm  
| 87 kB 00:00:00  
(8/13): mailcap-2.1.41-2.amzn2.noarch.rpm  
| 31 kB 00:00:00  
(9/13): libzip010-compat-0.10.1-9.amzn2.0.5.x86_64.rpm  
| 30 kB 00:00:00  
(10/13): mod_http2-1.15.3-2.amzn2.x86_64.rpm  
| 146 kB 00:00:00  
(11/13): php-5.4.16-46.amzn2.0.2.x86_64.rpm  
| 1.4 MB 00:00:00  
(12/13): php-cli-5.4.16-46.amzn2.0.2.x86_64.rpm  
| 2.8 MB 00:00:00  
(13/13): php-common-5.4.16-46.amzn2.0.2.x86_64.rpm  
| 563 kB 00:00:00
```

---

```
-----  
Total 24 MB/s  
| 6.6 MB 00:00:00  
Running transaction check  
Running transaction test  
Transaction test succeeded  
Running transaction  
  Installing : apr-1.6.3-5.amzn2.0.2.x86_64  
1/13  
  Installing : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64  
2/13  
  Installing : apr-util-1.6.1-5.amzn2.0.2.x86_64  
3/13  
  Installing : httpd-tools-2.4.43-1.amzn2.x86_64  
4/13  
  Installing : generic-logos-httpd-18.0.0-4.amzn2.noarch  
5/13  
  Installing : mailcap-2.1.41-2.amzn2.noarch  
6/13  
  Installing : libzip010-compat-0.10.1-9.amzn2.0.5.x86_64  
7/13
```

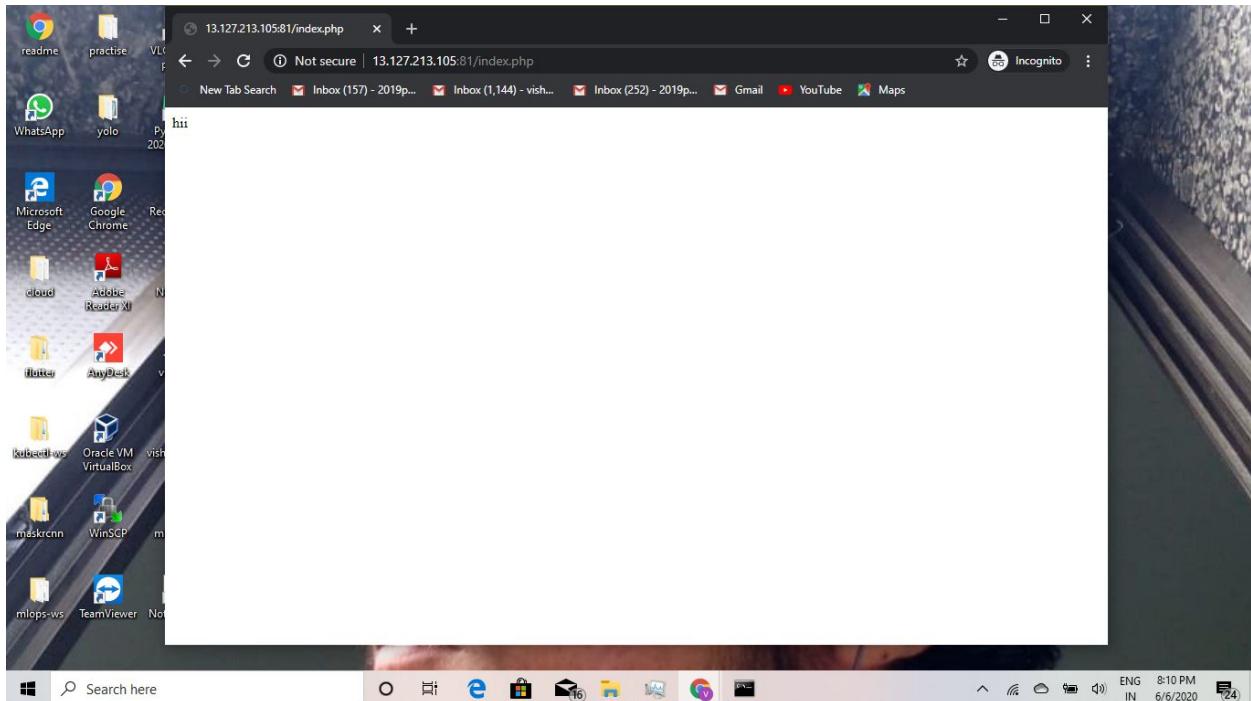
Installing : php-common-5.4.16-46.amzn2.0.2.x86\_64  
8/13  
Installing : php-cli-5.4.16-46.amzn2.0.2.x86\_64  
9/13  
Installing : httpd-filesystem-2.4.43-1.amzn2.noarch  
10/13  
Installing : mod\_http2-1.15.3-2.amzn2.x86\_64  
11/13  
Installing : httpd-2.4.43-1.amzn2.x86\_64  
12/13  
Installing : php-5.4.16-46.amzn2.0.2.x86\_64  
13/13  
Verifying : apr-util-1.6.1-5.amzn2.0.2.x86\_64  
1/13  
Verifying : httpd-filesystem-2.4.43-1.amzn2.noarch  
2/13  
Verifying : apr-util-bdb-1.6.1-5.amzn2.0.2.x86\_64  
3/13  
Verifying : php-cli-5.4.16-46.amzn2.0.2.x86\_64  
4/13  
Verifying : httpd-2.4.43-1.amzn2.x86\_64  
5/13  
Verifying : mod\_http2-1.15.3-2.amzn2.x86\_64  
6/13  
Verifying : php-5.4.16-46.amzn2.0.2.x86\_64  
7/13  
Verifying : libzip010-compat-0.10.1-9.amzn2.0.5.x86\_64  
8/13  
Verifying : apr-1.6.3-5.amzn2.0.2.x86\_64  
9/13  
Verifying : mailcap-2.1.41-2.amzn2.noarch  
10/13  
Verifying : generic-logos-httpd-18.0.0-4.amzn2.noarch  
11/13  
Verifying : php-common-5.4.16-46.amzn2.0.2.x86\_64  
12/13  
Verifying : httpd-tools-2.4.43-1.amzn2.x86\_64  
13/13

Installed:  
php.x86\_64 0:5.4.16-46.amzn2.0.2

Dependency Installed:

```
apr.x86_64 0:1.6.3-5.amzn2.0.2  apr-util.x86_64 0:1.6.1-5.amzn2.0.2      apr-util-bdb.x86_64  
0:1.6.1-5.amzn2.0.2  generic-logos-htpd.noarch 0:18.0.0-4.amzn2  
htpd.x86_64 0:2.4.43-1.amzn2  httpd-filesystem.noarch 0:2.4.43-1.amzn2  
httpd-tools.x86_64 0:2.4.43-1.amzn2  libzip010-compat.x86_64 0:0.10.1-9.amzn2.0.5  
mailcap.noarch 0:2.1.41-2.amzn2  mod_http2.x86_64 0:1.15.3-2.amzn2      php-cli.x86_64  
0:5.4.16-46.amzn2.0.2  php-common.x86_64 0:5.4.16-46.amzn2.0.2
```

Complete!



>>Incremental change  
snapshot(point in time backup)

The screenshot shows the AWS Management Console with the EC2 service selected. On the left, the navigation pane is open, showing sections like Instances, Images, and Elastic Block Store. Under EBS, the 'Volumes' section is selected. In the main content area, a table lists two volumes: 'mypendrive1' (1 GiB, gp2, 100 IOPS) and another volume (8 GiB, gp2, 100 IOPS). A context menu is open over the first volume, with 'Create Snapshot' highlighted. The menu also includes options like 'Delete Volume', 'Attach Volume', 'Detach Volume', 'Force Detach Volume', 'Change Auto-Enable IO Setting', and 'Add/Edit Tags'. Below the table, a detailed view for 'vol-061c15df0411cdc9b (mypendrive1)' is shown, including its Volume ID, Size, Created date, State, Attachment Information, and various status metrics.

This screenshot shows the 'Create Snapshot' wizard. Step 1, 'Set Details', is displayed. It asks for a 'Volume' selection, which is set to 'vol-061c15df0411cdc9b'. Below this, there's a 'Description' input field and a 'Encryption' dropdown set to 'Not Encrypted'. At the bottom, there are 'Add Tag' and 'Cancel' buttons, along with a note that tags are required.

This screenshot shows the second step of the 'Create Snapshot' wizard. It displays a single tag entry: 'Name' with the value 'mysnapshot'. There is an 'Add Tag' button and a note indicating 49 remaining tags available. At the bottom are 'Cancel' and 'Create Snapshot' buttons.

The screenshot shows the AWS Management Console interface for the EC2 service. The left sidebar includes links for Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, IMAGES (AMIs, Bundle Tasks), ELASTIC BLOCK STORE (Volumes, Snapshots, Lifecycle Manager), and NETWORK & SECURITY. The main content area displays a list of volumes. A context menu is open over the first volume, titled "Modify Volume", with options: Create Snapshot, Delete Volume, Attach Volume, Detach Volume, Force Detach Volume, Change Auto-Enable IO Setting, and Add/Edit Tags. The volume listed is "mypendrive1".

Name	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State
mypendrive1	1 GiB	gp2	100		June 6, 2020 at 7:4...	ap-south-1a	in-
	8 GiB	gp2	100	snap-0098be2...	June 6, 2020 at 6:3...	ap-south-1a	in-

```
[root@ip-172-31-32-92 web]# cat > index.php  
hi first
```

Screenshot of the AWS Management Console showing the EC2 Volumes page. A context menu is open over a volume named 'mypydrive1'. The menu options include:

- Modify Volume
- Create Snapshot
- Delete Volume
- Attach Volume
- Detach Volume**
- Force Detach Volume
- Change Auto-Enable IO Setting
- Add/Edit Tags

The main table lists two volumes:

Name	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State
mypydrive1	1 GiB	gp2	100		June 6, 2020 at 7:4...	ap-south-1a	in-use
	8 GiB	gp2	100	snap-0098be2...	June 6, 2020 at 6:3...	ap-south-1a	in-use

Screenshot of the AWS Management Console showing the EC2 Snapshots page. A context menu is open over a snapshot named 'mysnapshot2'. The menu options include:

- Delete
- Create Volume
- Manage Fast Snapshot Restore
- Create Image
- Copy
- Modify Permissions
- Add/Edit Tags

The main table lists two snapshots:

Name	Description	Status	Started
mysnapshot		completed	June 6, 2020 at 8:25:11 PM
mysnapshot2		completed	June 6, 2020 at 8:30:34 PM

The screenshot shows the AWS EC2 Management Console. A modal window titled "Copy Snapshot" is open, prompting the user to copy a snapshot named "mysnapshot2" to a different region. The "Destination Region" dropdown is set to "Asia Pacific (Mumbai)". The "Description" field contains the text "[Copied snap-08a02231898f7a0d7 from ap-south-1]". There is an unchecked checkbox for "Encrypt this snapshot". At the bottom right of the modal, there are "Cancel" and "Copy" buttons, with "Copy" being the active button.

The screenshot shows the AWS EC2 Management Console. A modal window titled "Create Volume From Snapshot" is open, allowing the creation of a new volume from an existing snapshot. The form includes fields for IOPS (set to 100 / 3000), Availability Zone (set to "ap-south-1a"), Throughput (MB/s) (set to "Not applicable"), and Encryption (unchecked). Below the form is a "Tags" section where a tag named "name" is added with the value "myvolume2". At the bottom right of the modal, there are "Cancel" and "Create Volume" buttons, with "Create Volume" being the active button.

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Elastic IPs New  
Placement Groups New

Create Volume Actions ▾

Modify Volume  
Create Snapshot  
Delete Volume  
**Attach Volume**  
Detach Volume  
Force Detach Volume  
Change Auto-Enable IO Setting  
Add/Edit Tags

Name	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State
mypadrive1	1 GiB	gp2	100	snap-08a02231890f7a0d7	June 6, 2020 at 8:30 PM	ap-south-1a	available
snap-08a02231890f7a0d7	1 GiB	gp2	100		June 6, 2020 at 7:40 PM	ap-south-1a	in-use
snap-0098be2...	8 GiB	gp2	100	snap-0098be2...	June 6, 2020 at 6:30 PM	ap-south-1a	in-use

Volumes: vol-070f83557417896a8

Description Status Checks Monitoring Tags

Volume ID: vol-070f83557417896a8  
Size: 1 GiB  
Created: June 6, 2020 at 8:36:57 PM UTC+5:30  
State: available  
Attachment Information: Volume type: gp2

Alarm status: None  
Snapshot: snap-08a02231890f7a0d7  
Availability Zone: ap-south-1a  
Encryption: Not Encrypted  
KMS Key ID: KMS Key Aliases:

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▼ NETWORK & SECURITY  
Security Groups New  
Elastic IPs New  
Placement Groups New

Create Volume Actions ▾

Filter by tags and attributes or search by keyword

Volumes: vol-070f83557417896a8

Description Status Checks Monitoring Tags

Volume: vol-070f83557417896a8 in ap-south-1a  
Instance: i-03e0a1b3b76b8a779 in ap-south-1a  
Device: /dev/sdg  
Linux Devices: /dev/sdf through /dev/sdp

Note: Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvd internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.

Cancel Attach

Volume type: gp2  
KMS Key Aliases:

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Screenshot of the AWS EC2 Snapshots page. A context menu is open over a snapshot named 'mysnapshot'. The menu options are:

- Delete
- Create Volume
- Manage Fast Snapshot Restore
- Create Image
- Copy
- Modify Permissions
- Add/Edit Tags

The main table shows two completed snapshots:

Name	Description	Status	Created
mysnapshot		completed	June 6, 2020 at 8:25:11 PM
mysnapshot2		completed	June 6, 2020 at 8:30:34 PM

Screenshot of the AWS Volumes page. A context menu is open over a volume named 'mypadrive1'. The menu options are:

- Delete
- Create Volume
- Manage Fast Snapshot Restore
- Create Image
- Copy
- Modify Permissions
- Add/Edit Tags

The main table shows four volumes:

Name	Volume ID	Size	Type	IOPS	Snapshot	Created	Availability Zone	State
vol-03cb8e6ebbf2ff4fe	1 GiB	gp2	100	snap-08a0223...	June 6, 2020 at 8:3...	ap-south-1b	available	
vol-070f83557417896a8	1 GiB	gp2	100	snap-08a0223...	June 6, 2020 at 8:3...	ap-south-1a	in-use	
mypadrive1	1 GiB	gp2	100		June 6, 2020 at 7:4...	ap-south-1a	in-use	
vol-0b0c03c768f730707	8 GiB	gp2	100	snap-0098be2...	June 6, 2020 at 6:3...	ap-south-1a	in-use	

```
[root@ip-172-31-32-92 ~]# cd /web
[root@ip-172-31-32-92 web]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        474M   0  474M  0% /dev
tmpfs          492M   0  492M  0% /dev/shm
tmpfs          492M  684K  492M  1% /run
tmpfs          492M   0  492M  0% /sys/fs/cgroup
```

```
/dev/xvda1    8.0G 1.9G 6.1G 24% /
tmpfs        99M   0  99M  0% /run/user/1000
tmpfs        99M   0  99M  0% /run/user/0
/dev/xvdf1   991M 2.6M 922M  1% /web
overlay      8.0G 1.9G 6.1G 24%
/var/lib/docker/overlay2/42cff117e5180bb622e7c599b6d4aef742d0c17cb7962144f214ce36e30
0db3/merged
```