

Docker task

05 November 2025 15:22

Docker Installation

Install Docker on your local system (Windows, macOS, or Linux). Verify installation by running: `docker --version` `docker info`

```
^C^C[root@localhost ~]# yum remove docker docker-client docker-client-latest docker-common docker-latest docker-latest-logrotate dock
er-logrotate docker-engine
No match for argument: docker
No match for argument: docker-client
No match for argument: docker-client-latest
No match for argument: docker-common
No match for argument: docker-latest
No match for argument: docker-latest-logrotate
No match for argument: docker-logrotate
No match for argument: docker-engine
No packages marked for removal.
Dependencies resolved.
Nothing to do.
Complete!
```

```
[root@localhost ~]# yum install -y yum-utils device-mapper-persistent-data lvm2
Last metadata expiration check: 0:01:49 ago on Wednesday 05 November 2025 02:04:54 PM.
Package yum-utils-4.3.0-23.el9.noarch is already installed.
Package device-mapper-persistent-data-1.1.0-1.el9.x86_64 is already installed.
Package lvm2-9:2.03.32-2.el9.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
```

```
[root@localhost ~]# yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo
Adding repo from: https://download.docker.com/linux/centos/docker-ce.repo
[root@localhost ~]# yum list docker-ce --showduplicates | sort -r
Installed Packages
docker-ce.x86_64          3:28.5.1-1.el9          docker-ce-stable
docker-ce.x86_64          3:28.5.1-1.el9          @docker-ce-stable
docker-ce.x86_64          3:28.5.0-1.el9          docker-ce-stable
docker-ce.x86_64          3:28.4.0-1.el9          docker-ce-stable
```

```
[root@localhost ~]# yum install -y docker-ce docker-ce-cli containerd.io docker-compose-plugin
Last metadata expiration check: 0:00:20 ago on Wednesday 05 November 2025 02:07:17 PM.
Package docker-ce-3:28.5.1-1.el9.x86_64 is already installed.
Package docker-ce-cli-1:28.5.1-1.el9.x86_64 is already installed.
Package containerd.io-1.7.28-1.el9.x86_64 is already installed.
Package docker-compose-plugin-2.40.3-1.el9.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
```

```
[root@localhost ~]# systemctl start docker
[root@localhost ~]# systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; preset: disabled)
   Active: active (running) since Wed 2025-11-05 14:08:12 IST; 18s ago
     TriggeredBy: ● docker.socket
      Docs: https://docs.docker.com
    Main PID: 4565 (dockerd)
      Tasks: 10
     Memory: 23.8M (peak: 25.8M)
        CPU: 1.910s
    CGroup: /system.slice/docker.service
            └─4565 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock
```

```
docker --version
Client: Docker Engine - Community
Version: 28.5.1
```

```
[root@localhost ~]# docker system info
Client: Docker Engine - Community
Version:      28.5.1
Context:      default
Debug Mode:   false
Plugins:
  buildx: Docker Buildx (Docker Inc.)
    Version:  v0.29.1
    Path:      /usr/libexec/docker/cli-plugins/docker-buildx
  compose: Docker Compose (Docker Inc.)
    Version:   v2.40.3
    Path:      /usr/libexec/docker/cli-plugins/docker-compose
```

Working with Docker Images

Search for the official Ubuntu image on Docker Hub. Pull it to your local system using `docker pull`. List all available images using `docker images`

```
[root@localhost ~]# docker search ubuntu
NAME                DESCRIPTION                                     STARS     OFFICIAL
ubuntu              Ubuntu is a Debian-based Linux operating sys... 17718     [OK]
ubuntu/squid        Squid is a caching proxy for the Web. Long-t... 119
ubuntu/nginx        Nginx, a high-performance reverse proxy & we... 133
ubuntu/cortex       Cortex provides storage for Prometheus. Long... 4
ubuntu/kafka        Apache Kafka, a distributed event streaming ... 56
ubuntu/apache2      Apache, a secure & extensible open-source HT... 97
ubuntu/prometheus   Prometheus is a systems and service monitori... 75
ubuntu/bind9        BIND 9 is a very flexible, full-featured DNS... 116
ubuntu/jre          Chiselled Java runtime based on Ubuntu. Long... 23
ubuntu/postgres     PostgreSQL is an open source object-relatio... 42
ubuntu/zookeeper    ZooKeeper maintains configuration informatio... 14
ubuntu/mysql        MySQL open source fast, stable, multi-thread... 71
ubuntu/dotnet-aspnet Chiselled Ubuntu runtime image for ASP.NET a... 26
ubuntu/redis        Redis, an open source key-value store. Long... 24
ubuntu/python       A chiselled Ubuntu rock with the Python runt... 28
ubuntu/dotnet-deps  Chiselled Ubuntu for self-contained .NET & A... 16
ubuntu/grafana      Grafana, a feature rich metrics dashboard & ... 12
ubuntu/dotnet-runtime Chiselled Ubuntu runtime image for .NET apps... 22
ubuntu/memcached    Memcached, in-memory keyvalue store for smal... 6
ubuntu/cassandra    Cassandra, an open source NoSQL distributed ... 3
ubuntu/prometheus-alertmanager Alertmanager handles client alerts from Prom... 10
ubuntu/mlflow       MLFlow: for managing the machine learning li... 6
ubuntu/telegraf     Telegraf collects, processes, aggregates & w... 4
ubuntu/chiselled-jre [MOVED TO ubuntu/jre] Chiselled JRE: distrol... 3
ubuntu/grafana-agent Ubuntu ROCK for Grafana Agent, an open-sourc... 0
[root@localhost ~]# docker pull ubuntu
Using default tag: latest
```

```
[root@localhost ~]# docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
4b3ffd8ccb52: Pull complete
Digest: sha256:66460d557b25769b102175144d538d88219c077c678a49af4afca6fbfc1b5252
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
```

```
[root@localhost ~]# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ubuntu        latest    97bed23a3497   4 weeks ago    78.1MB
hello-world   latest    1b44b5a3e06a   2 months ago   10.1kB
```

3. Creating a Docker Container

Run a container using the Ubuntu image. Execute a command inside the container: `echo "Hello, Docker!"`

```
[root@localhost ~]# docker run -it ubuntu bash
root@f56c84709670:/# echo "Hello, Docker!"
Hello, Docker!
root@f56c84709670:/# exit
exit
```

```
[root@localhost ~]# docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
f56c84709670   ubuntu   "bash"    5 minutes ago   Exited (0) 5 minutes ago           boring_mendel
a29b356068a4   hello-world   "/hello"  16 minutes ago   Exited (0) 16 minutes ago           distracted_mestorf
0d283fe150ec   hello-world   "/hello"  16 minutes ago   Exited (0) 16 minutes ago           zen_allen
```

4. Inspect Container (Created State)

Verify that the Ubuntu container is in the "created" state.

```
[root@localhost ~]# docker container create ubuntu
9cc948c91bcc71d8abb07eb70711b60752a0a97d209706bfc12396fa4de3bc2d
[root@localhost ~]# docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
9cc948c91bcc   ubuntu   "/bin/bash"  13 seconds ago   Created                        objective_pascal
```

5. Run Container (Running State)

Execute the Ubuntu container and confirm it's in the "running" state.

```
[root@localhost ~]# docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
060bc70c9d4e   ubuntu   "/bin/bash"  About a minute ago   Exited (0) 9 seconds ago           lucid_curran
9cc948c91bcc   ubuntu   "/bin/bash"  2 minutes ago   Created                        objective_pascal
```

6. Launch and Remove HTTP Container

Launch an HTTP container. Verify its state. Remove both the container and its image from your system.

```
[root@localhost ~]# docker run -d -p 8080:80 --name http_container nginx
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
d7ecdcd7702a: Pull complete
266626526d42: Pull complete
320b0949be89: Pull complete
d921c57c6a81: Pull complete
9def903993e4: Pull complete
52bc359bcbd7: Pull complete
e2f8e296d9df: Pull complete
Digest: sha256:1beed3ca46acebe9d3fb62e9067f03d05d5bfa97a00f30938a0a3580563272ad
Status: Downloaded newer image for nginx:latest
f7158d689a3048b785a8ef0582998cb4b2b5999c28b6377b07c0fe31c21e3e85
```

```
[root@localhost ~]# docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAME
f7158d689a30   nginx     "/docker-entrypoint..."  About a minute ago   Up 57 seconds   0.0.0.0:8080->80/tcp, [::]:8080->80/tcp   http_container
```

```
[root@localhost ~]# docker stop http_container
http_container
```

```
[root@localhost ~]# docker rm http_container
http_container
```

```
[root@localhost ~]# docker rmi nginx:latest
hello-world:latest   nginx:latest         ubuntu:latest
```

7. List Short Container IDs

Execute a command that displays only the short container IDs.

```
[root@localhost ~]# docker ps -aq
060bc70c9d4e
9cc948c91bcc
f56c84709670
a29b356068a4
0d283fe150ec
```

Clone & Build Custom Image

Clone the repository: [lancachenet/ubuntu-nginx](https://github.com/lancachenet/ubuntu-nginx) Build a Docker image using the provided Dockerfile. Add relevant tags while building the image.

```
[root@localhost ~]# git clone https://github.com/lancachenet/ubuntu-nginx.git
Cloning into 'ubuntu-nginx'...
remote: Enumerating objects: 149, done.
remote: Counting objects: 100% (57/57), done.
remote: Compressing objects: 100% (36/36), done.
remote: Total 149 (delta 15), reused 41 (delta 11), pack-reused 92 (from 1)
Receiving objects: 100% (149/149), 32.15 KiB | 587.00 KiB/s, done.
Resolving deltas: 100% (30/30), done.
```

```
[root@localhost ~]# ll
total 8
-rw-----. 1 root root 906 Oct 15 18:16 anaconda-ks.cfg
-rw-r--r--. 1 root root 12 Nov 5 12:39 flog.txt
drwxr-xr-x. 3 root root 54 Nov 4 16:56 shell_test
drwxr-xr-x. 5 root root 162 Nov 5 15:07 ubuntu-nginx
[root@localhost ~]# cd ubuntu-nginx/
```

```
[root@localhost ubuntu-nginx]# ll
total 20
-rw-r--r--. 1 root root 1072 Nov 5 15:07 Dockerfile
```

```
[root@localhost ubuntu-nginx]# docker image build -t test-nginx:1.0 .
[+] Building 875.7s (9/9) FINISHED
=> [internal] load build definition from Dockerfile                                docker:default 0.2s
=> => transferring dockerfile: 1.17kB                                           0.1s
=> [internal] load metadata for docker.io/lancachenet/ubuntu:latest             4.8s
=> [internal] load .dockerignore                                                 0.2s
=> => transferring context: 2B                                                    0.0s
=> [internal] load build context                                                 0.3s
=> => transferring context: 3.05kB                                               0.1s
=> [1/4] FROM docker.io/lancachenet/ubuntu:latest@sha256:4c1538c38fff563e3fe0357ecd4d15b64bb644f918cb17a7ea391cd0b299465b 0.0s
=> CACHED [2/4] COPY overlay/ /                                                  0.0s
=> [3/4] RUN apt-get update && apt-get install -y nginx-full inotify-tools --no-install-recommends && apt-get -y cl 868.3s
=> [4/4] RUN chmod 777 /opt/nginx/startnginx.sh && rm /etc/nginx/sites-available/default /etc/nginx/sites-enabled/def 0.7s
=> exporting to image                                                            0.4s
=> => exporting layers                                                            0.4s
=> => writing image sha256:e24a6710ec36b81da6fa5e808c20f9a5b9f7e82f6f7aca024aa5f10352cfd0c4 0.0s
=> => naming to docker.io/library/test-nginx:1.0                               0.0s

1 warning found (use docker --debug to expand):
- MaintainerDeprecated: Maintainer instruction is deprecated in favor of using label (line 2)
```

. Run & Test the Webpage

Run a Docker container using the newly built image. Use the curl command to verify that the webpage is accessible.

```
[root@localhost ubuntu-nginx]# docker images
REPOSITORY          TAG             IMAGE ID         CREATED          SIZE
test-nginx          1.0            e24a6710ec36    About a minute ago 195MB
ubuntu              latest         97bed23a3497    4 weeks ago      78.1MB
hello-world         latest         1b44b5a3e06a    2 months ago     10.1kB
```

```
[root@localhost ubuntu-nginx]# docker run -d -p 8080:80 --name nginx-web test-nginx:1.0
6dc21c4aebba49ed2281116e67223d8bf15b823ac45ddb6af0e1d90dac023936
```

```
[root@localhost ubuntu-nginx]# docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED          STATUS          PORTS
6dc21c4aebba  test-nginx:1.0 "/bin/bash -e /init/..." 11 seconds ago   Up 10 seconds   0.0.0.0:8080->80/tcp, [::]:8080->80/tcp
nginx-web
```

```
[root@localhost ubuntu-nginx]# curl http://localhost:8080
Welcome to the lancachenet/ubuntu-nginx docker container
```

10. Container Detach & Reattach

Launch an Ubuntu container. Demonstrate the escape sequence (detach). Reattach the container after detaching. Check and note down the container's IP address.

```
[root@localhost ubuntu-nginx]# docker run -it --name myubuntu ubuntu
root@1f9207edc8c7:/# [root@localhost ubuntu-nginx]# docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED          STATUS          PORTS
1f9207edc8c7  ubuntu        "/bin/bash"             25 seconds ago   Up 25 seconds
myubuntu
```

```
[root@localhost ubuntu-nginx]# docker attach myubuntu
root@1f9207edc8c7:/# apt update -y && apt install iproute2 -y
```

```
root@1f9207edc8c7:/# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0@if9: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether be:2a:0a:49:06:59 brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet 172.17.0.3/16 brd 172.17.255.255 scope global eth0
        valid_lft forever preferred_lft forever
```

12. Inspect Host Configuration

Use a Docker command to inspect the hostname and the `/etc/hosts` file of the `httpd` container.

```
root@1f9207edc8c7:/# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0@if9: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether be:2a:0a:49:06:59 brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet 172.17.0.3/16 brd 172.17.255.255 scope global eth0
        valid_lft forever preferred_lft forever
```

Monitor Container Stats

Inspect a container created with the lancachenet/ubuntu-nginx image.

Monitor its resource usage and stats using the top command.

```
[root@localhost ~]# docker logs nginx-web
Executing hook /hooks/entrypoint-pre.d/00_asciilogo.sh

  ____      _
 / ___|    / \
| |  |  ___/ _ \
| |  | | |_/ ___ \
| |  | |_| |___/ _ \
|_|  \___|_____/___ \
                    /___ \
                   /___ \
                  /___ \
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                /___ \
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            /___ \
           /___ \
          /___ \
         /___ \
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/___ \

Executing hook /hooks/supervisord-pre.d/20_test_files_setup
Checking if /var/www/ is empty - Directory not empty.. don't touch content
Executing hook /hooks/supervisord-pre.d/21_cleanup_log_files
Cleaning up log files older than 7 days
Starting Supervisord
[root@localhost ~]# docker logs nginx-web2
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2025/11/05 10:50:14 [notice] 1#1: using the "epoll" event method
```

14. Nginx Containers Log Review

Start a new Nginx container.

Review and compare the logs for both Nginx containers

```
[root@localhost ~]# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	N
9ed4dfe89cb5	nginx	"/docker-entrypoint..."	7 seconds ago	Up 6 seconds	0.0.0.0:8081->80/tcp, [::]:8081->80/tcp	n
g1nxw62	nginx	test-nginx:1.0	24 minutes ago	Up 24 minutes	0.0.0.0:8080->80/tcp, [::]:8080->80/tcp	n

```
[root@localhost ~]# docker logs nginx-web2
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2025/11/05 10:50:14 [notice] 1#1: using the "epoll" event method
2025/11/05 10:50:14 [notice] 1#1: nginx/1.29.3
2025/11/05 10:50:14 [notice] 1#1: built by gcc 14.2.0 (Debian 14.2.0-19)
2025/11/05 10:50:14 [notice] 1#1: OS: Linux 5.14.0-624.el9.x86_64
2025/11/05 10:50:14 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1073741816:1073741816
2025/11/05 10:50:14 [notice] 1#1: start worker processes
2025/11/05 10:50:14 [notice] 1#1: start worker process 29
2025/11/05 10:50:14 [notice] 1#1: start worker process 30
2025/11/05 10:50:14 [notice] 1#1: start worker process 31
```

15. System Events & Filters

Examine Docker system events filtered by:

Specific date, and

The last 30 minutes.

Apply two filters simultaneously using name and event.

```
[root@localhost ~]# docker events
^C[root@localhost ~]# docker events --since "2025-11-05T00:00:00" --until "2025-11-05T23:59:59"
2025-11-05T15:52:13.748396517+05:30 image tag sha256:e24a6710ec36b81da6fa5e808c20f9a5b9f7e82f6f7aca024aa5f10352cfd0c4 (maintainer=Lan
Cache.Net Team <team@lan-cache.net>, name=test-nginx:1.0, org.opencontainers.image.ref.name=ubuntu, org.opencontainers.image.version=2
4.04)
2025-11-05T15:52:13.787629292+05:30 image create sha256:e24a6710ec36b81da6fa5e808c20f9a5b9f7e82f6f7aca024aa5f10352cfd0c4 (maintainer=
LanCache.Net Team <team@lan-cache.net>, name=sha256:e24a6710ec36b81da6fa5e808c20f9a5b9f7e82f6f7aca024aa5f10352cfd0c4, org.opencontaine
rs.image.ref.name=ubuntu, org.opencontainers.image.version=24.04)
2025-11-05T15:55:22.073767511+05:30 container create 6dc21c4aebba49ed2281116e67223d8bf15b823ac45ddb6af0e1d90dac023936 (image=test-ngi
```

```
[root@localhost ~]# docker events --filter "name=nginx-web" --filter "event=start"
^C[root@localhost ~]# docker events --since 1h --filter "name=nginx-web" --filter "event=stop"
^C[root@localhost ~]# docker run -it --name cloud-ubuntu --hostname cloudethix.com ubuntu
root@cloudethix:/# hostname
cloudethix.com
```

```
[root@localhost ~]# docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS
cfa5873e3e2e   ubuntu    "/bin/bash"             29 seconds ago Exited (0) 6 seconds ago
cloud-ubuntu   9ec4dfe89cb5   nginx    "/docker-entrypoint..." 8 minutes ago Up 8 minutes    0.0.0.0:8081->80/tcp, [::]:8081
->80/tcp      nginx-web2  1f9207edc8c7   ubuntu    "/bin/bash"             28 minutes ago Exited (0) 17 minutes ago
myubuntu
```

16. Custom Hostname & Logs

Create an Ubuntu container with:

A meaningful name, and

Hostname set to cloudethix.com.

Stop or kill the container.

Check its exit code and review its logs for details.

```
root@cloudethix:/# hostname
cloudethix.com
root@cloudethix:/# exit
exit
```


17. Container Management Operations

Create and start an Ubuntu container with a random name, then rename it to Ubuntu01.

Launch another container named Ubuntu02.

Check the hostname for both containers.

Perform the following:

Pause and unpause Ubuntu02.

Stop, start, and restart Ubuntu01.

Inspect stats and system events for both.

Finally, kill and delete the containers, ensuring all created directories are removed.

```
[root@localhost ~]# docker run -dit ubuntu_new
Unable to find image 'ubuntu_new:latest' locally
docker: Error response from daemon: pull access denied for ubuntu_new, repository does not exist or may require 'docker login': denied: requested access to the resource is denied
```

```
[root@localhost ~]# docker run -dit ubuntu
a8d9682e2853e59ca781a74a513d37d31717a4cfb40cfe35060b29a3dca313c3
[root@localhost ~]# docker ps
docker: unknown command: docker ps
```

Run 'docker --help' for more information

```
[root@localhost ~]# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	
AMES						N
a8d9682e2853	ubuntu	"/bin/bash"	9 seconds ago	Up 8 seconds		n
ifty_cohen						
9ec4dfe89cb5	nginx	"/docker-entrypoint..."	11 minutes ago	Up 11 minutes	0.0.0.0:8081->80/tcp, [::]:8081->80/tcp	n
ginx-web2						
6dc21c4aebba	test-nginx:1.0	"/bin/bash -e /init/..."	36 minutes ago	Up 35 minutes	0.0.0.0:8080->80/tcp, [::]:8080->80/tcp	n
ginx-web						

```
[root@localhost ~]# docker rename nifty_cohen Ubuntu01
```

```
[root@localhost ~]# docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
a8d9682e2853	ubuntu	"/bin/bash"	About a minute ago	Up About a minute	
	Ubuntu01				

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
cfa5873e3e2e	ubuntu	"/bin/bash"	5 minutes ago	Exited (0) 4 minutes ago	
	cloud-ubuntu				
9ec4dfe89cb5	nginx	"/docker-entrypoint..."	12 minutes ago	Up 12 minutes	0.0.0.0:8081->80/tcp
8081->80/tcp	nginx-web2				
1f9207edc8c7	ubuntu	"/bin/bash"	33 minutes ago	Exited (0) 21 minutes ago	
	myubuntu				
6dc21c4aebba	test-nginx:1.0	"/bin/bash -e /init/..."	37 minutes ago	Up 37 minutes	0.0.0.0:8080->80/tcp
8080->80/tcp	nginx-web				
060bc70c9d4e	ubuntu	"/bin/bash"	2 hours ago	Exited (127) 2 hours ago	
	lucid_curran				
9cc948c91bcc	ubuntu	"/bin/bash"	2 hours ago	Created	
	objective_pascal				
f56c84709670	ubuntu	"bash"	2 hours ago	Exited (0) 2 hours ago	
	boring_mendel				
a29b356068a4	hello-world	"/hello"	2 hours ago	Exited (0) 2 hours ago	
	distracted_mestorf				
0d283fe150ec	hello-world	"/hello"	2 hours ago	Exited (0) 2 hours ago	
	zen_allen				

```
[root@localhost ~]# docker run -dit --name Ubuntu02 ubuntu
e58126069d14127153bea0649510d6718a5a7a3d4fff39895a619c1f23d627ca
```

```
[root@localhost ~]# docker exec -it Ubuntu01 hostname
```

```
a8d9682e2853
```

```
[root@localhost ~]# docker exec -it Ubuntu02 hostname
```

```
e58126069d14
```

```
[root@localhost ~]# docker pause Ubuntu0
```

```
Error response from daemon: No such container: Ubuntu0
```

```
[root@localhost ~]# docker pause Ubuntu01
```

```
Ubuntu01
```

```
[root@localhost ~]# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
	NAMES				
e58126069d14	ubuntu	"/bin/bash"	57 seconds ago	Up 56 seconds	
	Ubuntu02				
a8d9682e2853	ubuntu	"/bin/bash"	3 minutes ago	Up 3 minutes (Paused)	
	Ubuntu01				

```
[root@localhost ~]# docker unpause Ubuntu01
Ubuntu01
[root@localhost ~]# docker stop Ubuntu01
Ubuntu01
[root@localhost ~]# docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS
AMES
e58126069d14   ubuntu   "/bin/bash"             2 minutes ago   Up 2 minutes
buntu02
9ec4dfe89cb5   nginx    "/docker-entrypoint..." 15 minutes ago   Up 15 minutes   0.0.0.0:8081->80/tcp, [::]:8081->80/tcp
ginx-web2
```

```
[root@localhost ~]# docker start Ubuntu01
Ubuntu01
[root@localhost ~]# docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS
AMES
e58126069d14   ubuntu   "/bin/bash"             2 minutes ago   Up 2 minutes
buntu02
CONTAINER ID   NAME      CPU %     MEM USAGE / LIMIT   MEM %     NET I/O   BLOCK I/O   PIDS
a8d9682e2853   Ubuntu01   --        -- / --              --        --        --         --
e58126069d14   Ubuntu02   --        -- / --              --        --        --         --
```

18. DockerHub Repository Setup
Create a DockerHub account.
Set up a repository with a meaningful name.

The screenshot shows the Docker Hub interface for a repository named 'vinayakdeokar/ubuntu-nginx'. The page is titled 'Settings' and shows the 'Image security insight settings' section. The settings are currently set to 'None'.

Repositories / [ubuntu-nginx](#) / [Settings](#)

vinayakdeokar/ubuntu-nginx

Created 2 minutes ago · 0 · 0

[test to docker hub](#)

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Image security insight settings
Features and controls that help you uncover, understand, and fix issues with your container images in Docker Hub

☐ **Docker Scout image analysis** RECOMMENDED
Know when new CVEs impact your images, learn where they're introduced, and get recommendations for remediation options. [Enable repos in bulk on Scout Dashboard](#)

☐ **Static scanning**
Images will be scanned once when pushed and the vulnerability report saved at that point in time.

☒ **None**

Docker commands [Public view](#)

To push a new tag to this repository:

```
docker push vinayakdeokar/ubuntu-nginx:tagname
```

Using 0 of 1 private repositories.