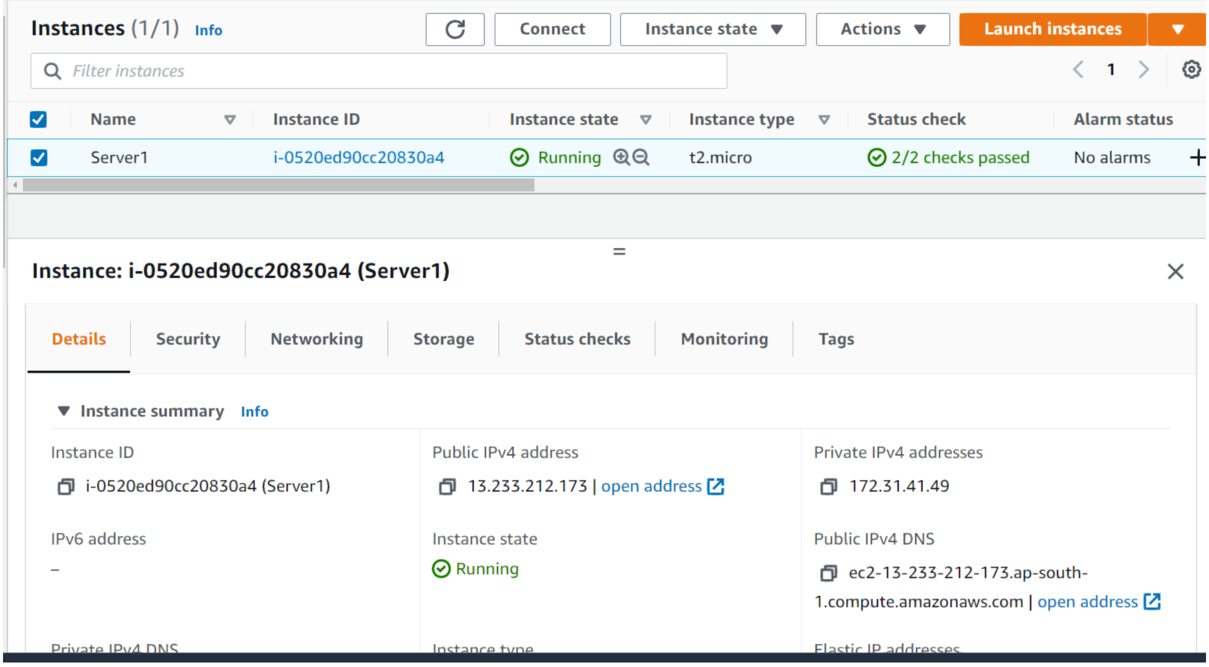
Create a EC2 Amazon Instance



☑	Name	Instance ID	Instance state	Instance type	Status check	Alarm status
☑	Server1	i-0520ed90cc20830a4	Running	t2.micro	2/2 checks passed	No alarms

Instance: i-0520ed90cc20830a4 (Server1)

Instance ID
i-0520ed90cc20830a4 (Server1)

Public IPv4 address
13.233.212.173 | open address

Private IPv4 addresses
172.31.41.49

IPv6 address
–

Instance state
Running

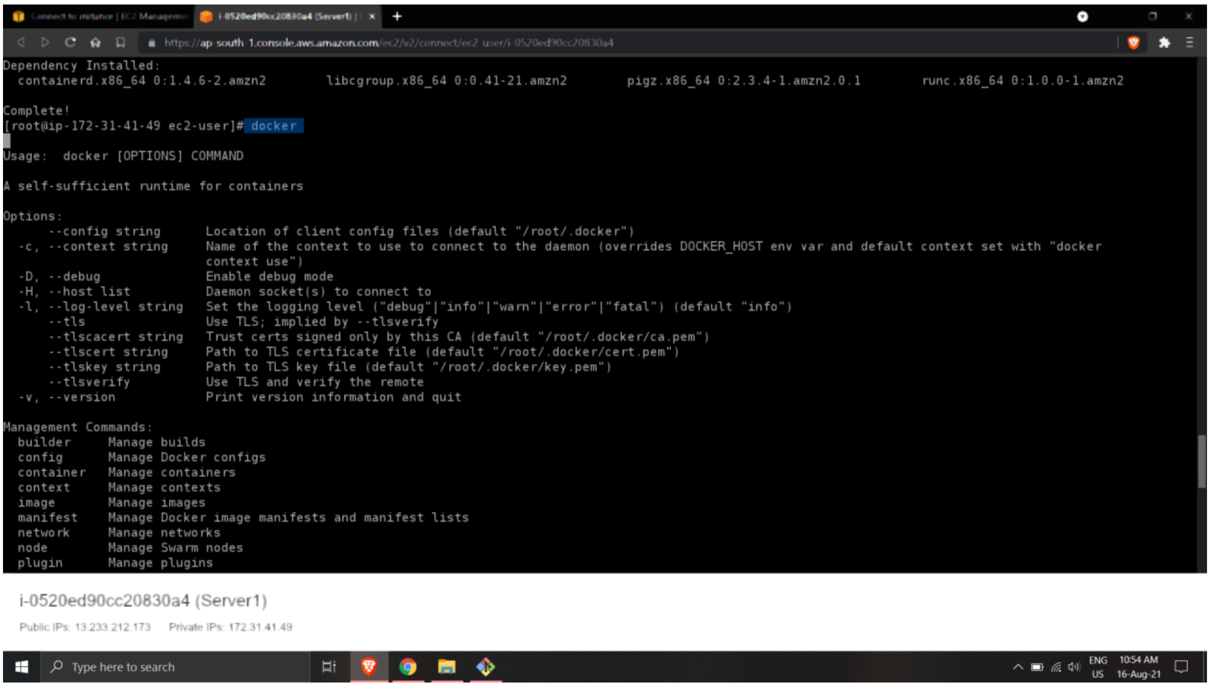
Public IPv4 DNS
ec2-13-233-212-173.ap-south-1.compute.amazonaws.com | open address

Private IPv4 DNS

Instance type

Elastic IP addresses

Install Docker

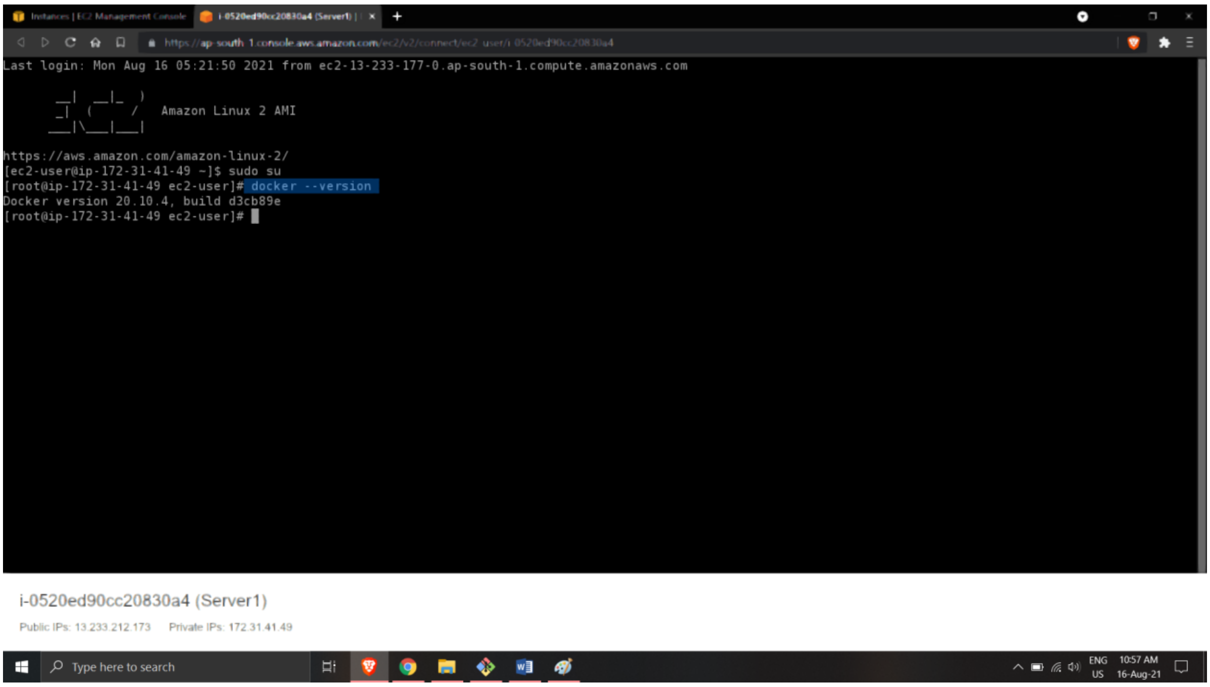

Connect to instance | EC2 Manageme
i-0520ed90cc20830a4 (Server1) |
https://ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0520ed90cc20830a4

```
Dependency Installed:
  containerd.x86_64 0:1.4.6-2.amzn2        libcgroup.x86_64 0:0.41-21.amzn2        pigz.x86_64 0:2.3.4-1.amzn2.0.1        runc.x86_64 0:1.0.0-1.amzn2

Complete!
[root@ip-172-31-41-49 ec2-user]# docker

Usage:  docker [OPTIONS] COMMAND

A self-sufficient runtime for containers

Options:
      --config string      Location of client config files (default "/root/.docker")
  -c, --context string     Name of the context to use to connect to the daemon (overrides DOCKER_HOST env var and default context set with "docker
                           context use")
  -D, --debug              Enable debug mode
  -H, --host list          Daemon socket(s) to connect to
  -l, --log-level string   Set the logging level ("debug"|"info"|"warn"|"error"|"fatal") (default "info")
      --tls                Use TLS; implied by --tlsverify
      --tlscacert string   Trust certs signed only by this CA (default "/root/.docker/ca.pem")
      --tlscert string     Path to TLS certificate file (default "/root/.docker/cert.pem")
      --tlskey string      Path to TLS key file (default "/root/.docker/key.pem")
      --tlsverify          Use TLS and verify the remote
  -v, --version            Print version information and quit

Management Commands:
  builder     Manage builds
  config      Manage Docker configs
  container   Manage containers
  context     Manage contexts
  image       Manage images
  manifest    Manage Docker image manifests and manifest lists
  network     Manage networks
  node        Manage Swarm nodes
  plugin      Manage plugins
```

i-0520ed90cc20830a4 (Server1)

Public IPs: 13.233.212.173   Private IPs: 172.31.41.49

Docker Version



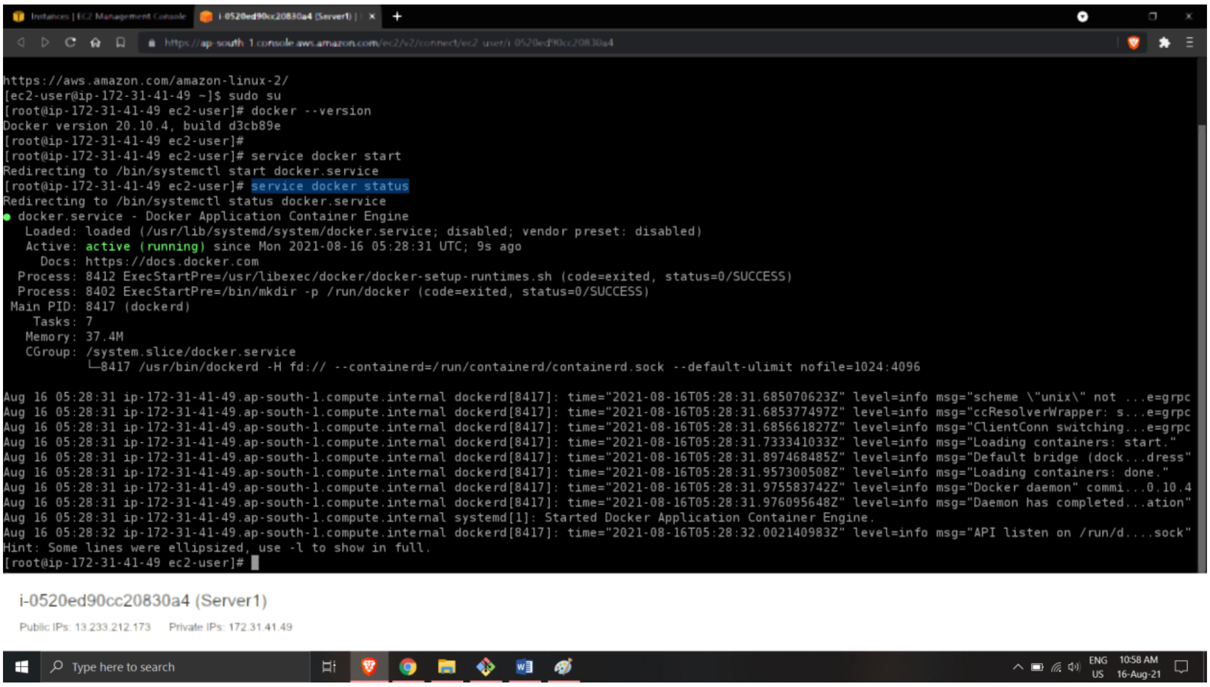
```
Last login: Mon Aug 16 05:21:50 2021 from ec2-13-233-177-0.ap-south-1.compute.amazonaws.com

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

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-41-49 ~]$ sudo su
[root@ip-172-31-41-49 ec2-user]# docker --version
Docker version 20.10.4, build d3cb89e
[root@ip-172-31-41-49 ec2-user]# 
```

i-0520ed90cc20830a4 (Server1)

Public IPs: 13.233.212.173   Private IPs: 172.31.41.49

https://ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0520ed90cc20830a4
Type here to search
ENG
US
10:57 AM
16-Aug-21

Docker service status



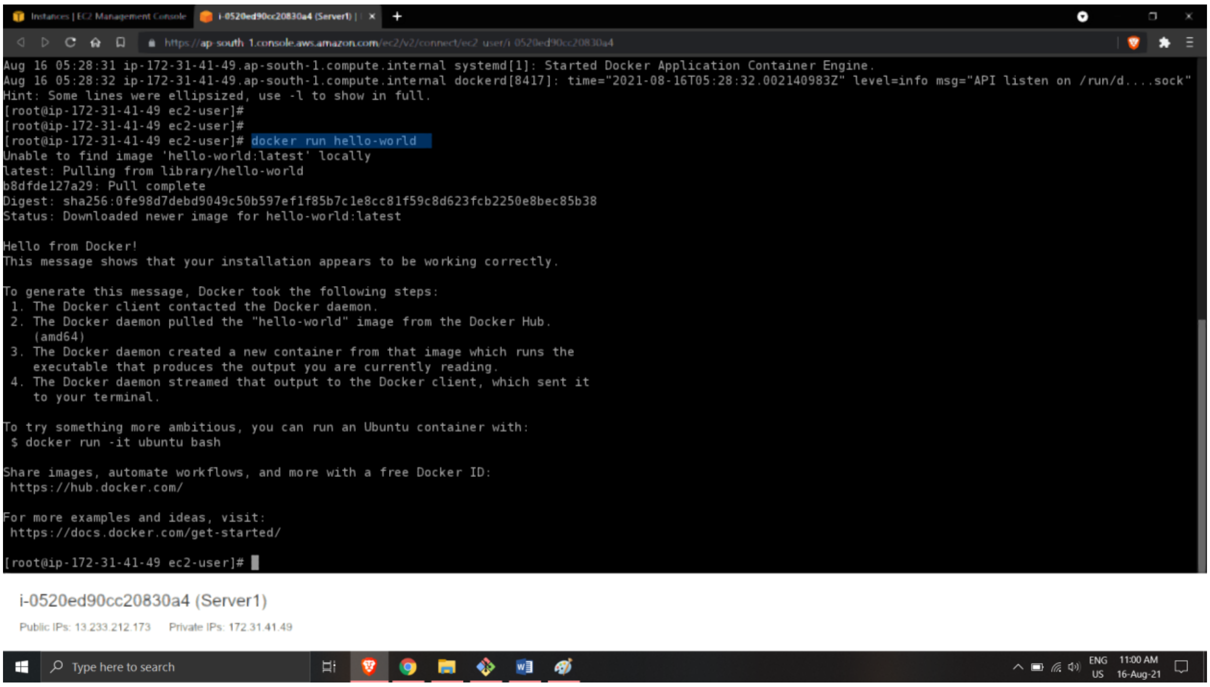
```
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-41-49 ~]$ sudo su
[root@ip-172-31-41-49 ec2-user]# docker --version
Docker version 20.10.4, build d3cb89e
[root@ip-172-31-41-49 ec2-user]#
[root@ip-172-31-41-49 ec2-user]# service docker start
Redirecting to /bin/systemctl start docker.service
[root@ip-172-31-41-49 ec2-user]# service docker status
Redirecting to /bin/systemctl status docker.service
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; vendor preset: disabled)
   Active: active (running) since Mon 2021-08-16 05:28:31 UTC; 9s ago
     Docs: https://docs.docker.com
  Process: 8412 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
  Process: 8402 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)
 Main PID: 8417 (dockerd)
    Tasks: 7
   Memory: 37.4M
   CGroup: /system.slice/docker.service
           └─8417 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --default-ulimit nofile=1024:4096

Aug 16 05:28:31 ip-172-31-41-49.ap-south-1.compute.internal dockerd[8417]: time="2021-08-16T05:28:31.685070623Z" level=info msg="scheme \"unix\" not ...e=grpc
Aug 16 05:28:31 ip-172-31-41-49.ap-south-1.compute.internal dockerd[8417]: time="2021-08-16T05:28:31.685377497Z" level=info msg="ccResolverWrapper: s...e=grpc
Aug 16 05:28:31 ip-172-31-41-49.ap-south-1.compute.internal dockerd[8417]: time="2021-08-16T05:28:31.685661827Z" level=info msg="ClientConn switching...e=grpc
Aug 16 05:28:31 ip-172-31-41-49.ap-south-1.compute.internal dockerd[8417]: time="2021-08-16T05:28:31.733341033Z" level=info msg="Loading containers: start."
Aug 16 05:28:31 ip-172-31-41-49.ap-south-1.compute.internal dockerd[8417]: time="2021-08-16T05:28:31.897468485Z" level=info msg="Default bridge (dock...dress"
Aug 16 05:28:31 ip-172-31-41-49.ap-south-1.compute.internal dockerd[8417]: time="2021-08-16T05:28:31.957300508Z" level=info msg="Loading containers: done."
Aug 16 05:28:31 ip-172-31-41-49.ap-south-1.compute.internal dockerd[8417]: time="2021-08-16T05:28:31.975583742Z" level=info msg="Docker daemon" commi...0.10.4
Aug 16 05:28:31 ip-172-31-41-49.ap-south-1.compute.internal dockerd[8417]: time="2021-08-16T05:28:31.976095648Z" level=info msg="Daemon has completed...ation"
Aug 16 05:28:31 ip-172-31-41-49.ap-south-1.compute.internal systemd[1]: Started Docker Application Container Engine.
Aug 16 05:28:32 ip-172-31-41-49.ap-south-1.compute.internal dockerd[8417]: time="2021-08-16T05:28:32.002140983Z" level=info msg="API listen on /run/d....sock"
Hint: Some lines were ellipsized, use -l to show in full.
[root@ip-172-31-41-49 ec2-user]# 
```

i-0520ed90cc20830a4 (Server1)

Public IPs: 13.233.212.173   Private IPs: 172.31.41.49

https://ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0520ed90cc20830a4
Type here to search
ENG
US
10:58 AM
16-Aug-21

Hello-World in Docker



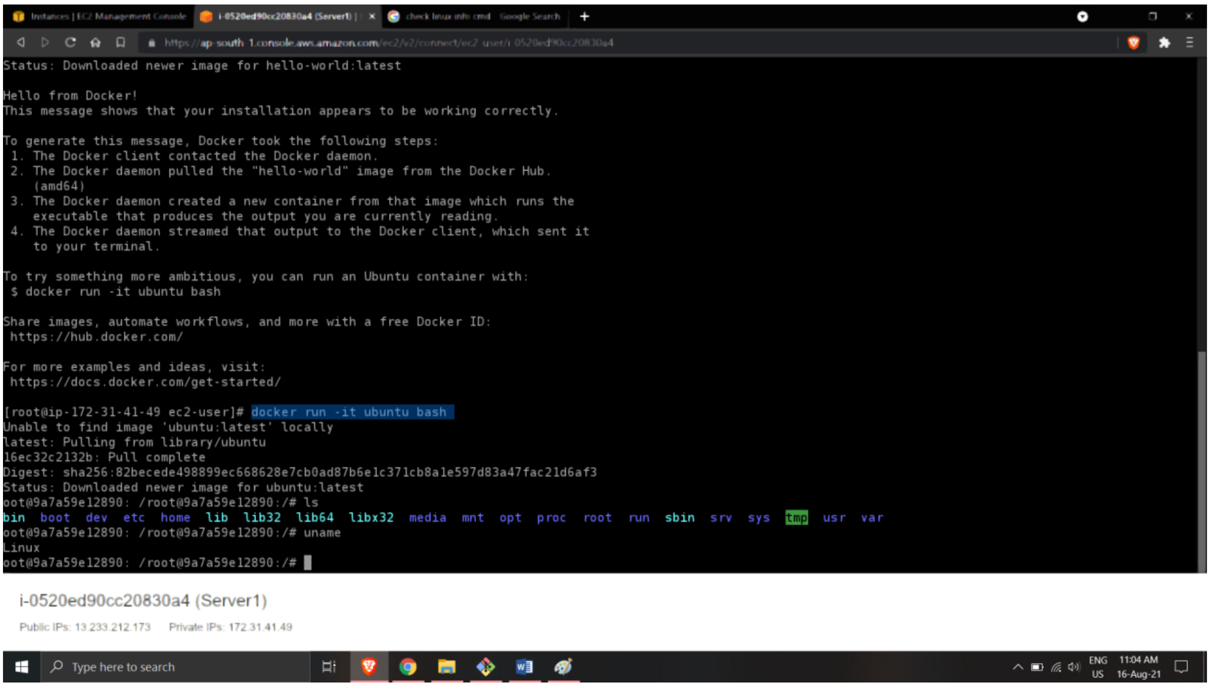
```
Aug 16 05:28:31 ip-172-31-41-49.ap-south-1.compute.internal systemd[1]: Started Docker Application Container Engine.
Aug 16 05:28:32 ip-172-31-41-49.ap-south-1.compute.internal dockerd[8417]: time="2021-08-16T05:28:32.002140983Z" level=info msg="API listen on /run/d....sock"
Hint: Some lines were ellipsized, use -l to show in full.
[root@ip-172-31-41-49 ec2-user]#
[root@ip-172-31-41-49 ec2-user]#
[root@ip-172-31-41-49 ec2-user]# docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
b8dfde127a29: Pull complete
Digest: sha256:0fe98d7debd9049c50b597ef1f85b7c1e8cc81f59c8d623fcb2250e8bec85b38
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
 $ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
 https://hub.docker.com/

For more examples and ideas, visit:
 https://docs.docker.com/get-started/

[root@ip-172-31-41-49 ec2-user]#
```

i-0520ed90cc20830a4 (Server1)

Public IPs: 13.233.212.173   Private IPs: 172.31.41.49

Instances | EC2 Management Console
i-0520ed90cc20830a4 (Server1)
https://ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0520ed90cc20830a4
Type here to search
ENG
US
11:00 AM
16-Aug-21

Run Ubuntu bash



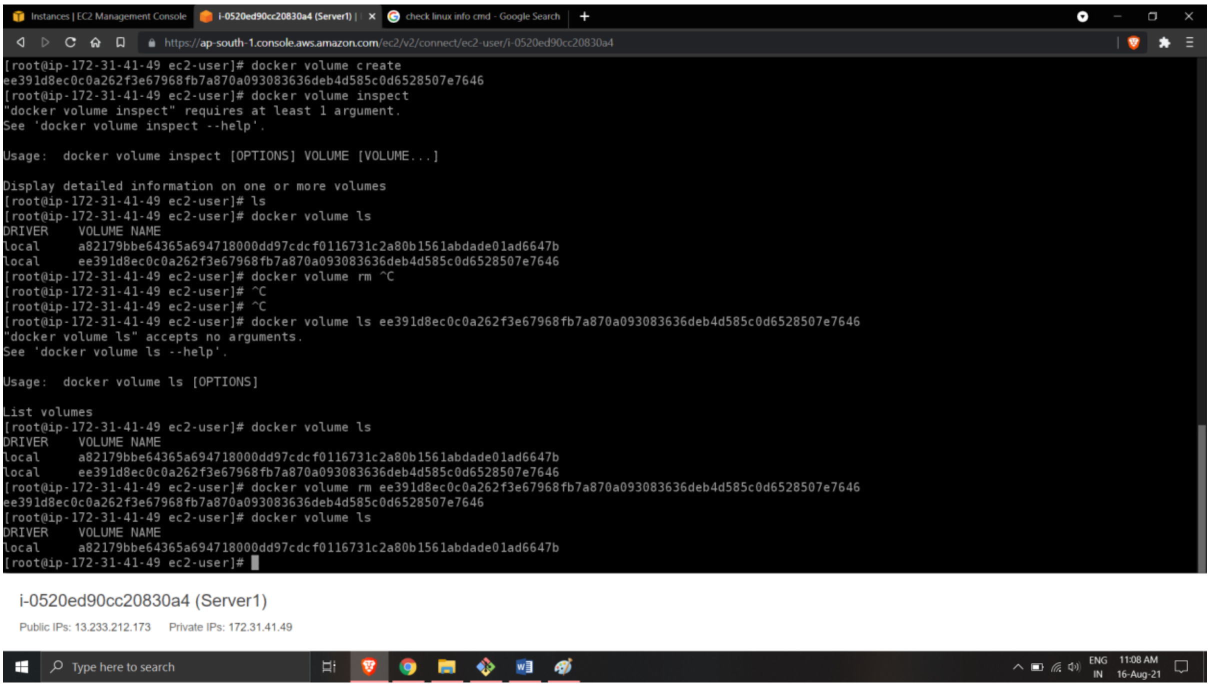
```
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
 $ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
 https://hub.docker.com/

For more examples and ideas, visit:
 https://docs.docker.com/get-started/

[root@ip-172-31-41-49 ec2-user]# docker run -it ubuntu bash
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
16ec32c2132b: Pull complete
Digest: sha256:82becede498899ec668628e7cb0ad87b6e1c371cb8a1e597d83a47fac21d6af3
Status: Downloaded newer image for ubuntu:latest
oot@9a7a59e12890: /root@9a7a59e12890:/# ls
bin  boot  dev  etc  home  lib  lib32  lib64  libx32  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
oot@9a7a59e12890: /root@9a7a59e12890:/# uname
Linux
oot@9a7a59e12890: /root@9a7a59e12890:/#
```

i-0520ed90cc20830a4 (Server1)

Public IPs: 13.233.212.173   Private IPs: 172.31.41.49

Instances | EC2 Management Console
i-0520ed90cc20830a4 (Server1)
check linux info cmd - Google Search
https://ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0520ed90cc20830a4
Type here to search
ENG
US
11:04 AM
16-Aug-21

Docker Volume Create, ls, rm

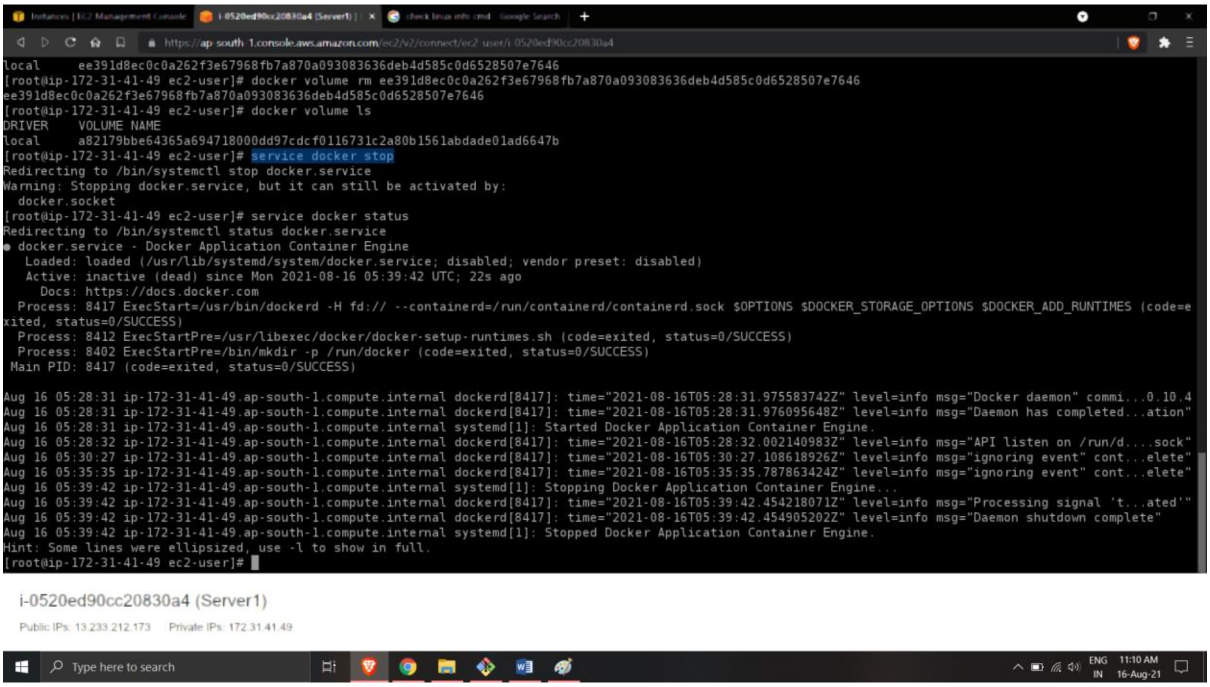

Instances | EC2 Management Console
i-0520ed90cc20830a4 (Server1) |
check linux info cmd - Google Search
https://ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0520ed90cc20830a4
Type here to search
ENG
IN
11:08 AM
16-Aug-21

```
[root@ip-172-31-41-49 ec2-user]# docker volume create
ee391d8ec0c0a262f3e67968fb7a870a093083636deb4d585c0d6528507e7646
[root@ip-172-31-41-49 ec2-user]# docker volume inspect
"docker volume inspect" requires at least 1 argument.
See 'docker volume inspect --help'.

Usage:  docker volume inspect [OPTIONS] VOLUME [VOLUME...]

Display detailed information on one or more volumes
[root@ip-172-31-41-49 ec2-user]# ls
[root@ip-172-31-41-49 ec2-user]# docker volume ls
DRIVER    VOLUME NAME
local     a82179bbe64365a694718000dd97cdcf0116731c2a80b1561abdade01ad6647b
local     ee391d8ec0c0a262f3e67968fb7a870a093083636deb4d585c0d6528507e7646
[root@ip-172-31-41-49 ec2-user]# docker volume rm ^C
[root@ip-172-31-41-49 ec2-user]# ^C
[root@ip-172-31-41-49 ec2-user]# ^C
[root@ip-172-31-41-49 ec2-user]# docker volume ls ee391d8ec0c0a262f3e67968fb7a870a093083636deb4d585c0d6528507e7646
"docker volume ls" accepts no arguments.
See 'docker volume ls --help'.

Usage:  docker volume ls [OPTIONS]

List volumes
[root@ip-172-31-41-49 ec2-user]# docker volume ls
DRIVER    VOLUME NAME
local     a82179bbe64365a694718000dd97cdcf0116731c2a80b1561abdade01ad6647b
local     ee391d8ec0c0a262f3e67968fb7a870a093083636deb4d585c0d6528507e7646
[root@ip-172-31-41-49 ec2-user]# docker volume rm ee391d8ec0c0a262f3e67968fb7a870a093083636deb4d585c0d6528507e7646
ee391d8ec0c0a262f3e67968fb7a870a093083636deb4d585c0d6528507e7646
[root@ip-172-31-41-49 ec2-user]# docker volume ls
DRIVER    VOLUME NAME
local     a82179bbe64365a694718000dd97cdcf0116731c2a80b1561abdade01ad6647b
[root@ip-172-31-41-49 ec2-user]# 
```

i-0520ed90cc20830a4 (Server1)

Public IPs: 13.233.212.173   Private IPs: 172.31.41.49

Docker service Stop


Instances | EC2 Management Console
i-0520ed90cc20830a4 (Server1) |
check linux info cmd - Google Search
https://ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0520ed90cc20830a4
Type here to search
ENG
IN
11:10 AM
16-Aug-21

```
local     ee391d8ec0c0a262f3e67968fb7a870a093083636deb4d585c0d6528507e7646
[root@ip-172-31-41-49 ec2-user]# docker volume rm ee391d8ec0c0a262f3e67968fb7a870a093083636deb4d585c0d6528507e7646
ee391d8ec0c0a262f3e67968fb7a870a093083636deb4d585c0d6528507e7646
[root@ip-172-31-41-49 ec2-user]# docker volume ls
DRIVER    VOLUME NAME
local     a82179bbe64365a694718000dd97cdcf0116731c2a80b1561abdade01ad6647b
[root@ip-172-31-41-49 ec2-user]# service docker stop
Redirecting to /bin/systemctl stop docker.service
Warning: Stopping docker.service, but it can still be activated by:
  docker.socket
[root@ip-172-31-41-49 ec2-user]# service docker status
Redirecting to /bin/systemctl status docker.service
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; vendor preset: disabled)
   Active: inactive (dead) since Mon 2021-08-16 05:39:42 UTC; 22s ago
     Docs: https://docs.docker.com
  Process: 8417 ExecStart=/usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock $OPTIONS $DOCKER_STORAGE_OPTIONS $DOCKER_ADD_RUNTIMES (code=e
xited, status=0/SUCCESS)
  Process: 8412 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
  Process: 8402 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)
 Main PID: 8417 (code=exited, status=0/SUCCESS)

Aug 16 05:28:31 ip-172-31-41-49.ap-south-1.compute.internal dockerd[8417]: time="2021-08-16T05:28:31.975583742Z" level=info msg="Docker daemon" commi...0.10.4
Aug 16 05:28:31 ip-172-31-41-49.ap-south-1.compute.internal dockerd[8417]: time="2021-08-16T05:28:31.976095648Z" level=info msg="Daemon has completed...ation"
Aug 16 05:28:31 ip-172-31-41-49.ap-south-1.compute.internal systemd[1]: Started Docker Application Container Engine.
Aug 16 05:28:32 ip-172-31-41-49.ap-south-1.compute.internal dockerd[8417]: time="2021-08-16T05:28:32.002140983Z" level=info msg="API listen on /run/d....sock"
Aug 16 05:30:27 ip-172-31-41-49.ap-south-1.compute.internal dockerd[8417]: time="2021-08-16T05:30:27.108618926Z" level=info msg="ignoring event" cont...elete"
Aug 16 05:35:35 ip-172-31-41-49.ap-south-1.compute.internal dockerd[8417]: time="2021-08-16T05:35:35.787863424Z" level=info msg="ignoring event" cont...elete"
Aug 16 05:39:42 ip-172-31-41-49.ap-south-1.compute.internal systemd[1]: Stopping Docker Application Container Engine...
Aug 16 05:39:42 ip-172-31-41-49.ap-south-1.compute.internal dockerd[8417]: time="2021-08-16T05:39:42.454218071Z" level=info msg="Processing signal 't...ated'"
Aug 16 05:39:42 ip-172-31-41-49.ap-south-1.compute.internal dockerd[8417]: time="2021-08-16T05:39:42.454905202Z" level=info msg="Daemon shutdown complete"
Aug 16 05:39:42 ip-172-31-41-49.ap-south-1.compute.internal systemd[1]: Stopped Docker Application Container Engine.
Hint: Some lines were ellipsized, use -l to show in full.
[root@ip-172-31-41-49 ec2-user]# 
```

i-0520ed90cc20830a4 (Server1)

Public IPs: 13.233.212.173   Private IPs: 172.31.41.49