



```

Total 76 MB/s | 72 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : runc-1.1.7-1.amzn2.x86_64 1/5
  Installing : containerd-1.6.19-1.amzn2.0.1.x86_64 2/5
  Installing : libcgrou-0.41-21.amzn2.x86_64 3/5
  Installing : pigz-2.3.4-1.amzn2.0.1.x86_64 4/5
  Installing : docker-20.10.23-1.amzn2.0.1.x86_64 5/5
  Verifying : containerd-1.6.19-1.amzn2.0.1.x86_64 1/5
  Verifying : pigz-2.3.4-1.amzn2.0.1.x86_64 2/5
  Verifying : docker-20.10.23-1.amzn2.0.1.x86_64 3/5
  Verifying : runc-1.1.7-1.amzn2.x86_64 4/5
  Verifying : libcgrou-0.41-21.amzn2.x86_64 5/5

Installed:
  docker.x86_64 0:20.10.23-1.amzn2.0.1

Dependency Installed:
  containerd.x86_64 0:1.6.19-1.amzn2.0.1      libcgrou.x86_64 0:0.41-21.amzn2      pigz.x86_64 0:2.3.4-1.amzn2.0.1      runc.x86_64 0:1.1.7-1.amzn2

Complete!
[root@ip-172-31-44-255 ec2-user]#

```

```

[root@ip-172-31-44-255 ec2-user]# docker --version
Docker version 20.10.23, build 7155243
[root@ip-172-31-44-255 ec2-user]#

```

```

[root@ip-172-31-44-255 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)
     Docs: https://docs.docker.com
[root@ip-172-31-44-255 ec2-user]#

```

```

[root@ip-172-31-44-255 ec2-user]# service docker start
Redirecting to /bin/systemctl start docker.service
[root@ip-172-31-44-255 ec2-user]#

```

```

[root@ip-172-31-44-255 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 Fri 2023-06-23 09:09:26 UTC; 16s ago
     Docs: https://docs.docker.com
   Process: 3533 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
   Process: 3532 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)
  Main PID: 3536 (dockerd)
    Tasks: 7
   Memory: 20.8M
   CGroup: /system.slice/docker.service
           └─3536 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --default-ulimit nfile=32768:65536

Jun 23 09:09:25 ip-172-31-44-255.ap-south-1.compute.internal dockerd[3536]: time="2023-06-23T09:09:25.774713369Z" level=info msg="ClientConn switching balance...le=grpc"
Jun 23 09:09:25 ip-172-31-44-255.ap-south-1.compute.internal dockerd[3536]: time="2023-06-23T09:09:25.811263678Z" level=warning msg="Your kernel does not supp...weight"
Jun 23 09:09:25 ip-172-31-44-255.ap-south-1.compute.internal dockerd[3536]: time="2023-06-23T09:09:25.811604485Z" level=warning msg="Your kernel does not supp...device"
Jun 23 09:09:25 ip-172-31-44-255.ap-south-1.compute.internal dockerd[3536]: time="2023-06-23T09:09:25.812045989Z" level=info msg="Loading containers: start."
Jun 23 09:09:25 ip-172-31-44-255.ap-south-1.compute.internal dockerd[3536]: time="2023-06-23T09:09:25.987593159Z" level=info msg="Default bridge (docker0) is ...ddress"
Jun 23 09:09:26 ip-172-31-44-255.ap-south-1.compute.internal dockerd[3536]: time="2023-06-23T09:09:26.039830316Z" level=info msg="Loading containers: done."
Jun 23 09:09:26 ip-172-31-44-255.ap-south-1.compute.internal dockerd[3536]: time="2023-06-23T09:09:26.056643045Z" level=info msg="Docker daemon" commit=6051f1...0.10.23
Jun 23 09:09:26 ip-172-31-44-255.ap-south-1.compute.internal dockerd[3536]: time="2023-06-23T09:09:26.057086789Z" level=info msg="Daemon has completed initialization"
Jun 23 09:09:26 ip-172-31-44-255.ap-south-1.compute.internal systemd[1]: Started Docker Application Container Engine.
Jun 23 09:09:26 ip-172-31-44-255.ap-south-1.compute.internal dockerd[3536]: time="2023-06-23T09:09:26.081954019Z" level=info msg="API listen on /run/docker.sock"
Hint: Some lines were ellipsized, use -l to show in full.
[root@ip-172-31-44-255 ec2-user]#

```

```

[root@ip-172-31-44-255 ec2-user]# docker images
REPOSITORY          TAG                 IMAGE ID            CREATED            SIZE
[root@ip-172-31-44-255 ec2-user]#

```

```

[root@ip-172-31-44-255 ec2-user]# docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS             PORTS              NAMES
[root@ip-172-31-44-255 ec2-user]#

```

```

[root@ip-172-31-44-255 ec2-user]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS             PORTS              NAMES
[root@ip-172-31-44-255 ec2-user]#

```

```
[root@ip-172-31-44-255 ec2-user]# docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
6b851dcae6ca: Pull complete
Digest: sha256:6120be6a2b7ce665d0cbddc3ce6eae60fe94637c6a66985312d1f02f63cc0bcd
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
[root@ip-172-31-44-255 ec2-user]#
```

```
[root@ip-172-31-44-255 ec2-user]# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ubuntu        latest    99284ca6cea0   2 weeks ago   77.8MB
[root@ip-172-31-44-255 ec2-user]#
```

```
[root@ip-172-31-44-255 ec2-user]# docker run -it ubuntu /bin/bash
root@c6fb37ae9d1b:/#
```

```
root@c6fb37ae9d1b:/# exit
exit
```

```
[root@ip-172-31-44-255 ec2-user]# docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS          NAMES
[root@ip-172-31-44-255 ec2-user]# docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS          NAMES
c6fb37ae9d1b   ubuntu    "/bin/bash"             56 seconds ago Exited (0)    19 seconds ago silly_mcclintock
[root@ip-172-31-44-255 ec2-user]#
```

```
[root@ip-172-31-44-255 ec2-user]# docker run -it --name sarath ubuntu /bin/bash
root@80e8612137db:/# exit
exit
[root@ip-172-31-44-255 ec2-user]# docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS          NAMES
80e8612137db   ubuntu    "/bin/bash"             17 seconds ago Exited (0)    6 seconds ago sarath
c6fb37ae9d1b   ubuntu    "/bin/bash"             3 minutes ago  Exited (0)    2 minutes ago silly_mcclintock
[root@ip-172-31-44-255 ec2-user]#
```

```
[root@ip-172-31-44-255 ec2-user]# docker run -it --name marvel mongo /bin/bash
Unable to find image 'mongo:latest' locally
latest: Pulling from library/mongo
3f94e4e483ea: Pull complete
5ac5d4dae314: Pull complete
cbe6867b3f80: Pull complete
ec4c7cb44e89: Pull complete
38c7016c15b5: Pull complete
2d740b6c9811: Pull complete
329604f22078: Pull complete
71c33622dbce: Pull complete
45f7e12b56a3: Pull complete
Digest: sha256:d2e09ab3edcd6d11e57ae4ab18df673b5df46f4f3b5a788ada9b8a98de2c4a08
Status: Downloaded newer image for mongo:latest
root@54eaf3fce10b:/# exit
exit
[root@ip-172-31-44-255 ec2-user]# docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS          NAMES
54eaf3fce10b   mongo     "docker-entrypoint.s..." 14 seconds ago Exited (0)    2 seconds ago marvel
80e8612137db   ubuntu    "/bin/bash"             6 minutes ago  Exited (0)    5 minutes ago sarath
c6fb37ae9d1b   ubuntu    "/bin/bash"             8 minutes ago  Exited (0)    8 minutes ago silly_mcclintock
[root@ip-172-31-44-255 ec2-user]#
```

```
[root@ip-172-31-44-255 ec2-user]# docker start sarath
sarath
[root@ip-172-31-44-255 ec2-user]# docker attach sarath
root@80e8612137db:/# cat > file.txt
Hi.. Hello...
Welcome to Docker File..
^Z
[1]+  Stopped                  cat > file.txt
```

```
root@80e8612137db:/# ls
bin boot dev etc file.txt home lib lib32 lib64 libx32 media mnt opt proc root run sbin srv sys tmp usr var
root@80e8612137db:/#
```

```
root@80e8612137db:/# apt-get update
Get:1 http://archive.ubuntu.com/ubuntu jammy InRelease [270 kB]
Get:2 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [108 kB]
Get:5 http://archive.ubuntu.com/ubuntu jammy/main amd64 Packages [1792 kB]
Get:6 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [36.3 kB]
Get:7 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [541 kB]
Get:8 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [266 kB]
Get:9 http://archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [17.5 MB]
Get:10 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [634 kB]
Get:11 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [939 kB]
Get:12 http://archive.ubuntu.com/ubuntu jammy/restricted amd64 Packages [164 kB]
Get:13 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [42.2 kB]
Get:14 http://archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [545 kB]
Get:15 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [922 kB]
Get:16 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1191 kB]
Get:17 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [25.5 kB]
Get:18 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [49.4 kB]
Fetched 25.2 MB in 4s (5867 kB/s)
Reading package lists... Done
root@80e8612137db:/#
```

```
root@80e8612137db:/# apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils bzip2 ca-certificates file libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libbrotli1 libcurl4 libexpat1
  libgdbm-compat4 libgdbm6 libicu70 libjansson4 libldap-2.5-0 libldap-common liblua5.3-0 libmagic-mgc libmagic1 libnghttp2-14 libperl5.34 libpsl5 librtmp1 libssl1.2-2
  libsqlite3-modules libsqlite3-modules-db libsqlite3-0 libssh-4 libxml2 mailcap media-types mime-support netbase openssl perl perl-modules-5.34 publicsuffix ssl-cert
  xz-utils
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser ufw bzip2-doc gdbm-l10n libssl-modules-gssapi-mit | libssl-modules-gssapi-heimdal
  libsqlite3-modules-ldap libsqlite3-modules-otp libsqlite3-modules-sql perl-doc libterm-readline-gnu-perl | libterm-readline-perl-perl make libtap-harness-archive-perl
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils bzip2 ca-certificates file libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libbrotli1 libcurl4 libexpat1
  libgdbm-compat4 libgdbm6 libicu70 libjansson4 libldap-2.5-0 libldap-common liblua5.3-0 libmagic-mgc libmagic1 libnghttp2-14 libperl5.34 libpsl5 librtmp1 libssl1.2-2
  libsqlite3-modules libsqlite3-modules-db libsqlite3-0 libssh-4 libxml2 mailcap media-types mime-support netbase openssl perl perl-modules-5.34 publicsuffix ssl-cert
  xz-utils
0 upgraded, 43 newly installed, 0 to remove and 1 not upgraded.
Need to get 25.6 MB of archives.
After this operation, 111 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 perl-modules-5.34 all 5.34.0-3ubuntu1.2 [2977 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy/main amd64 libgdbm6 amd64 1.23-1 [33.0 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy/main amd64 libgdbm-compat4 amd64 1.23-1 [6606 B]
Get:4 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libperl5.34 amd64 5.34.0-3ubuntu1.2 [4818 kB]
Get:5 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 perl amd64 5.34.0-3ubuntu1.2 [232 kB]
Get:6 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libapr1 amd64 1.7.0-8ubuntu0.22.04.1 [108 kB]
Get:7 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libexpat1 amd64 2.4.7-1ubuntu0.2 [91.0 kB]
Get:8 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1 amd64 1.6.1-5ubuntu4.22.04.1 [92.6 kB]
Get:9 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libsqlite3-0 amd64 3.37.2-2ubuntu0.1 [641 kB]
Get:10 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.1-5ubuntu4.22.04.1 [11.3 kB]
Get:11 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libsqlite3-modules-db amd64 2.1.27+dfsg2-3ubuntu1.2 [20.5 kB]
Get:12 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libsqlite3-modules amd64 2.1.27+dfsg2-3ubuntu1.2 [53.8 kB]
Get:13 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libldap-2.5-0 amd64 2.5.14+dfsg-0ubuntu0.22.04.2 [183 kB]
Get:14 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1-ldap amd64 1.6.1-5ubuntu4.22.04.1 [9168 B]
Get:15 http://archive.ubuntu.com/ubuntu jammy/main amd64 libbrotli1 amd64 1.0.9-2build6 [315 kB]
Get:16 http://archive.ubuntu.com/ubuntu jammy/main amd64 libnghttp2-14 amd64 1.43.0-1build3 [76.3 kB]
Get:17 http://archive.ubuntu.com/ubuntu jammy/main amd64 libpsl5 amd64 0.21.0-1.2build2 [58.4 kB]
Get:18 http://archive.ubuntu.com/ubuntu jammy/main amd64 librtmp1 amd64 2.4+20151223.gitfa8646d.1-2build4 [58.2 kB]
```

```

Setting up apache2-utils (2.4.52-1ubuntu4.5) ...
Setting up libperl5.34:amd64 (5.34.0-3ubuntu1.2) ...
Setting up libaprutil1-ldap:amd64 (1.6.1-5ubuntu4.22.04.1) ...
Setting up perl (5.34.0-3ubuntu1.2) ...
Setting up mailcap (3.70+nmu1ubuntu1) ...
Setting up mime-support (3.66) ...
Setting up apache2-bin (2.4.52-1ubuntu4.5) ...
Setting up apache2 (2.4.52-1ubuntu4.5) ...
Enabling module mpm_event.
Enabling module authz_core.
Enabling module authz_host.
Enabling module authn_core.
Enabling module auth_basic.
Enabling module access_compat.
Enabling module authn_file.
Enabling module authz_user.
Enabling module alias.
Enabling module dir.
Enabling module autoindex.
Enabling module env.
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of start.
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Processing triggers for ca-certificates (20230311ubuntu0.22.04.1) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...
done.
root@80e8612137db:/#

```

```

root@80e8612137db:/# which apache2
/usr/sbin/apache2
root@80e8612137db:/#

```

```

[root@ip-172-31-44-255 ec2-user]# docker commit sarath sarath_image
sha256:6f93cd9358d45f0dc6111fca1dd5dfc87cea92380e7f699d093a549c14b220c3
[root@ip-172-31-44-255 ec2-user]#

```

```

[root@ip-172-31-44-255 ec2-user]# docker images

```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
sarath_image	latest	6f93cd9358d4	2 minutes ago	227MB
mongo	latest	7e32c3979b02	13 days ago	653MB
ubuntu	latest	99284ca6cea0	4 weeks ago	77.8MB

```

[root@ip-172-31-44-255 ec2-user]#

```

```
[root@ip-172-31-44-255 ec2-user]# docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username: sarath432
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
[root@ip-172-31-44-255 ec2-user]# docker push sarath432/new_sarath_image
Using default tag: latest
The push refers to repository [docker.io/sarath432/new_sarath_image]
78b07652c28f: Pushed
cdd7c7392317: Mounted from library/mongo
latest: digest: sha256:dcf706a3583a48c86484eae747304803b0c4bfda05d63be3f360a7e7ac052af7 size: 741
[root@ip-172-31-44-255 ec2-user]#
```

```
[root@ip-172-31-34-214 ec2-user]# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
[root@ip-172-31-34-214 ec2-user]# docker pull new_sarath_image
Using default tag: latest
Error response from daemon: pull access denied for new_sarath_image, repository does not exist or may require 'docker login': denied: requested access
to the resource is denied
[root@ip-172-31-34-214 ec2-user]# docker pull sarath432/new_sarath_image
Using default tag: latest
latest: Pulling from sarath432/new_sarath_image
3f94e4e483ea: Pull complete
edd64f47bfe1: Pull complete
Digest: sha256:dcf706a3583a48c86484eae747304803b0c4bfda05d63be3f360a7e7ac052af7
Status: Downloaded newer image for sarath432/new_sarath_image:latest
docker.io/sarath432/new_sarath_image:latest
[root@ip-172-31-34-214 ec2-user]# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
sarath432/new_sarath_image latest 6f93cd9358d4 41 minutes ago 227MB
[root@ip-172-31-34-214 ec2-user]#
```