

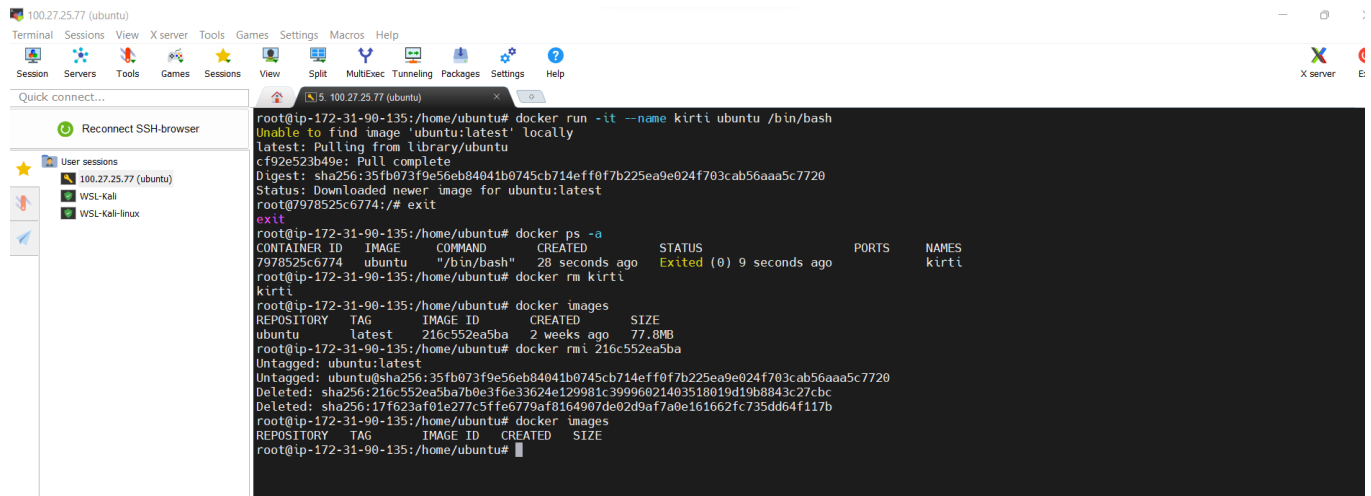
Docker Task 2

By-Kirti Nagpal

1. To Remove Image :

Command for removing image— docker rmi <image id>

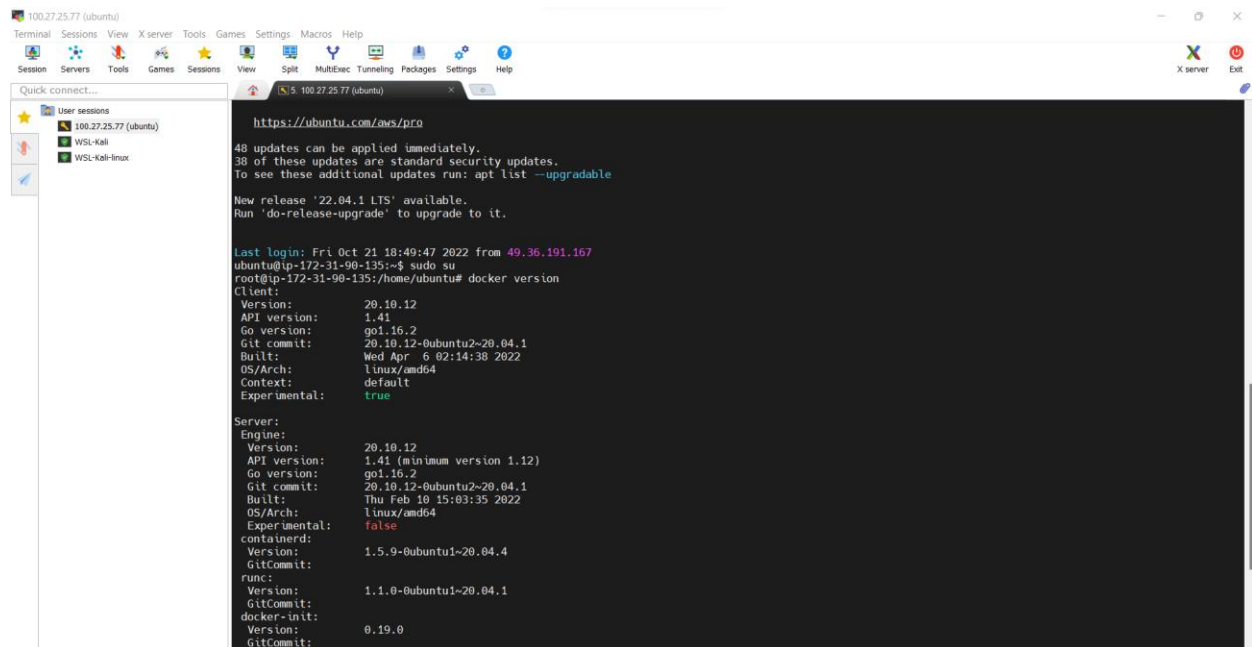
This command is used to build an image from a specified docker file.



```
root@ip-172-31-90-135:/home/ubuntu# docker run -it --name kirti ubuntu /bin/bash
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
cf92e523b49e: Pull complete
Digest: sha256:35fb073f9e56eb84041b0745cb714eff0f7b225ea9e024f703cab56aaa5c7720
Status: Downloaded newer image for ubuntu:latest
root@ip-172-31-90-135:/home/ubuntu# exit
exit
root@ip-172-31-90-135:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
7978525c6774   ubuntu   "/bin/bash"   28 seconds ago   Exited (0) 9 seconds ago   kirti
root@ip-172-31-90-135:/home/ubuntu# docker rm kirti
kirti
root@ip-172-31-90-135:/home/ubuntu# docker images
REPOSITORY    TAG       IMAGE ID       CREATED       SIZE
ubuntu        latest    216c552ea5ba   2 weeks ago   77.8MB
root@ip-172-31-90-135:/home/ubuntu# docker rmi 216c552ea5ba
Untagged: ubuntu:latest
Deleted: sha256:216c552ea5ba7b0e3f6e33624e129981c39996021403518019d19b8843c27cbc
Deleted: sha256:17f623af01e277c5ffe6779af8164907de02d9af7a0e161662fc735dd64f117b
root@ip-172-31-90-135:/home/ubuntu# docker images
REPOSITORY    TAG       IMAGE ID       CREATED       SIZE
root@ip-172-31-90-135:/home/ubuntu#
```

2. Docker commands :

1.docker version - This will render all version information in an easy to read layout.



```
https://ubuntu.com/awx/pro

48 updates can be applied immediately.
38 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

New release '22.04.1 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

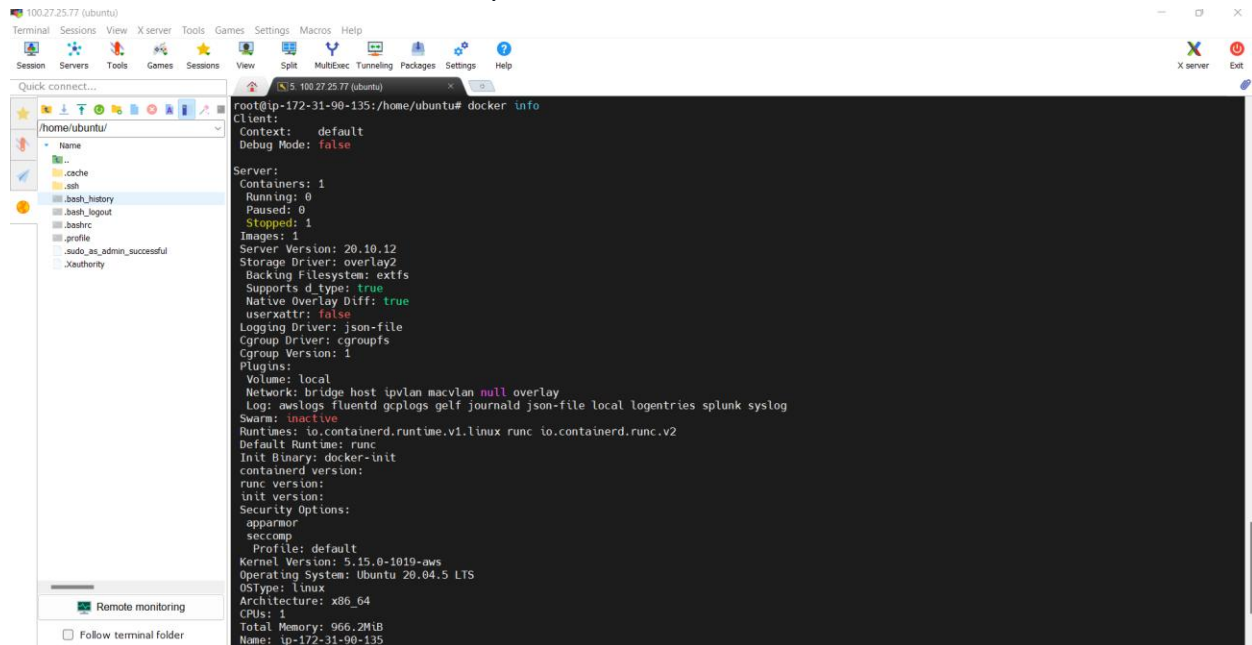
Last login: Fri Oct 21 18:49:47 2022 from 49.36.191.167
ubuntu@ip-172-31-90-135:~$ sudo su
root@ip-172-31-90-135:/home/ubuntu# docker version
Client:
 Version:           20.10.12
 API version:       1.41
 Go version:        go1.16.2
 Git commit:        20.10.12-0ubuntu2~20.04.1
 Built:             Wed Apr  6 02:14:38 2022
 OS/Arch:           linux/amd64
 Context:           default
 Experimental:      true

Server:
 Engine:
  Version:          20.10.12
  API version:      1.41 (minimum version 1.12)
  Go version:       go1.16.2
  Git commit:       20.10.12-0ubuntu2~20.04.1
  Built:           Thu Feb 10 15:03:35 2022
  OS/Arch:         linux/amd64
  Experimental:     false
 containerd:
  Version:          1.5.9-0ubuntu1~20.04.4
  GitCommit:
 runc:
  Version:          1.1.0-0ubuntu1~20.04.1
  GitCommit:
 docker-init:
  Version:          0.19.0
  GitCommit:
```

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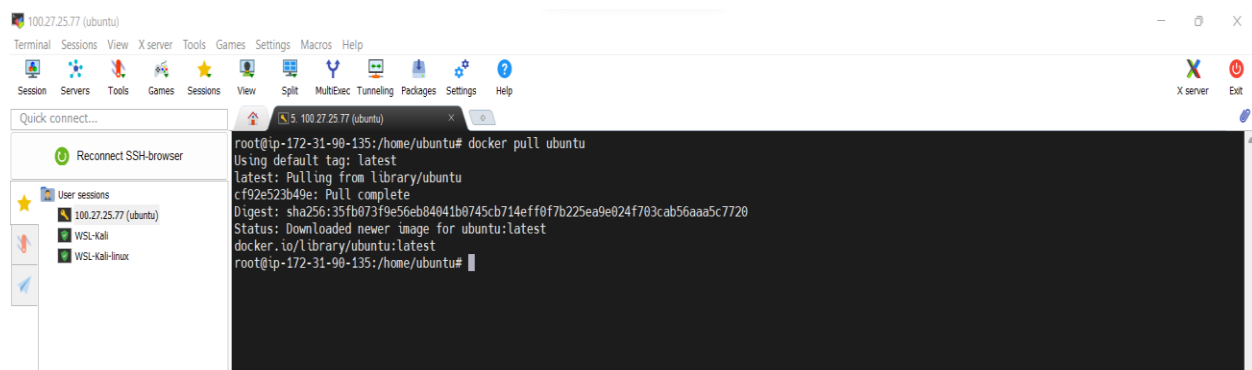
2.docker info -This command displays system wide information regarding the Docker installation. Information displayed includes the kernel version, number of containers and images. The number of images shown is the number of unique images. The same image tagged under different names is counted only once.



```
root@ip-172-31-90-135:/home/ubuntu# docker info
Client:
Context:    default
Debug Mode: false

Server:
Containers: 1
Running: 0
Paused: 0
Stopped: 1
Images: 1
Server Version: 20.10.12
Storage Driver: overlay2
Backing Filesystem: extfs
Supports d.type: true
Native Overlay Diff: true
userxattr: false
Logging Driver: json-file
Cgroup Driver: cgroupfs
Cgroup Version: 1
Plugins:
Volume: local
Network: bridge host ipvlan macvlan null overlay
Log: awslogs fluentd gcplogs gelf journald json-file local logentries splunk syslog
Swarm: inactive
Runtimes: io.containerd.runtime.v1.linux runc io.containerd.runc.v2
Default Runtime: runc
Init Binary: docker-init
containerd version:
runc version:
init version:
Security Options:
apparmor
seccomp
Profiles: default
Kernel Version: 5.15.0-1019-aws
Operating System: Ubuntu 20.04.5 LTS
OSType: linux
Architecture: x86_64
CPUs: 1
Total Memory: 966.2MiB
Name: ip-172-31-90-135
```

3.docker pull -This command is used to pull images from the **docker** repository(hub.docker.com)

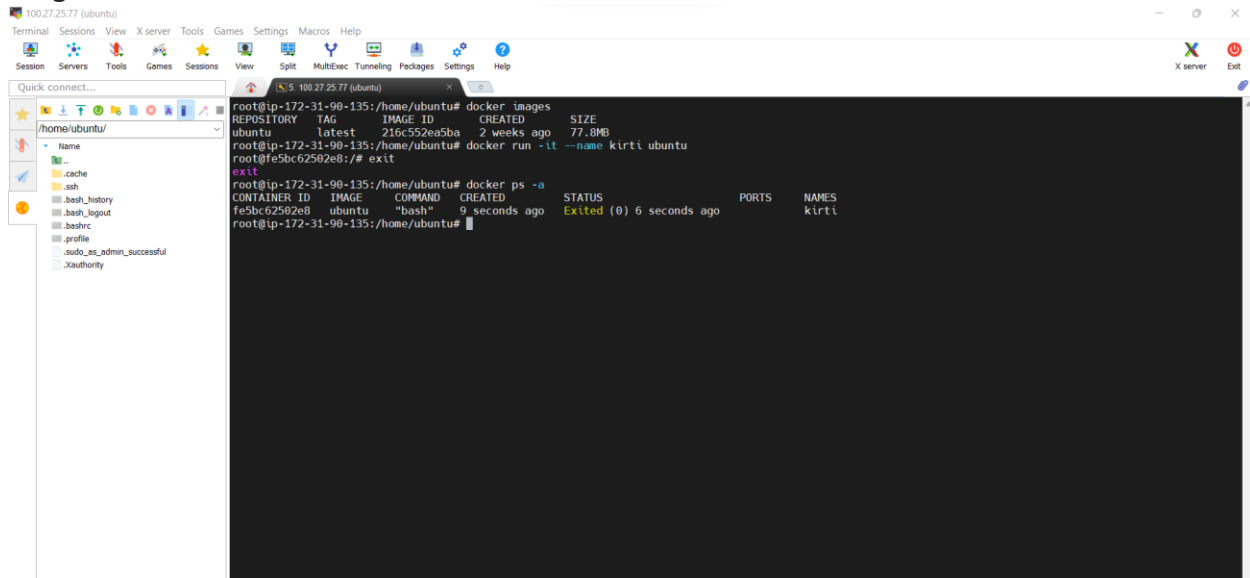


```
root@ip-172-31-90-135:/home/ubuntu# docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
cf92e523b49e: Pull complete
Digest: sha256:35fb073f9e56eb84041b0745cb714eff0f7b225ea9e024f703cab56aaa5c7720
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
root@ip-172-31-90-135:/home/ubuntu#
```

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4. docker run -it -d <image name> -This command is used to create a container from an image

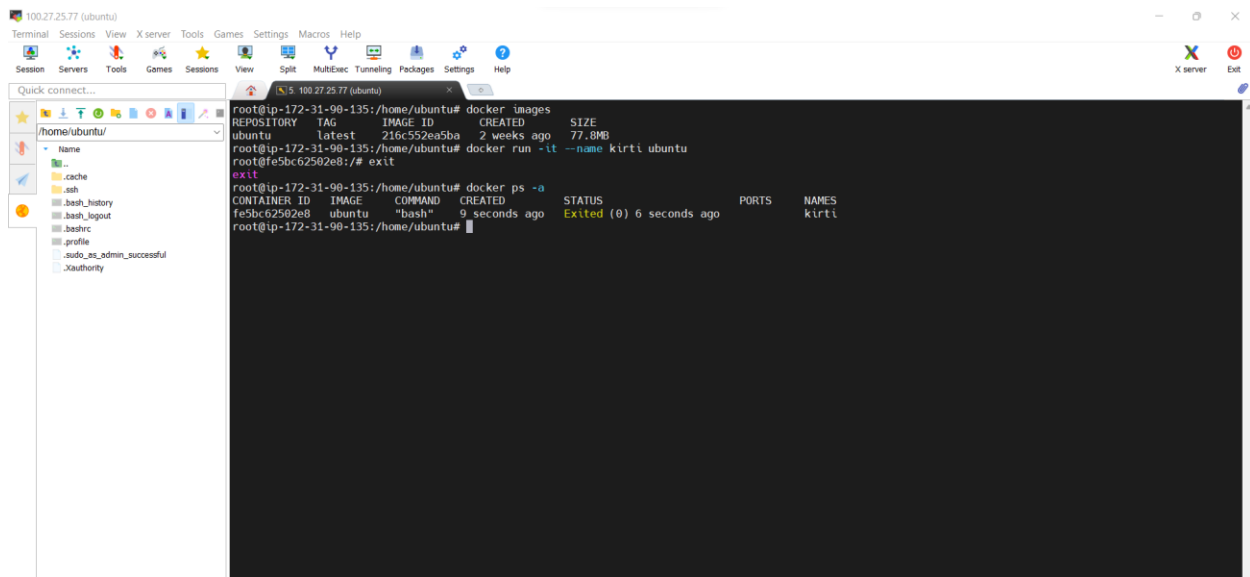


The screenshot shows a terminal window with the following commands and output:

```
root@ip-172-31-90-135:/home/ubuntu# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu latest 216c552ea5ba 2 weeks ago 77.8MB
root@ip-172-31-90-135:/home/ubuntu# docker run -it --name kirti ubuntu
root@fe5bc62502e8:/# exit
exit
root@ip-172-31-90-135:/home/ubuntu# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
fe5bc62502e8 ubuntu "bash" 9 seconds ago Exited (0) 6 seconds ago kirti
root@ip-172-31-90-135:/home/ubuntu#
```

Here I have used docker image command for listing all the images and after that used the docker run --name kirti ubuntu command for creating and running the container

5. docker ps -a -This command is used to show all the running and exited containers.



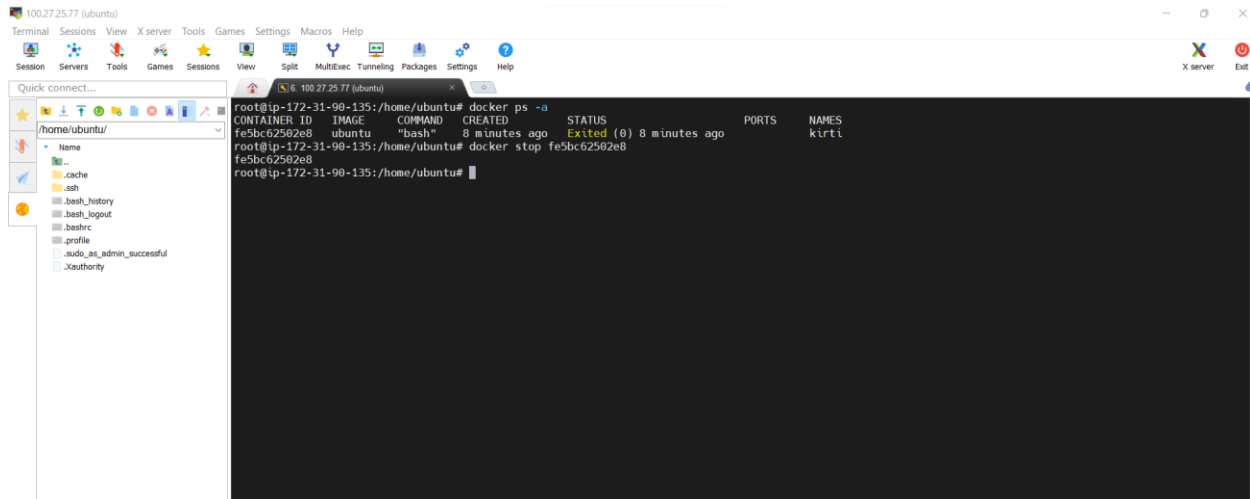
The screenshot shows a terminal window with the following commands and output:

```
root@ip-172-31-90-135:/home/ubuntu# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu latest 216c552ea5ba 2 weeks ago 77.8MB
root@ip-172-31-90-135:/home/ubuntu# docker run -it --name kirti ubuntu
root@fe5bc62502e8:/# exit
exit
root@ip-172-31-90-135:/home/ubuntu# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
fe5bc62502e8 ubuntu "bash" 9 seconds ago Exited (0) 6 seconds ago kirti
root@ip-172-31-90-135:/home/ubuntu#
```

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6. docker stop<container id>-This command stops a running container .

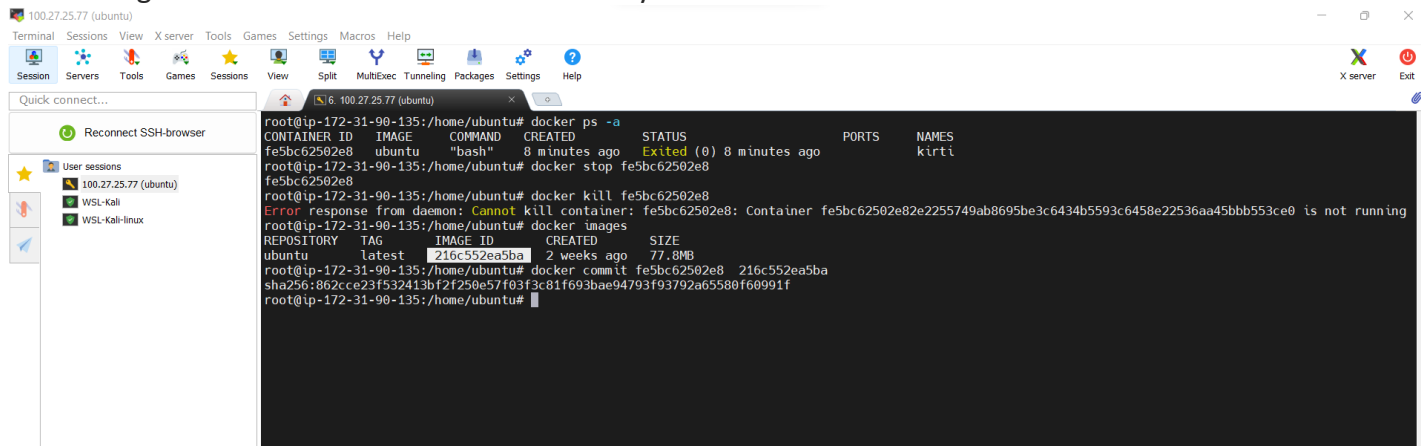


The screenshot shows a terminal window with the following commands and output:

```
root@ip-172-31-90-135:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
fe5bc62502e8   ubuntu   "bash"    8 minutes ago   Exited (0) 8 minutes ago   kirti

root@ip-172-31-90-135:/home/ubuntu# docker stop fe5bc62502e8
fe5bc62502e8
root@ip-172-31-90-135:/home/ubuntu#
```

7. docker commit<conatainer id> <username/imagename>This command creates a new image of an edited container on the local system.



The screenshot shows a terminal window with the following commands and output:

```
root@ip-172-31-90-135:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
fe5bc62502e8   ubuntu   "bash"    8 minutes ago   Exited (0) 8 minutes ago   kirti

root@ip-172-31-90-135:/home/ubuntu# docker stop fe5bc62502e8
fe5bc62502e8

root@ip-172-31-90-135:/home/ubuntu# docker kill fe5bc62502e8
Error response from daemon: Cannot kill container: fe5bc62502e8: Container fe5bc62502e82255749ab8695be3c6434b5593c6458e22536aa45bbb553ce0 is not running

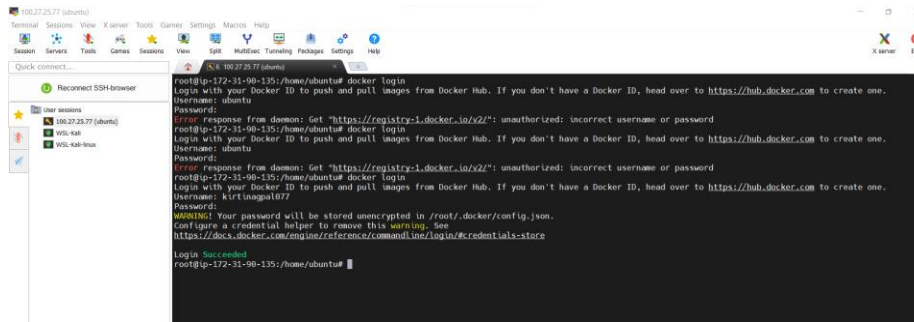
root@ip-172-31-90-135:/home/ubuntu# docker images
REPOSITORY   TAG       IMAGE ID       CREATED        SIZE
ubuntu       latest    216c552ea5ba   2 weeks ago   77.8MB

root@ip-172-31-90-135:/home/ubuntu# docker commit fe5bc62502e8 216c552ea5ba
sha256:862cce23f532413bf2f250e57f03f3c81f693bae94793f93792a65580f60991f
root@ip-172-31-90-135:/home/ubuntu#
```

8. docker login - This command is used to login to the docker hub repository

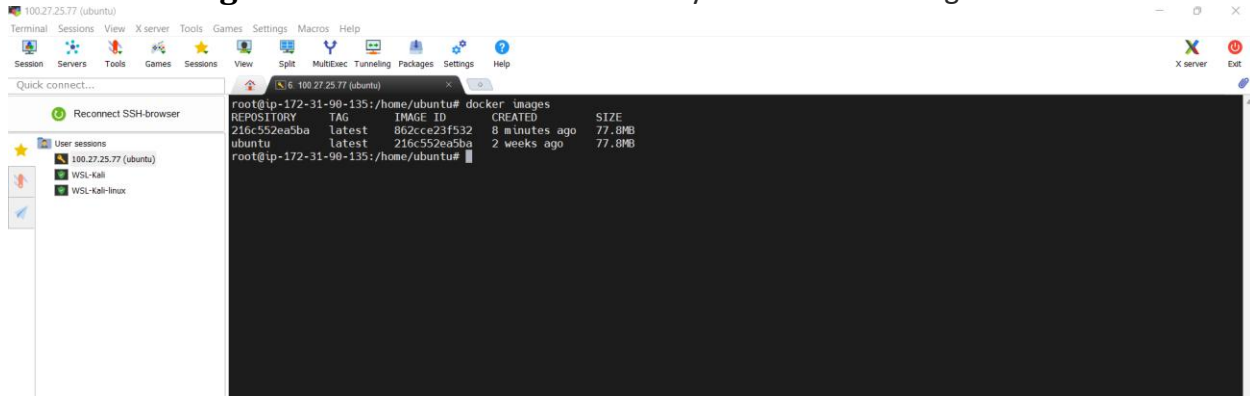
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A screenshot of a terminal window titled '100.27.25.77 (ubuntu)'. The terminal shows the user 'root' at 'ip-172-31-90-135:/home/ubuntu' attempting to log in to Docker Hub. The user enters 'docker login', followed by 'username: ubuntu' and 'password:'. The terminal displays two error messages: 'Error response from daemon: Get "https://registry-1.docker.io/v2/": unauthorized: incorrect username or password' and 'Error response from daemon: Get "https://registry-1.docker.io/v2/": unauthorized: incorrect username or password'. The user then enters 'krtinagpal077' as the password. The terminal shows a warning: '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'. Finally, the terminal shows 'Login Succeeded' and the prompt returns to 'root@ip-172-31-90-135:/home/ubuntu#'.

9.docker images-This command lists all the locally stored docker images.



A screenshot of a terminal window titled '100.27.25.77 (ubuntu)'. The terminal shows the user 'root' at 'ip-172-31-90-135:/home/ubuntu' running the command 'docker images'. The terminal displays the following output:

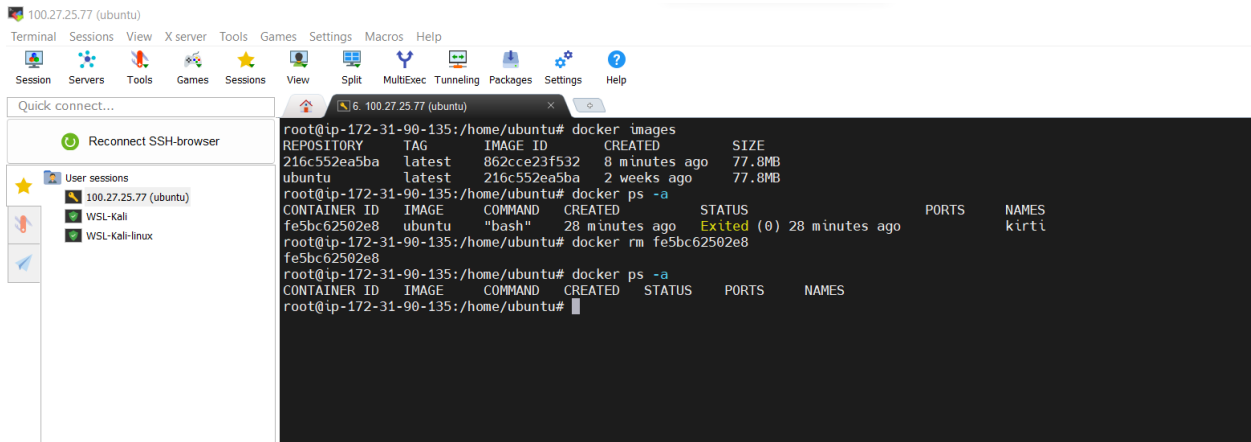
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
216c552ea5ba	latest	862cce23f532	8 minutes ago	77.8MB
ubuntu	latest	216c552ea5ba	2 weeks ago	77.8MB

The terminal prompt returns to 'root@ip-172-31-90-135:/home/ubuntu#'.

10. docker rm <container id>This command is used to delete a stopped container.

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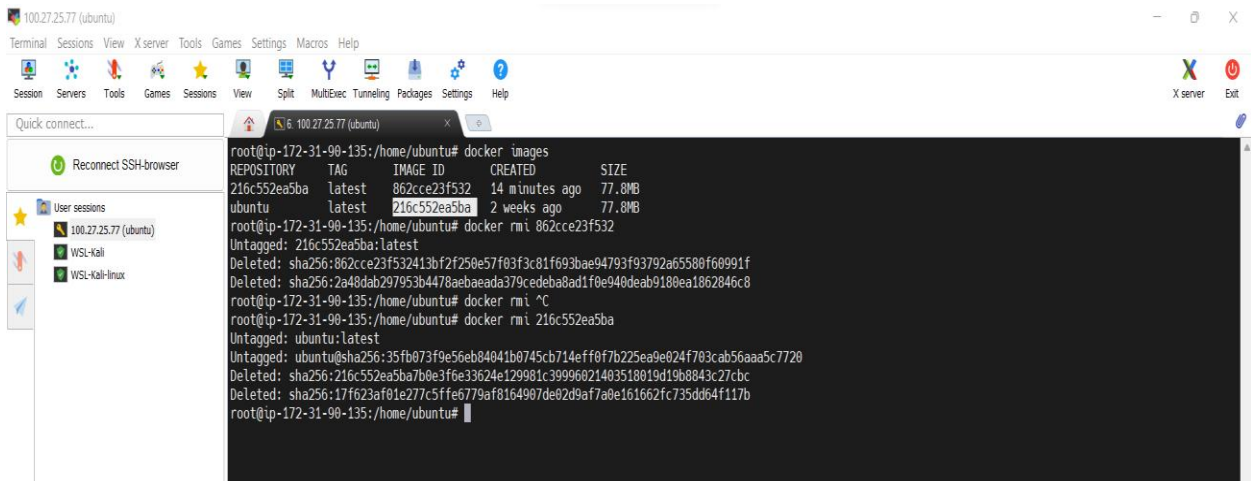


The screenshot shows a terminal window with the following commands and output:

```
root@ip-172-31-90-135:/home/ubuntu# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
216c552ea5ba latest 862cce23f532 8 minutes ago 77.8MB
ubuntu latest 216c552ea5ba 2 weeks ago 77.8MB

root@ip-172-31-90-135:/home/ubuntu# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
fe5bc62502e8 ubuntu "bash" 28 minutes ago Exited (0) 28 minutes ago
root@ip-172-31-90-135:/home/ubuntu# docker rm fe5bc62502e8
fe5bc62502e8
root@ip-172-31-90-135:/home/ubuntu# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
root@ip-172-31-90-135:/home/ubuntu#
```

11.docker rmi <image-id>-This command is used to build an image from a specified docker file.



The screenshot shows a terminal window with the following commands and output:

```
root@ip-172-31-90-135:/home/ubuntu# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
216c552ea5ba latest 862cce23f532 14 minutes ago 77.8MB
ubuntu latest 216c552ea5ba 2 weeks ago 77.8MB

root@ip-172-31-90-135:/home/ubuntu# docker rmi 862cce23f532
Untagged: 216c552ea5ba:latest
Deleted: sha256:862cce23f532413bf2f250e57f03f3c81f693bae94793f93792a65580f60991f
Deleted: sha256:2a48dab297953b4478aebaeada379cedeba8ad1f0e940deab9180ea1862846c8

root@ip-172-31-90-135:/home/ubuntu# docker rmi ^C
root@ip-172-31-90-135:/home/ubuntu# docker rmi 216c552ea5ba
Untagged: ubuntu:latest
Untagged: ubuntu@sha256:35fb073f9e56eb84041b0745cb714eff0f7b225ea9e024f703cab56aaa5c7720
Deleted: sha256:216c552ea5ba7b0e3f6e33624e129981c39996021403518019d19b8843c27cbc
Deleted: sha256:17f623af01e277c5ffe6779af8164907de02d9af7a0e161662fc735dd64f117b

root@ip-172-31-90-135:/home/ubuntu#
```

12.docker history <imageid>-This command tell the history of a particular image.

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