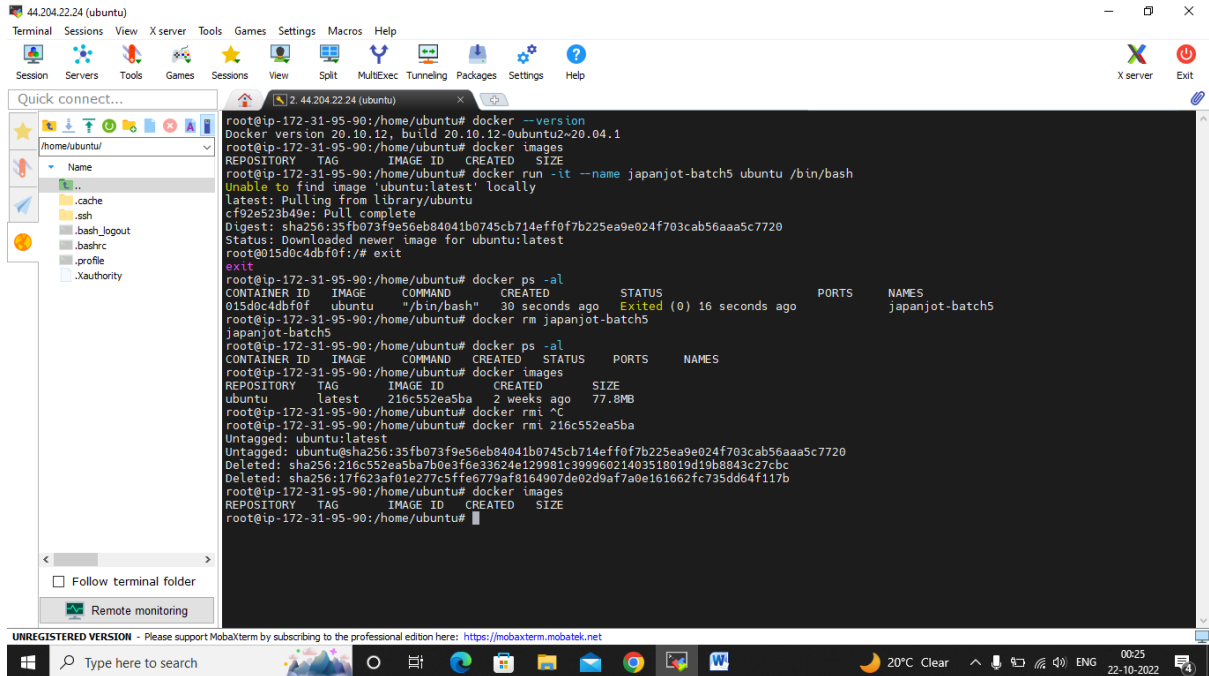


Docker Commands

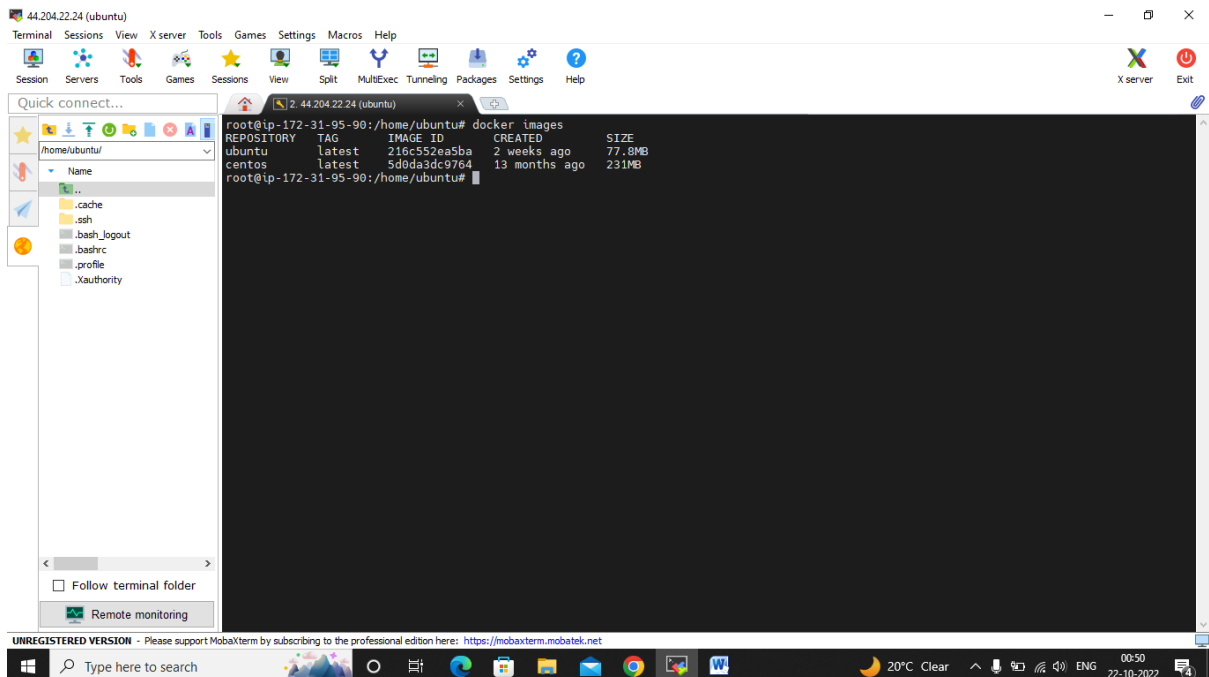
Docker Removing Images Steps



```
root@ip-172-31-95-90:/home/ubuntu# docker --version
Docker version 20.10.12, build 20.10.12-0ubuntu2~20.04.1
root@ip-172-31-95-90:/home/ubuntu# docker images
REPOSITORY    TAG       IMAGE ID   CREATED   SIZE
root@ip-172-31-95-90:/home/ubuntu# docker run -it --name japanjot-batch5 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-172-31-95-90:/home/ubuntu# exit
root@ip-172-31-95-90:/home/ubuntu# docker ps -al
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
015d0c4dbf0f   ubuntu   "/bin/bash"   30 seconds ago   Exited(0)   16 seconds ago   japanjot-batch5
root@ip-172-31-95-90:/home/ubuntu# docker rm japanjot-batch5
japanjot-batch5
root@ip-172-31-95-90:/home/ubuntu# docker ps -al
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
root@ip-172-31-95-90:/home/ubuntu# docker images
REPOSITORY    TAG       IMAGE ID   CREATED   SIZE
ubuntu        latest    216c552ea5ba   2 weeks ago   77.8MB
root@ip-172-31-95-90:/home/ubuntu# docker rmi ^C
root@ip-172-31-95-90:/home/ubuntu# docker rmi 216c552ea5ba
Untagged: ubuntu:latest
Deleted: sha256:216c552ea5ba7b0e3f6e33624e129981c39996021403518019d19b8843c27cbc
Deleted: sha256:17f623af01e277c5ffe6779af8164907de02d9af7a0e161662fc735dd64f117b
root@ip-172-31-95-90:/home/ubuntu# docker images
REPOSITORY    TAG       IMAGE ID   CREATED   SIZE
root@ip-172-31-95-90:/home/ubuntu#
```

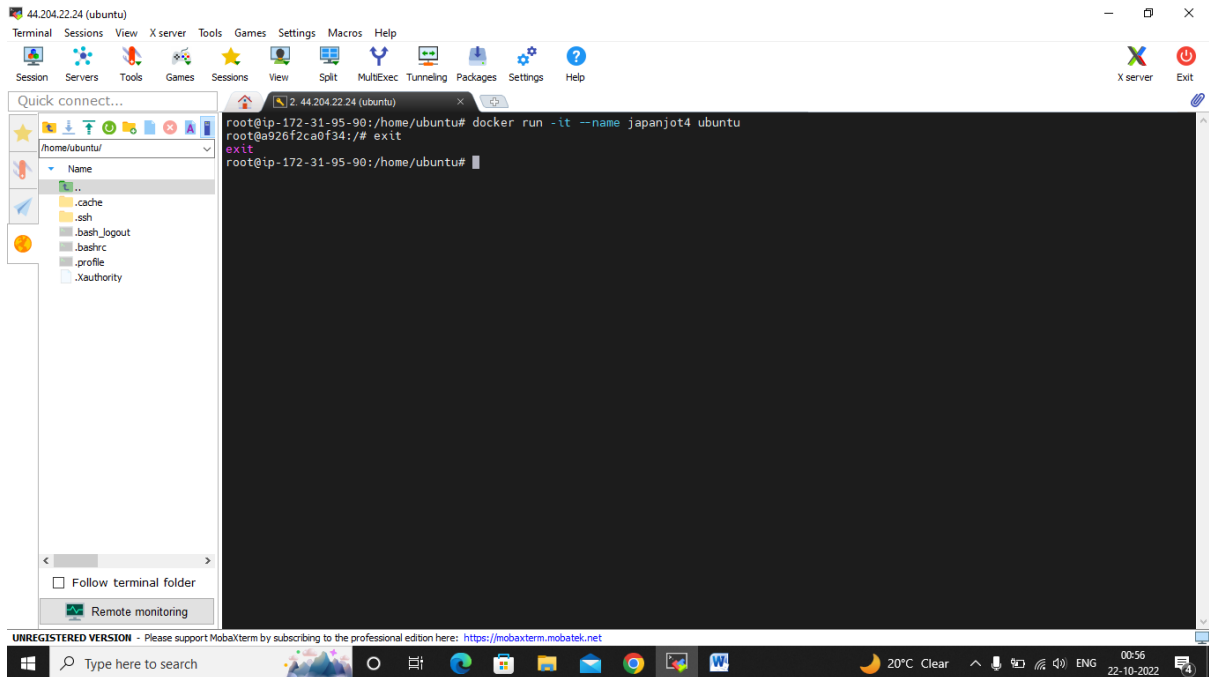
Docker commands overview

1) Docker images : To see all images present in local.



```
root@ip-172-31-95-90:/home/ubuntu# docker images
REPOSITORY    TAG       IMAGE ID   CREATED   SIZE
ubuntu        latest    216c552ea5ba   2 weeks ago   77.8MB
centos         latest    5d0da3dc9764   13 months ago   231MB
root@ip-172-31-95-90:/home/ubuntu#
```

2) Docker run : To create and start container



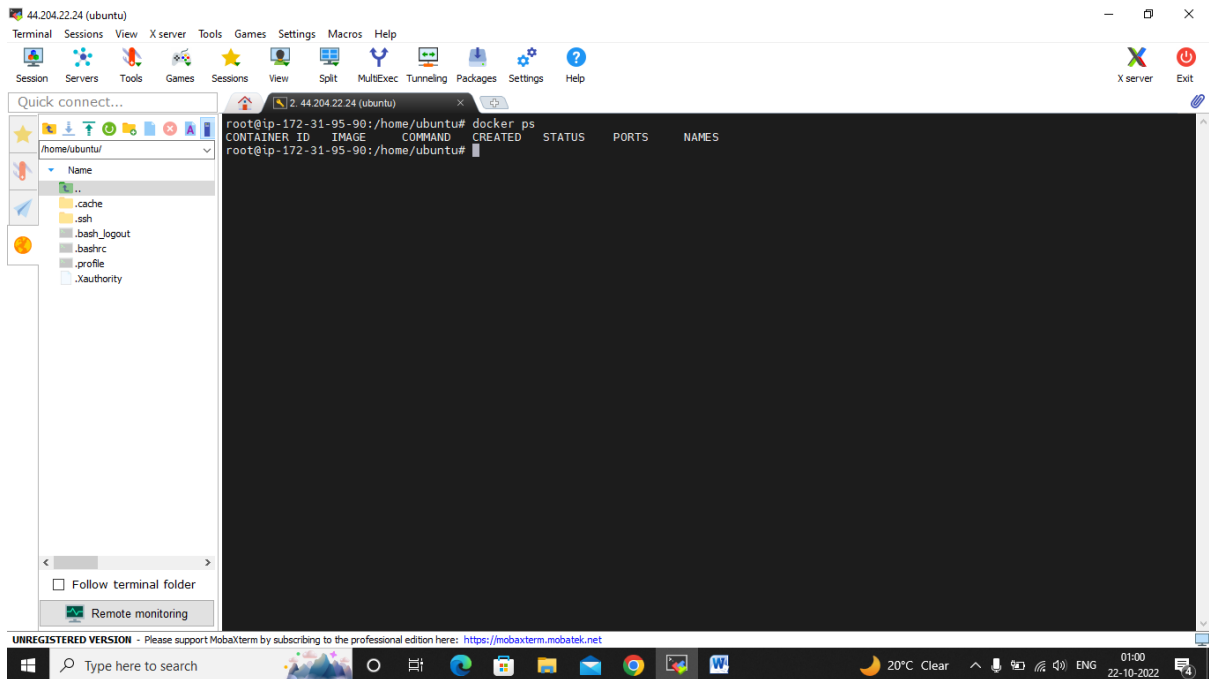
The screenshot shows a MobaXterm terminal window with the following commands and output:

```
root@ip-172-31-95-90:/home/ubuntu# docker run -it --name japanjot4 ubuntu
root@a926f2ca0f34:/# exit
exit
root@ip-172-31-95-90:/home/ubuntu#
```

The terminal window also displays a file explorer on the left side with the following files:

- .cache
- .ssh
- .bash_logout
- .bashrc
- .profile
- .xauthority

3) Docker ps (process status) : To see only running container



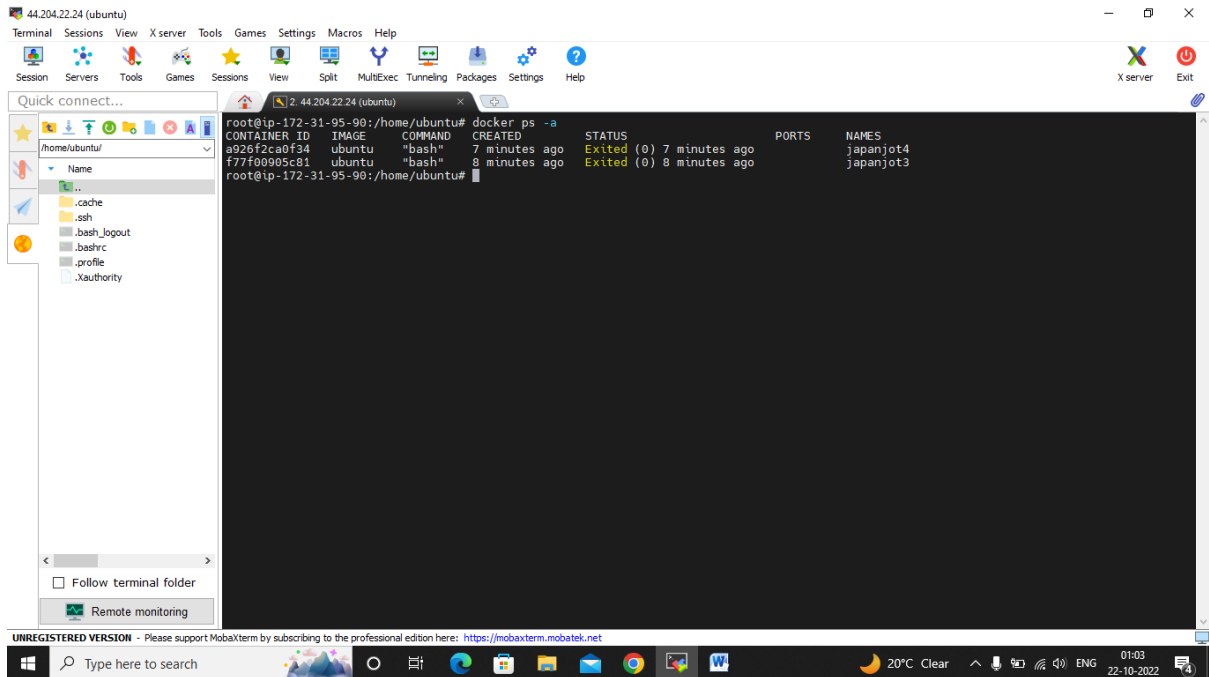
The screenshot shows a MobaXterm terminal window with the following command and output:

```
root@ip-172-31-95-90:/home/ubuntu# docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
root@ip-172-31-95-90:/home/ubuntu#
```

The terminal window also displays a file explorer on the left side with the following files:

- .cache
- .ssh
- .bash_logout
- .bashrc
- .profile
- .xauthority

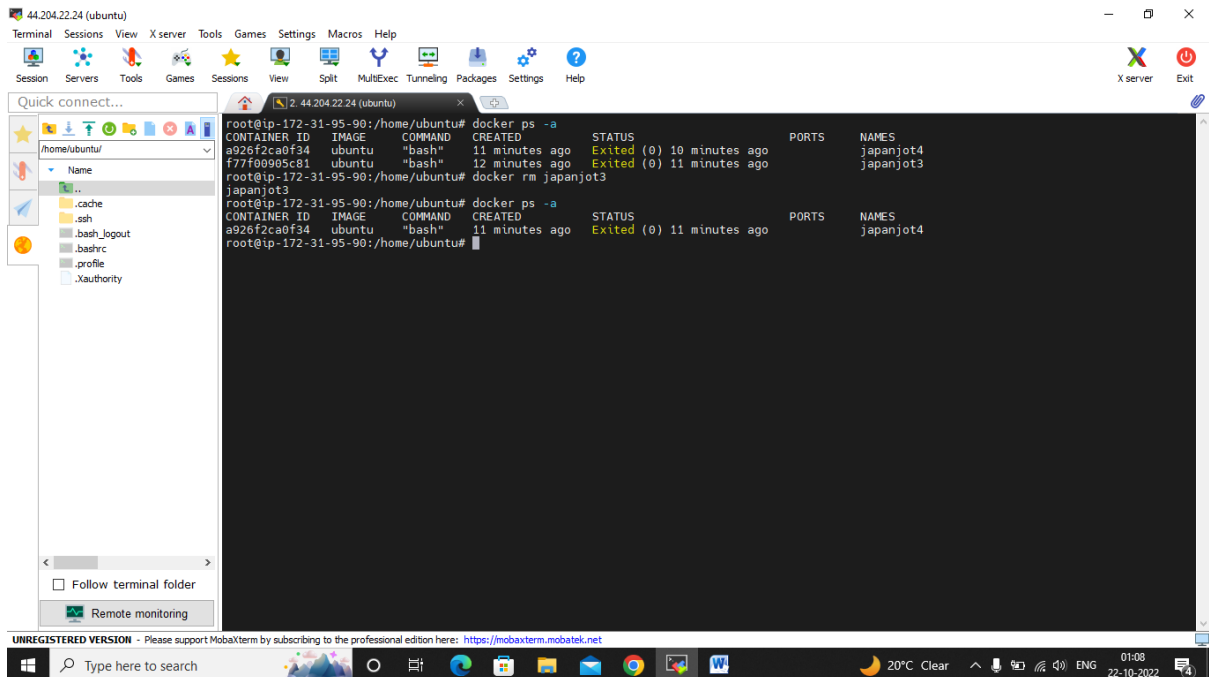
4) Docker ps -a : To see all container and there status



The screenshot shows a MobaXterm terminal window connected to an Ubuntu server at IP 44.204.22.24. The terminal displays the output of the command `docker ps -a`. The output is a table with columns: CONTAINER ID, IMAGE, COMMAND, CREATED, STATUS, PORTS, and NAMES. Two containers are listed: `japanjot4` and `japanjot3`, both with status `Exited (0)`.

```
root@ip-172-31-95-90:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
a926f2ca0f34   ubuntu   "bash"    7 minutes ago   Exited (0) 7 minutes ago           japanjot4
f77f00905c81   ubuntu   "bash"    8 minutes ago   Exited (0) 8 minutes ago           japanjot3
root@ip-172-31-95-90:/home/ubuntu#
```

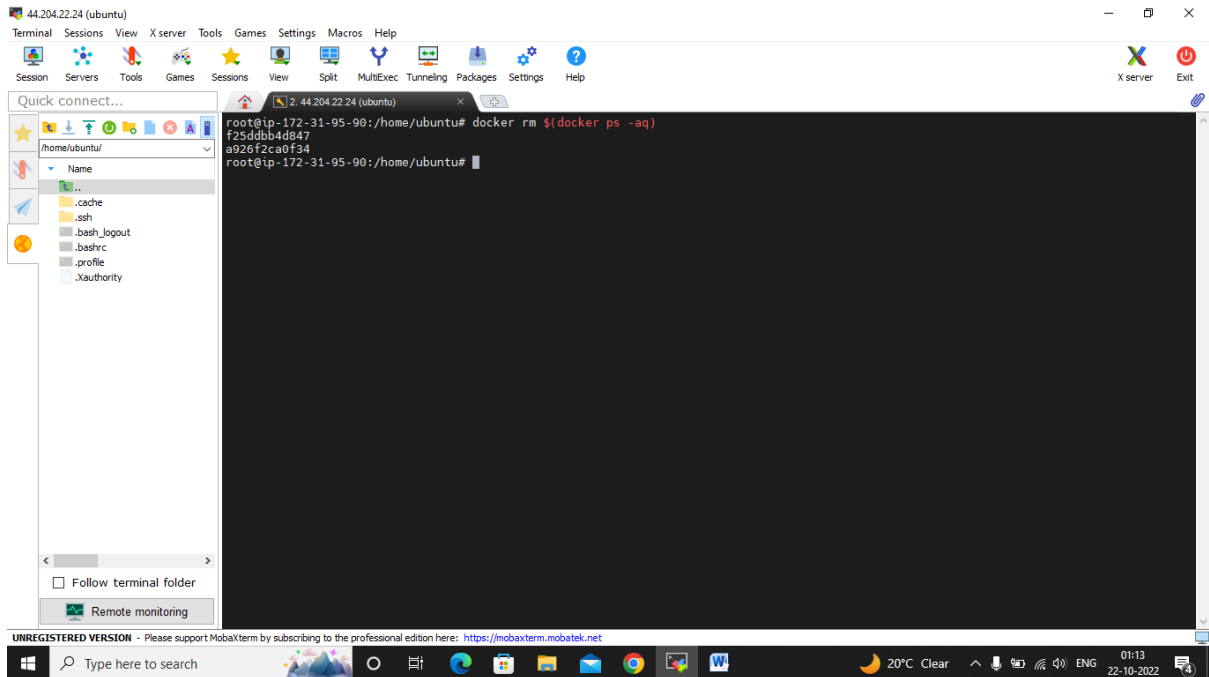
5) Docker rm : To remove container



The screenshot shows the same MobaXterm terminal window. The user has entered the command `docker rm japanjot3`, which successfully removes the container. Subsequently, the user runs `docker ps -a` again, and the output shows only the `japanjot4` container remaining.

```
root@ip-172-31-95-90:/home/ubuntu# docker rm japanjot3
japanjot3
root@ip-172-31-95-90:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
a926f2ca0f34   ubuntu   "bash"    11 minutes ago   Exited (0) 11 minutes ago           japanjot4
root@ip-172-31-95-90:/home/ubuntu#
```

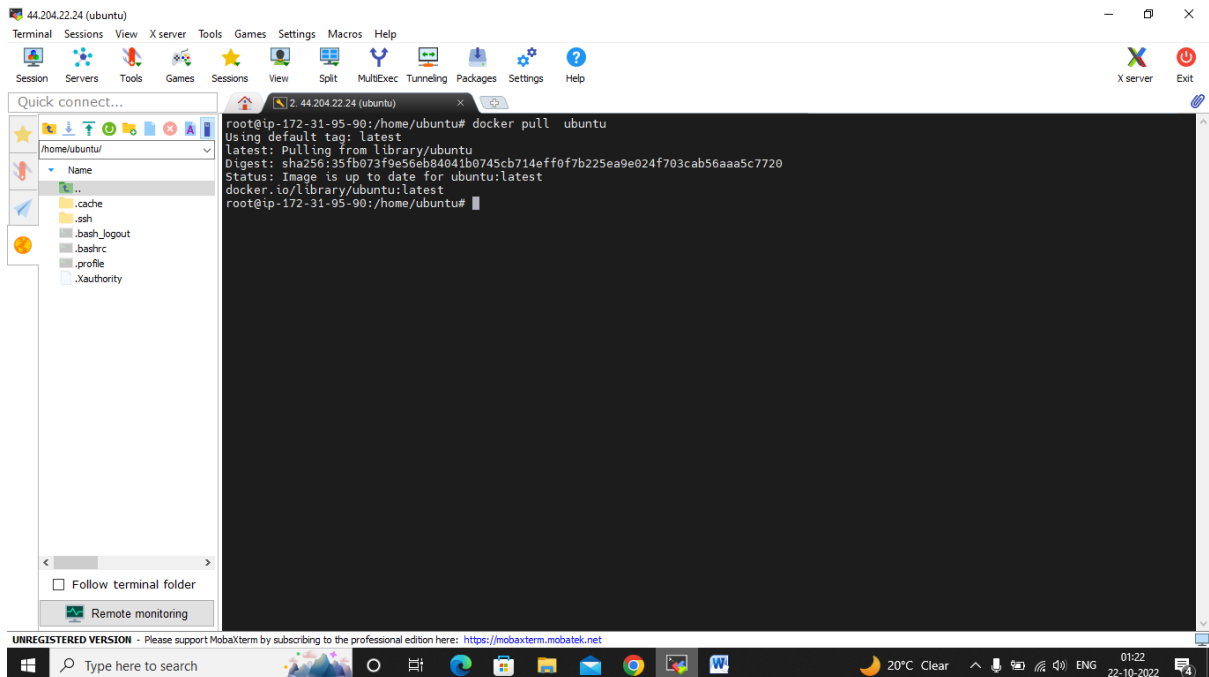
6) **Docker rm \$(docker ps -aq)** : To remove all container



The screenshot shows the MobaXterm application window. On the left is a 'Quick connect...' sidebar with a file tree for '/home/ubuntu' containing files like '.cache', '.ssh', '.bash_logout', '.bashrc', '.profile', and '.xauthority'. The main terminal pane shows a root shell prompt at 'root@ip-172-31-95-90:/home/ubuntu#'. The command 'docker rm \$(docker ps -aq)' has been entered and executed, resulting in three lines of output: 'f25d4bb4d847', 'a926f2ca0f34', and 'root@ip-172-31-95-90:/home/ubuntu#'. The bottom status bar indicates 'UNREGISTERED VERSION' and provides a link to the professional edition.

```
root@ip-172-31-95-90:/home/ubuntu# docker rm $(docker ps -aq)
f25d4bb4d847
a926f2ca0f34
root@ip-172-31-95-90:/home/ubuntu#
```

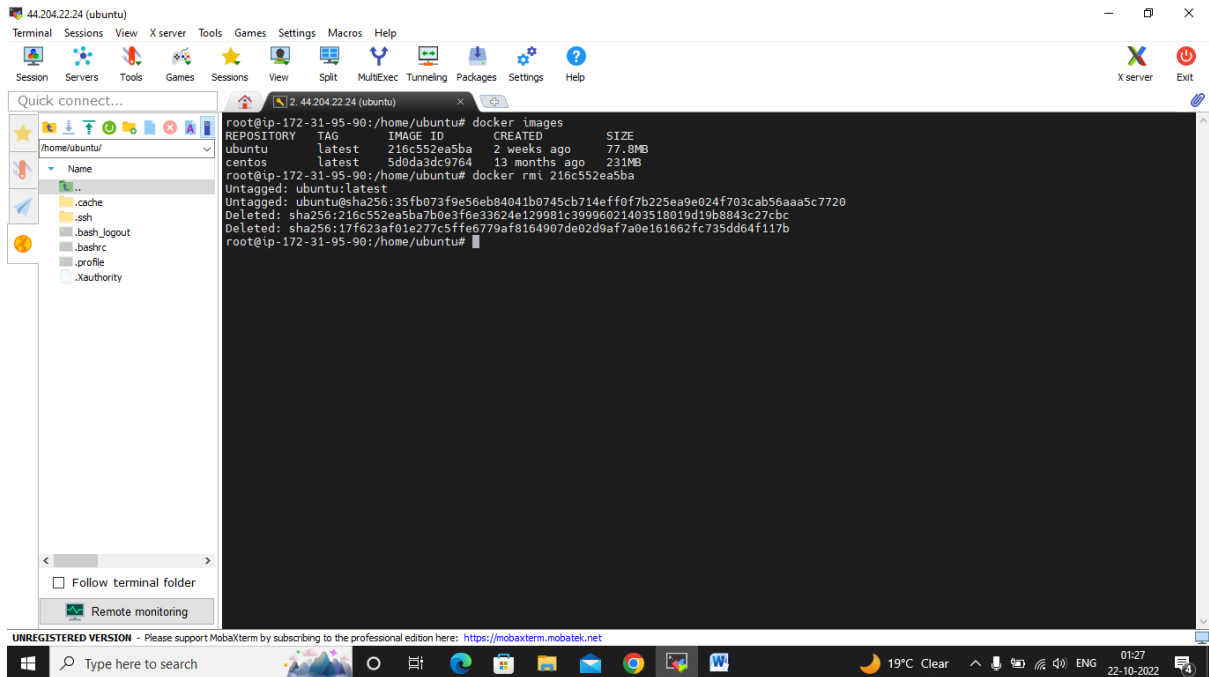
7) **Docker pull** : To download image from dockerhub to local machine



The screenshot shows the MobaXterm application window. The main terminal pane shows a root shell prompt at 'root@ip-172-31-95-90:/home/ubuntu#'. The command 'docker pull ubuntu' has been entered and executed, resulting in several lines of output: 'Using default tag: latest', 'latest: Pulling from library/ubuntu', 'Digest: sha256:35f6073f9e56eb84041b0745cb714eff0f7b225ea9e024f703cab56aaa5c7720', 'Status: Image is up to date for ubuntu:latest', and 'docker.io/library/ubuntu:latest'. The bottom status bar indicates 'UNREGISTERED VERSION' and provides a link to the professional edition.

```
root@ip-172-31-95-90:/home/ubuntu# docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
Digest: sha256:35f6073f9e56eb84041b0745cb714eff0f7b225ea9e024f703cab56aaa5c7720
Status: Image is up to date for ubuntu:latest
docker.io/library/ubuntu:latest
root@ip-172-31-95-90:/home/ubuntu#
```

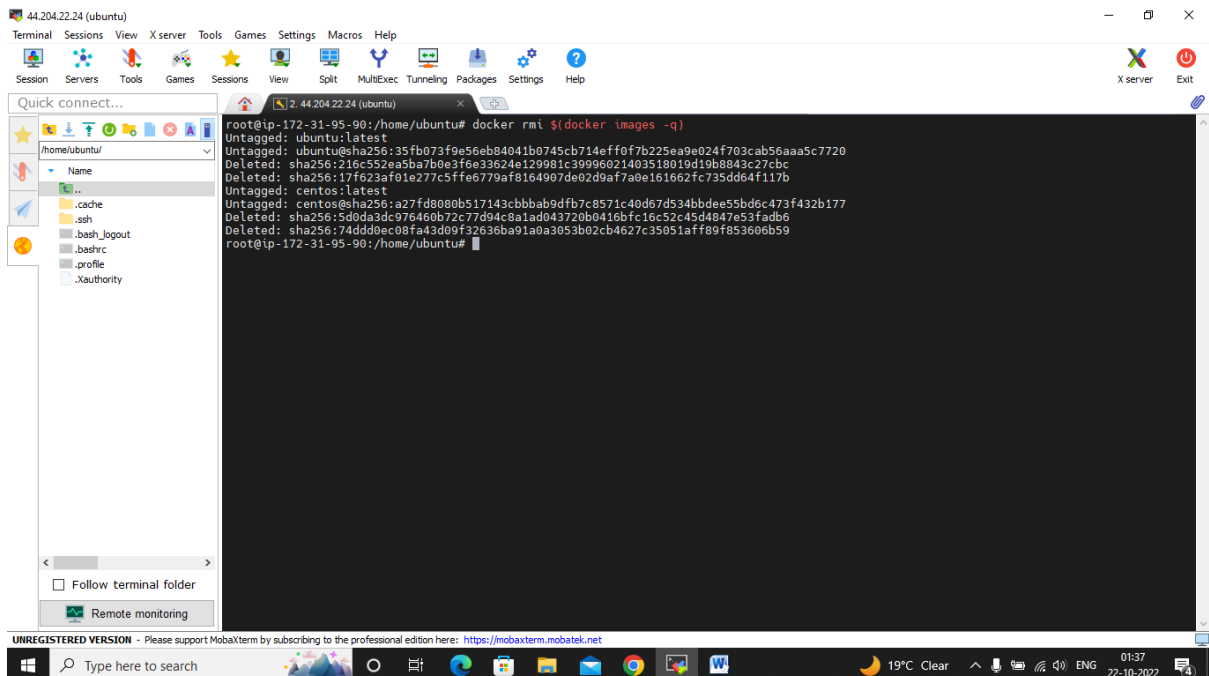
8) Docker rmi : To remove image



The screenshot shows a MobaXterm window with a terminal session on a remote host (44.204.22.24, ubuntu). The terminal displays the output of the `docker images` command, listing two images: `ubuntu:latest` (ID: 216c552ea5ba, 77.0MB) and `centos:latest` (ID: 5d0da3dc9764, 231MB). The user then runs `docker rmi 216c552ea5ba`, which removes the `ubuntu:latest` image. The terminal output shows the image being untagged and then deleted, with its SHA256 hashes listed. The MobaXterm interface includes a sidebar with file explorer, a top menu bar, and a bottom status bar.

```
root@ip-172-31-95-90:/home/ubuntu# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ubuntu        latest    216c552ea5ba   2 weeks ago    77.0MB
centos        latest    5d0da3dc9764   13 months ago  231MB
root@ip-172-31-95-90:/home/ubuntu# docker rmi 216c552ea5ba
Untagged: ubuntu:latest
Deleted: sha256:216c552ea5ba7b0e3f6e33624e129981c39996021403518019d19b8843c27cbc
Deleted: sha256:17f623af01e277c5ffe6779af8164907de02d9af7a0e161662fc735dd64f117b
root@ip-172-31-95-90:/home/ubuntu#
```

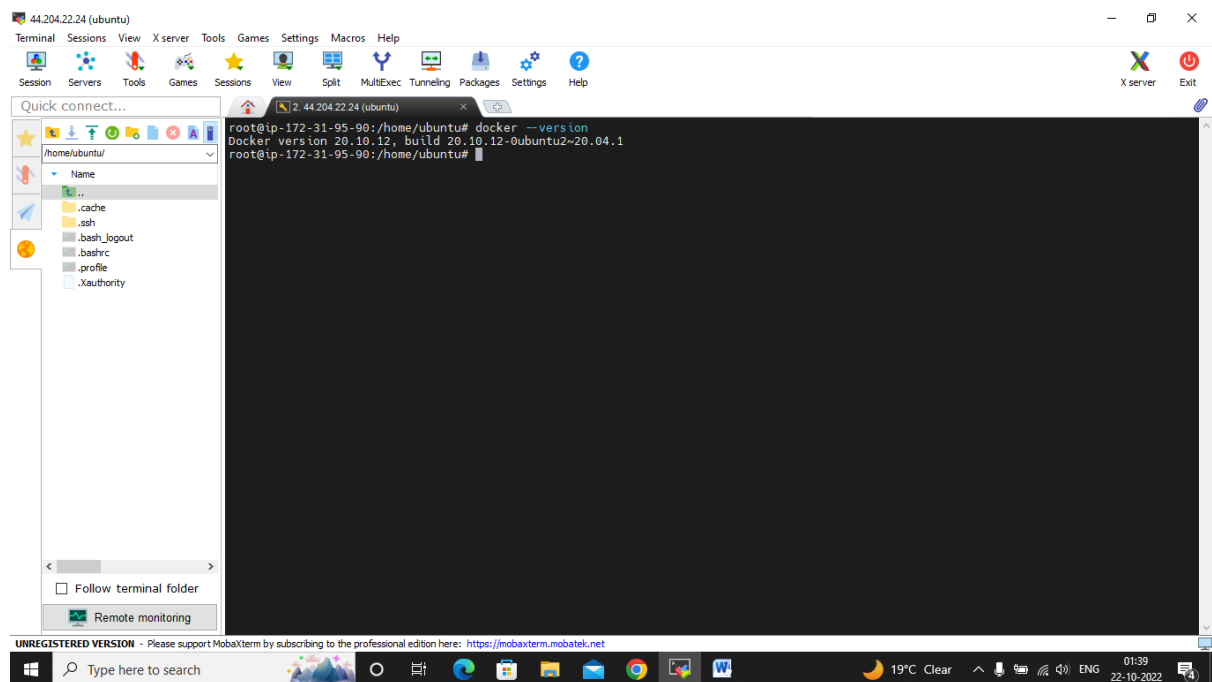
9) docker rmi \$(docker images -q) : To remove all images



The screenshot shows a MobaXterm window with a terminal session on a remote host (44.204.22.24, ubuntu). The terminal displays the output of the `docker images -q` command, listing the IDs of all images: `216c552ea5ba7b0e3f6e33624e129981c39996021403518019d19b8843c27cbc` and `5d0da3dc976460b72c77d94c8a1ad043720b0416bfc16c52c45d4847e53fadb6`. The user then runs `docker rmi $(docker images -q)`, which removes all images. The terminal output shows the images being untagged and then deleted, with their SHA256 hashes listed. The MobaXterm interface includes a sidebar with file explorer, a top menu bar, and a bottom status bar.

```
root@ip-172-31-95-90:/home/ubuntu# docker images -q
216c552ea5ba7b0e3f6e33624e129981c39996021403518019d19b8843c27cbc
5d0da3dc976460b72c77d94c8a1ad043720b0416bfc16c52c45d4847e53fadb6
root@ip-172-31-95-90:/home/ubuntu# docker rmi $(docker images -q)
Untagged: ubuntu:latest
Untagged: ubuntu:sha256:35fb073f9e56eb84041b0745cb714eff0f7b225ea9e024f703cab56aaa5c7720
Deleted: sha256:216c552ea5ba7b0e3f6e33624e129981c39996021403518019d19b8843c27cbc
Deleted: sha256:17f623af01e277c5ffe6779af8164907de02d9af7a0e161662fc735dd64f117b
Untagged: centos:latest
Untagged: centos:sha256:a27fd8080b517143cbbab9dfb7c8571c40d67d534bbdee55bd6c473f432b177
Deleted: sha256:5d0da3dc976460b72c77d94c8a1ad043720b0416bfc16c52c45d4847e53fadb6
Deleted: sha256:74ddd0ec08fa43d09f32636ba91a0a3053b02cb4627c35051aff89f853606b59
root@ip-172-31-95-90:/home/ubuntu#
```

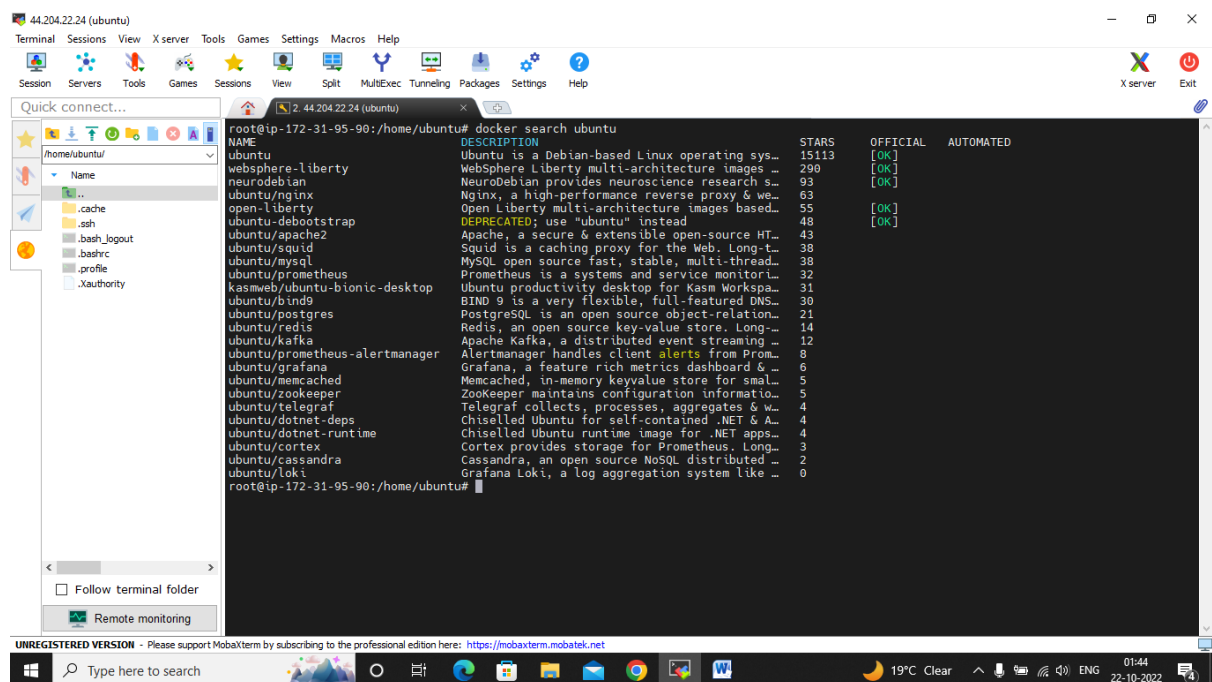
10) Docker --version : To check docker version



The screenshot shows a MobaXterm window with a terminal session on an Ubuntu system. The terminal displays the command `docker --version` and its output: `Docker version 20.10.12, build 20.10.12-0ubuntu2~20.04.1`. The MobaXterm interface includes a sidebar with a file explorer, a top menu bar, and a status bar at the bottom.

```
root@ip-172-31-95-90:/home/ubuntu# docker --version
Docker version 20.10.12, build 20.10.12-0ubuntu2~20.04.1
root@ip-172-31-95-90:/home/ubuntu#
```

11) Docker search : To find out images in docker hub



The screenshot shows a MobaXterm window with a terminal session on an Ubuntu system. The terminal displays the command `docker search ubuntu` and its output, which lists various Docker images related to Ubuntu. The output is formatted as a table with columns for NAME, DESCRIPTION, STARS, OFFICIAL, and AUTOMATED.

```
root@ip-172-31-95-90:/home/ubuntu# docker search ubuntu
NAME                DESCRIPTION                STARS     OFFICIAL   AUTOMATED
ubuntu              Ubuntu is a Debian-based Linux operating sys...  15113    [OK]      
websphere-liberty   WebSphere Liberty multi-architecture images ...  290      [OK]      
neurodebian         NeuroDebian provides neuroscience research s...  93       [OK]      
ubuntu/nginx        Nginx, a high-performance reverse proxy & we...  63       [OK]      
open-liberty        Open Liberty multi-architecture images based...  55       [OK]      
ubuntu-debootstrap  DEPRECATED; use "ubuntu" instead                48       [OK]      
ubuntu/apache2      Apache, a secure & extensible open-source HT...  43      
ubuntu/squid        Squid is a caching proxy for the Web. Long-t...  38      
ubuntu/mysql        MySQL open source fast, stable, multi-thread...  38      
ubuntu/prometheus   Prometheus is a systems and service monitori...  32      
kasmweb/ubuntu-bionic-desktop  Ubuntu productivity desktop for Kasm Workspa...  31      
ubuntu/bind9        BIND 9 is a very flexible, full-featured DNS...  30      
ubuntu/postgres     PostgreSQL is an open source object-relatio...  21      
ubuntu/redis        Redis, an open source key-value store. Long-...  14      
ubuntu/kafka        Apache Kafka, a distributed event streaming ...  12      
ubuntu/prometheus-alertmanager  Alertmanager handles client alerts from Prom...  8      
ubuntu/grafana       Grafana, a feature rich metrics dashboard & ...  6      
ubuntu/memcached    Memcached, in-memory keyvalue store for sma...  5      
ubuntu/zookeeper    ZooKeeper maintains configuration informatio...  5      
ubuntu/telegraf     Telegraf collects, processes, aggregates & w...  4      
ubuntu/dotnet-deps  chiselled Ubuntu runtime image for .NET app...  4      
ubuntu/dotnet-runtim  Chiselled Ubuntu runtime image for .NET app...  4      
ubuntu/cortex       Cortex provides storage for Prometheus. Long...  3      
ubuntu/cassandra    Cassandra, an open source NoSQL distributed ...  2      
ubuntu/loki         Grafana Loki, a log aggregation system like ...  0
root@ip-172-31-95-90:/home/ubuntu#
```

12) Docker login : For login into docker hub

