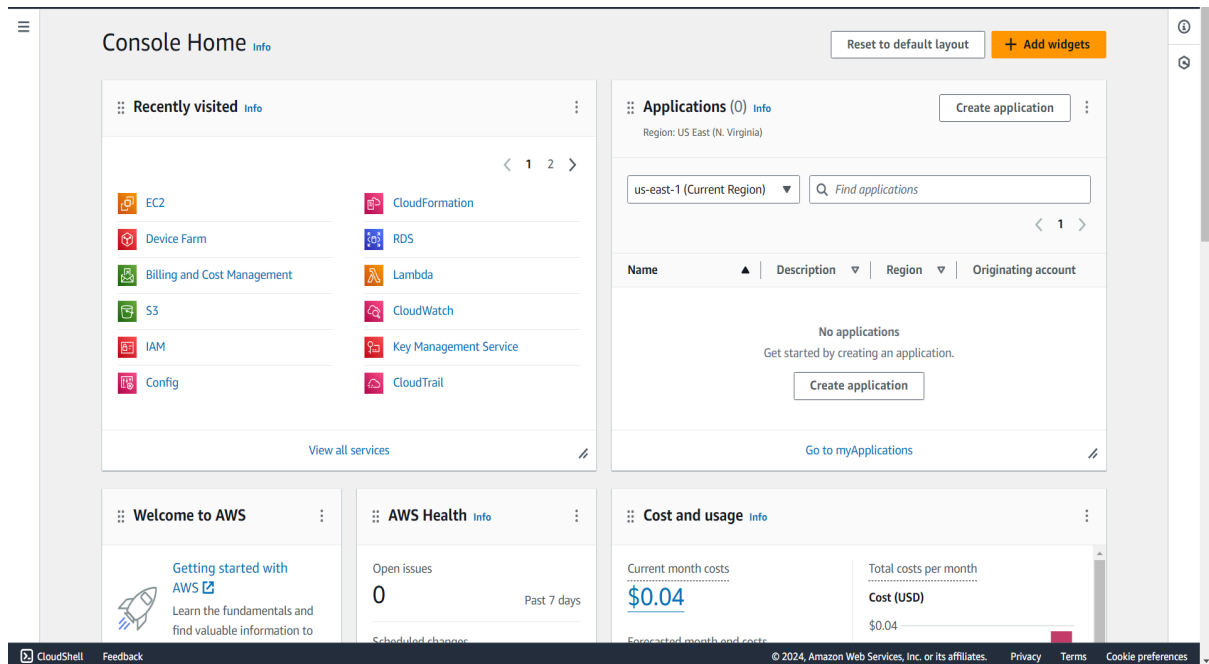
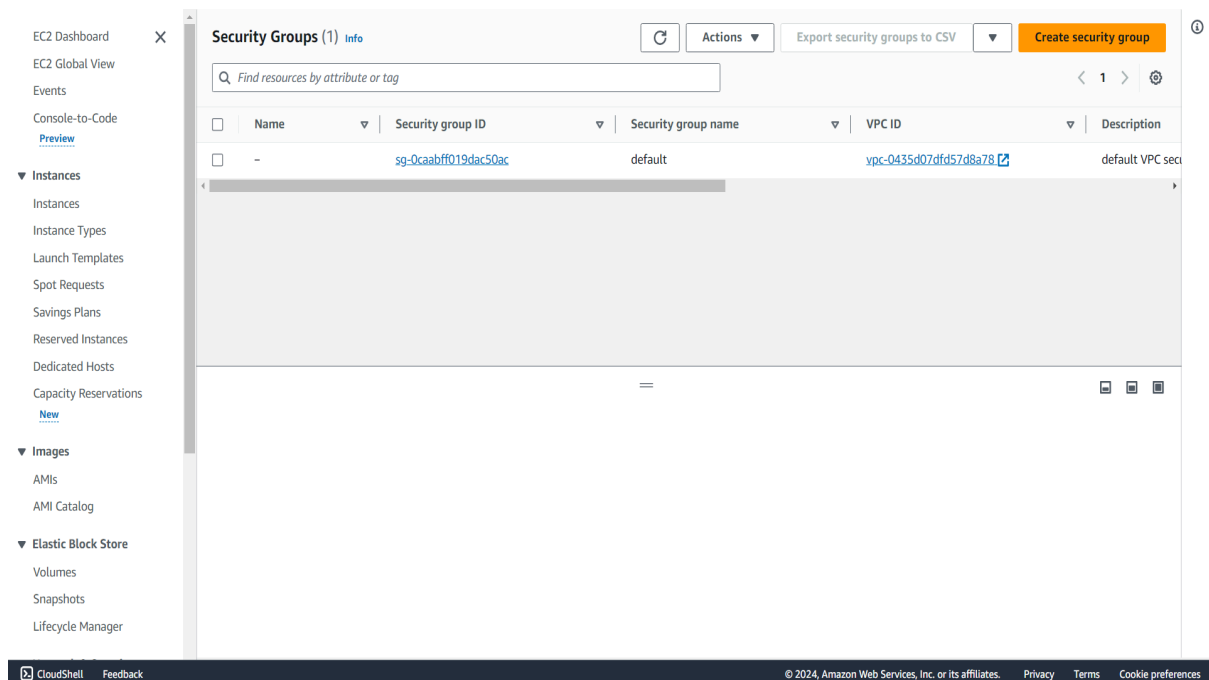


Installing docker on ec2 machine and performing life cycle operations

Step 1: Sign in to aws account



Step 2: Go to EC2 dashboard and go to security groups and click on 'Create Security group'



Step 3: Give a name and description to the security group

EC2 > Security Groups > Create security group

Create security group

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name

sg_tanmayvaij_ec2docker

Name cannot be edited after creation.

Description

security group for my ec2 docker instance

VPC

vpc-0dbe7bc3f6036f9b4

Inbound rules

This security group has no inbound rules.

Add rule

CloudShell

Feedback

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Step 4: Allow access to port 22, 80, 443 from anywhere in the inbound rules and set 'All Traffic' in outbound rules and click on create

Inbound rules

Type	Protocol	Port range	Source	Description - optional
SSH	TCP	22	Anyw... 0.0.0.0/0	
HTTP	TCP	80	Anyw... 0.0.0.0/0	
HTTPS	TCP	443	Anyw... 0.0.0.0/0	

Add rule

Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Outbound rules

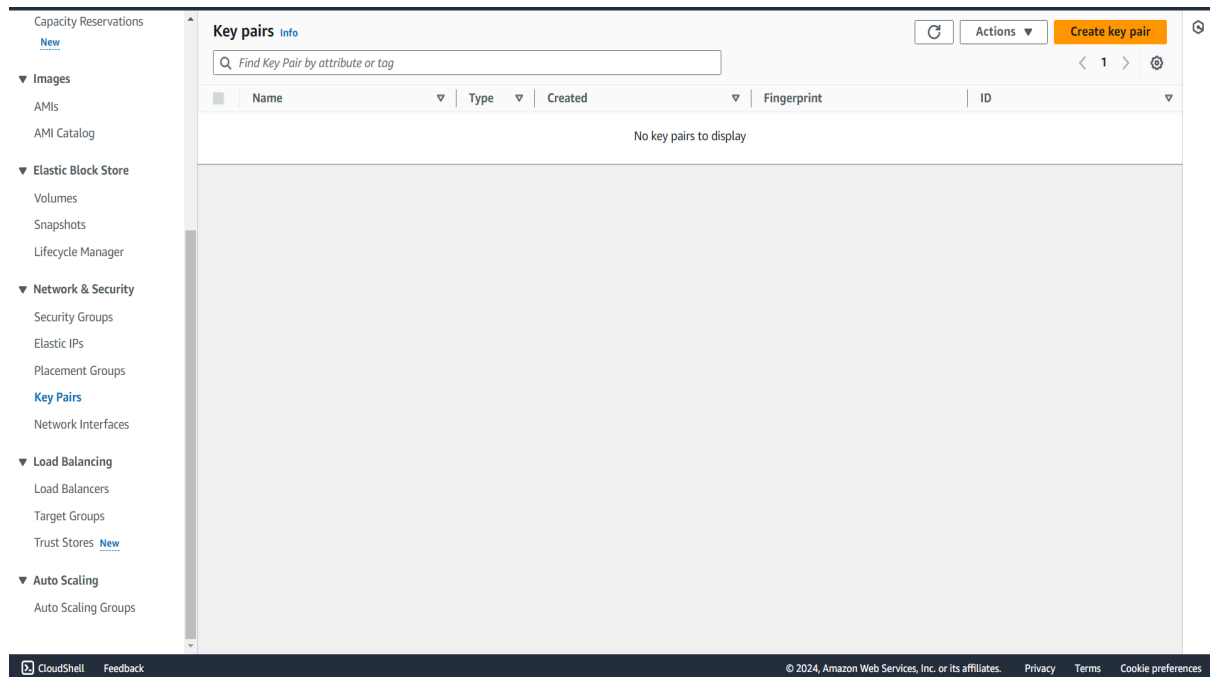
Type	Protocol	Port range	Destination	Description - optional
All traffic	All	All	Custom 0.0.0.0/0	

CloudShell

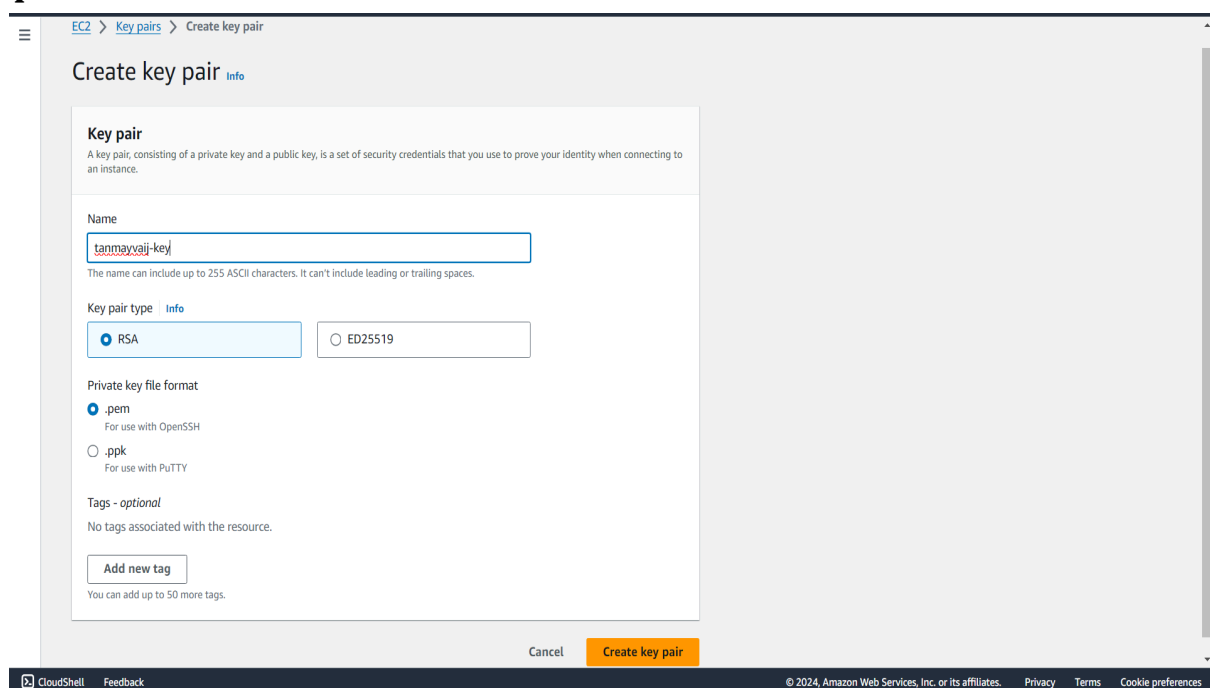
Feedback

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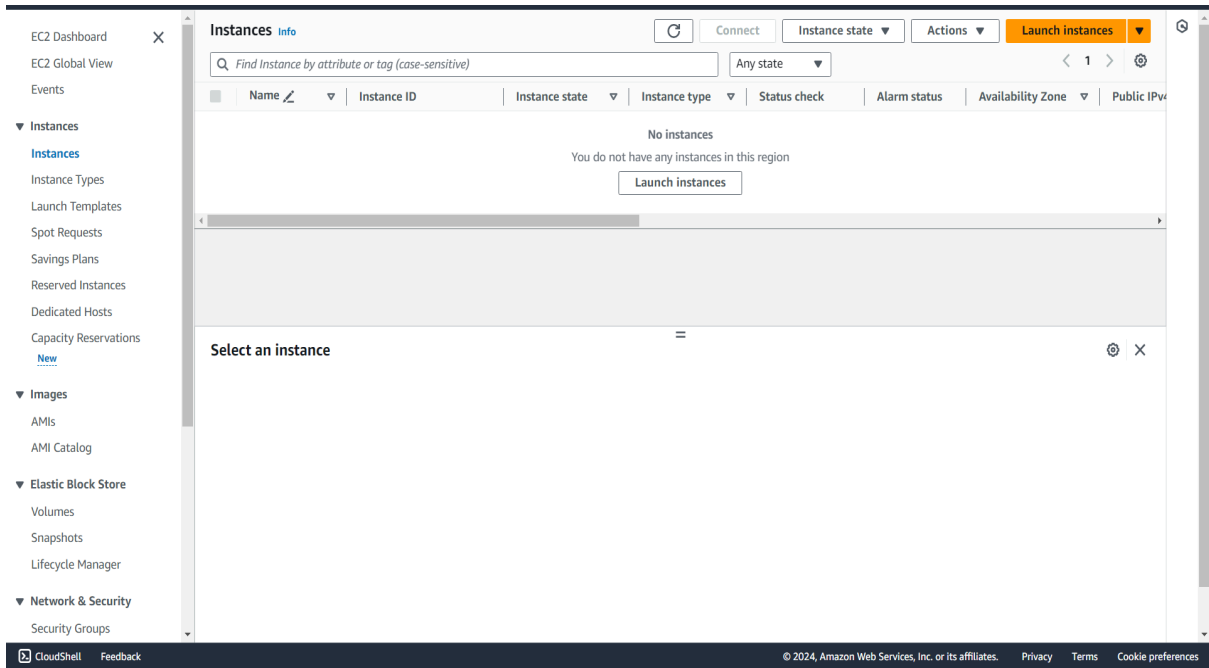
Step 5: Go the key pairs and click ‘Create key pair’



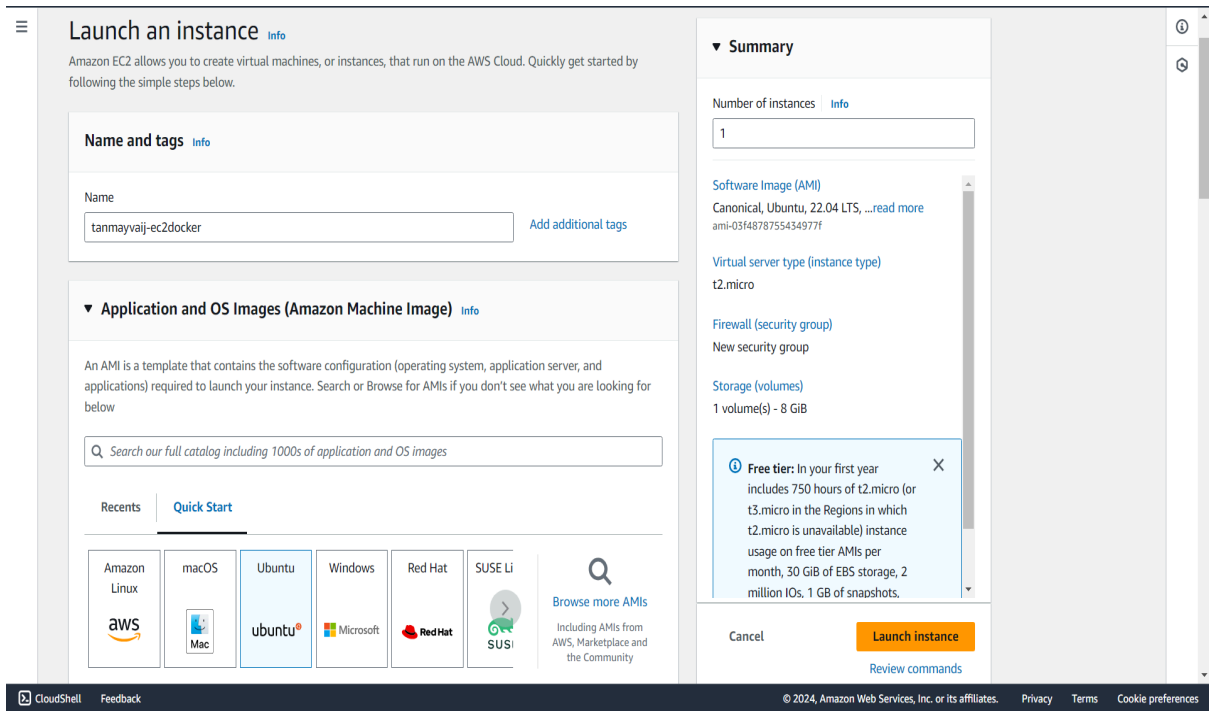
Step 6: Give a name to the key and set key pair type to RSA, file type to .pem and click on create



Step 7: Go to instances and click on ‘Launch instances’



Step 8: Give a name to the instance and select Ubuntu OS



Step 9: Select security group and key pair which was created in early steps, then click on 'Launch instance'

Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

tanmayvaj-key [Create new key pair](#)

Network settings Info [Edit](#)

Network Info

vpc-0dbe7bc3f6036f9b4

Subnet Info

No preference (Default subnet in any availability zone)

Auto-assign public IP Info

Enable

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☐ Create security group ☒ Select existing security group

Common security groups Info

Select security groups

sg_tanmayvaj_ec2docker sg-0eeae06dd24e4a332 [Compare security group rules](#)

VPC: vpc-0dbe7bc3f6036f9b4

Summary

Number of instances Info

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...read more
ami-03f4878755434977f

Virtual server type (instance type)

t2.micro

Firewall (security group)

sg_tanmayvaj_ec2docker

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots.

Cancel [Launch instance](#) [Review commands](#)

Step 10: Click on the running EC2 instance and click on connect

EC2 Dashboard [×](#)

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

[New](#)

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

EC2 > Instances > i-07bc279332ecfec94

Instance summary for i-07bc279332ecfec94 (tanmayvaj-ec2docker) Info [Refresh](#) [Connect](#) [Instance state](#) [Actions](#)

Updated less than a minute ago

Instance ID	Public IPv4 address	Private IPv4 addresses
i-07bc279332ecfec94 (tanmayvaj-ec2docker)	65.1.84.37 Open address	172.31.43.190
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-65-1-84-37.ap-south-1.compute.amazonaws.com Open address
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-172-31-43-190.ap-south-1.compute.internal	ip-172-31-43-190.ap-south-1.compute.internal	-
Answer private resource DNS name	Instance type	AWS Compute Optimizer finding
IPv4 (A)	t2.micro	Opt-in to AWS Compute Optimizer for recommendations.
Auto-assigned IP address	VPC ID	Learn more
65.1.84.37 [Public IP]	vpc-0dbe7bc3f6036f9b4	Auto Scaling Group name
IAM Role	Subnet ID	-
-	subnet-0e7d41dc412c388cd	
IMDSv2		
Required		

Details **Status and alarms** [New](#) **Monitoring** **Security** **Networking** **Storage** **Tags**

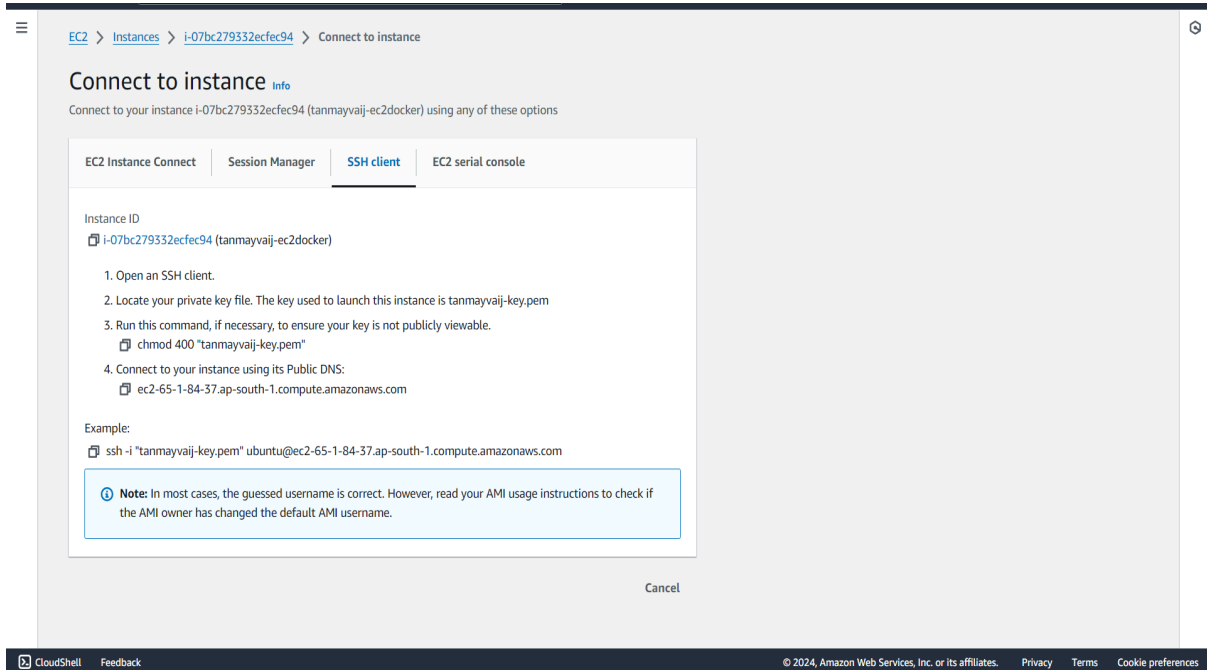
Instance details Info

Platform

AMIs

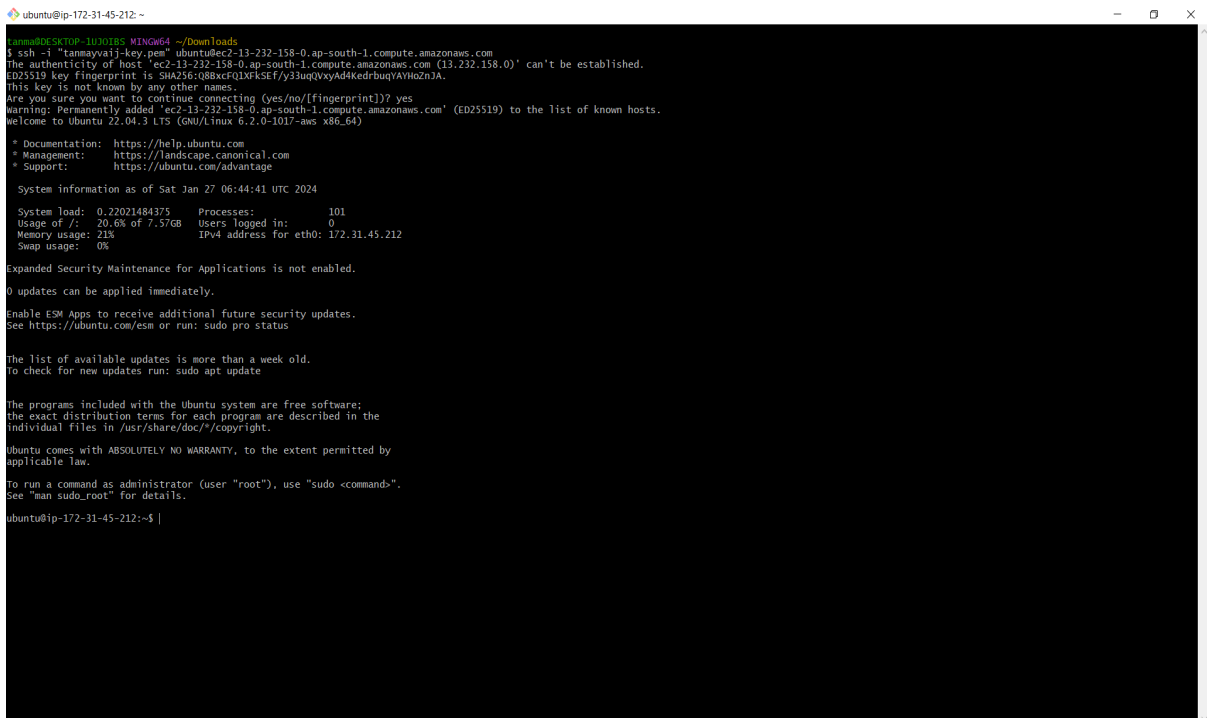
Monitoring

Step 11: Go to SSH Client and copy the example command and run it in the local terminal to connect to the instance



The screenshot shows the AWS Management Console interface for connecting to an EC2 instance. The breadcrumb navigation at the top reads: [EC2](#) > [Instances](#) > [i-07bc279332ecfec94](#) > [Connect to instance](#). The main heading is "Connect to instance" with an "Info" link. Below the heading, a message states: "Connect to your instance i-07bc279332ecfec94 (tanmayvaji-ec2docker) using any of these options". There are four tabs: "EC2 Instance Connect", "Session Manager", "SSH client" (which is selected), and "EC2 serial console". Under the "SSH client" tab, the "Instance ID" is listed as [i-07bc279332ecfec94](#) (tanmayvaji-ec2docker). A numbered list of steps is provided: 1. Open an SSH client. 2. Locate your private key file. The key used to launch this instance is tanmayvaji-key.pem. 3. Run this command, if necessary, to ensure your key is not publicly viewable. `chmod 400 tanmayvaji-key.pem`. 4. Connect to your instance using its Public DNS: [ec2-65-1-84-37.ap-south-1.compute.amazonaws.com](#). An "Example:" section shows the command: `ssh -i tanmayvaji-key.pem ubuntu@ec2-65-1-84-37.ap-south-1.compute.amazonaws.com`. A blue note box contains the text: "Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username." A "Cancel" button is located at the bottom right of the content area. The footer of the console shows "CloudShell", "Feedback", and copyright information for Amazon Web Services, Inc. or its affiliates, along with links for "Privacy", "Terms", and "Cookie preferences".

Step 12: Enter the command and instance will be connected



The screenshot shows a terminal window with the title bar "ubuntu@ip-172-31-45-212: ~". The user has executed the command `ssh -i tanmayvaji-key.pem ubuntu@ec2-13-232-158-0.ap-south-1.compute.amazonaws.com`. The terminal output shows the SSH client's process of establishing a connection, including the host key fingerprint (SHA256:Q88xcFQ1XFKSEF/y33uqVxyAd4KedrbuqVAYHoZnJA) and a warning to permanently add the host to the list of known hosts. After confirming, the user is greeted with the Ubuntu 22.04.3 LTS logo and system information. The terminal also displays system load, memory usage, and a list of available updates. The prompt at the bottom is `ubuntu@ip-172-31-45-212:~$`.

Step 13: Set up docker repository

Command:

```
$ sudo apt-get update -y sudo apt-get install apt-transport-https ca-certificates curl  
gnupg-agent software-properties-common
```

```
ubuntu@ip-172-31-45-212:~$ sudo apt-get update -y && sudo apt install apt-transport-https ca-certificates curl gnupg-agent software-properties-co  
mon  
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease  
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]  
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]  
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]  
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]  
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]  
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]  
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]  
Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]  
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]  
Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1320 kB]  
Get:12 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [267 kB]  
Get:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1334 kB]  
Get:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [218 kB]  
Get:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1035 kB]  
Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [232 kB]  
Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [22.1 kB]  
Get:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [42.1 kB]  
Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [10.1 kB]  
Get:20 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [472 B]  
Get:21 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [41.7 kB]  
Get:22 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [10.5 kB]  
Get:23 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]  
Get:24 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]  
Get:25 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [24.2 kB]  
Get:26 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]  
Get:27 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [644 B]  
Get:28 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]  
Get:29 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1102 kB]  
Get:30 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [207 kB]  
Get:31 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1306 kB]  
Get:32 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [213 kB]  
Get:33 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [834 kB]  
Get:34 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [159 kB]  
Get:35 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16.8 kB]  
Get:36 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [37.1 kB]  
Get:37 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7476 B]  
Get:38 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [260 B]  
Fetched 29.2 MB in 5s (5324 kB/s)  
Reading package lists... Done  
Reading package lists... Done
```

Step 14: Add docker's official gpg key and add docker repository

Command:

```
$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -  
$ sudo add-apt-repository "deb [arch=amd64] \  
https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"
```

```
ubuntu@ip-172-31-45-212:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -  
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).  
OK  
ubuntu@ip-172-31-45-212:~$ sudo add-apt-repository \  
"deb [arch=amd64] https://download.docker.com/linux/ubuntu \  
$(lsb_release -cs) \  
stable"  
Repository: 'deb [arch=amd64] https://download.docker.com/linux/ubuntu jammy stable'  
Description:  
Archive for codename: jammy components: stable  
More info: https://download.docker.com/linux/ubuntu  
Adding repository.  
Press [ENTER] to continue or Ctrl-C to cancel.  
Adding deb entry to /etc/apt/sources.list.d/archive_uri-https_download_docker_com_linux_ubuntu-jammy.list  
Adding disabled deb-src entry to /etc/apt/sources.list.d/archive_uri-https_download_docker_com_linux_ubuntu-jammy.list  
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease  
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease  
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease  
Get:4 https://download.docker.com/linux/ubuntu jammy InRelease [48.8 kB]  
Hit:5 http://security.ubuntu.com/ubuntu jammy-security InRelease  
Get:6 https://download.docker.com/linux/ubuntu jammy/stable amd64 Packages [25.1 kB]  
Fetched 73.9 kB in 1s (87.9 kB/s)  
Reading package lists... Done  
W: https://download.docker.com/linux/ubuntu/dists/jammy/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DE  
PRECATION section in apt-key(8) for details.  
ubuntu@ip-172-31-45-212:~$
```

Step 15: Change to root user and start hello-world container

Command:

```
$ sudo su
```

```
$ docker run hello-world
```

“Container becomes dead immediately after running the container”

```
root@ip-172-31-45-212: /home/ubuntu
ubuntu@ip-172-31-45-212:~$ sudo su
root@ip-172-31-45-212:/home/ubuntu# docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
c1ec31eb5944: Pull complete
Digest: sha256:4bd7811b6914a99dbbc560e6a20eab57ff6655aea4a80c50b0c5491968cbc2e6
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-172-31-45-212:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED              STATUS              PORTS          NAMES
cfb211222540   hello-world    "/hello"                11 seconds ago      Exited (0) 9 seconds ago           interesting_brattain
root@ip-172-31-45-212:/home/ubuntu#
```

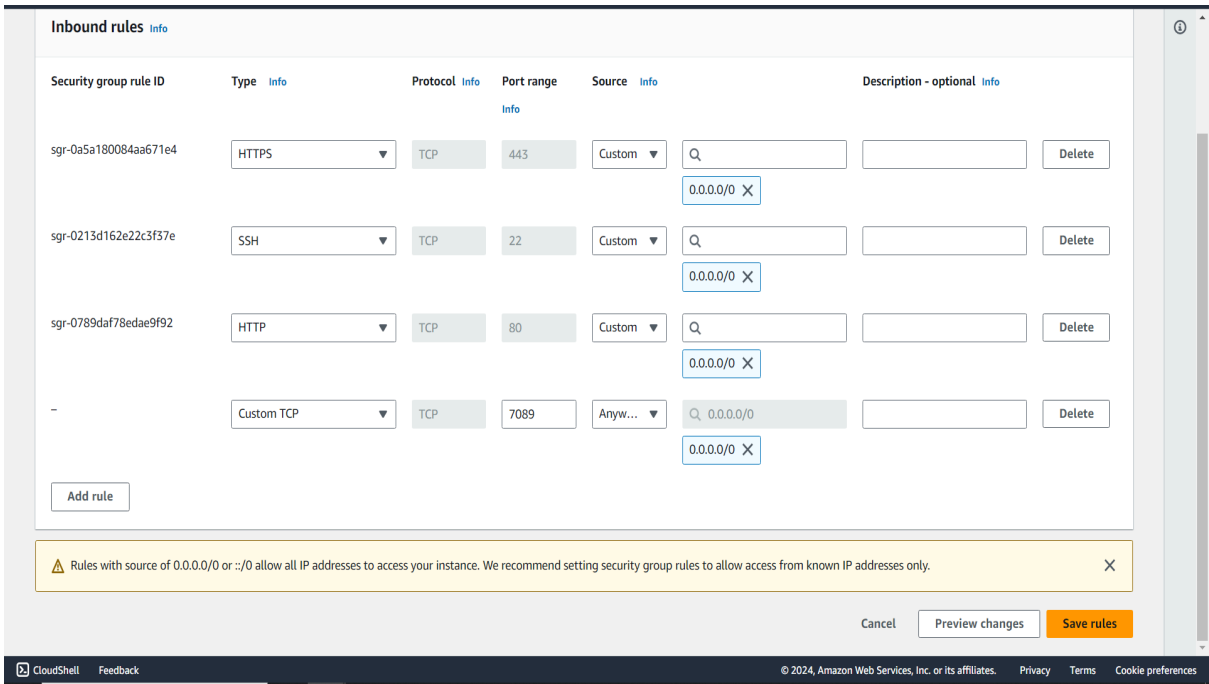
Step 16: Run nginx container

Command:

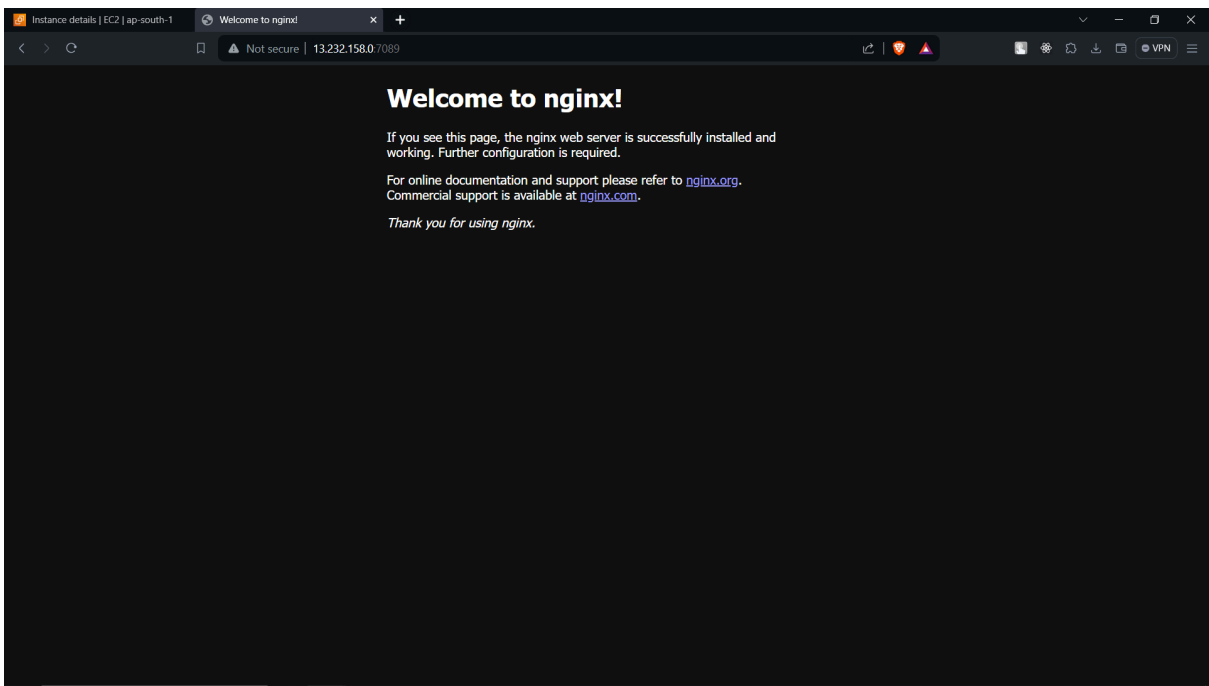
```
$ docker --name tanmaywebserver -p 7089:80 -d nginx
```

```
root@ip-172-31-45-212:/home/ubuntu# docker run --name tanmaywebserver -p 7089:80 -d nginx
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
2f44b7a888fa: Pull complete
8b7dd3ed1dc3: Pull complete
35497dd96569: Pull complete
36664b6ce66b: Pull complete
2d455521f76c: Pull complete
dc9c4fdb83d6: Pull complete
8056d2bcf3b6: Pull complete
Digest: sha256:4c0fdaa8b6341bfdeca5f18f7837462c80cff90527ee35ef185571e1c327beac
Status: Downloaded newer image for nginx:latest
0264361be9675c03e2ec76bb16a9bbbfa9ece48c6db4a481451375c4a61540c6
root@ip-172-31-45-212:/home/ubuntu# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
nginx          latest   a8758716bb6a   3 months ago   187MB
hello-world    latest   d2c94e258dcb   8 months ago   13.3kB
root@ip-172-31-45-212:/home/ubuntu#
```


Step 17: Add port 7089 to inbound rules in the security group



Step: 18: Copy public ip of instance and paste it in the browser url with port 7089



Step 19: Run redis container

Command:

\$ docker run -d redis

```
root@ip-172-31-45-212:/home/ubuntu# docker run -d redis
cac37a609ad0b5f52a00613a9e983aa290f8e06b5a38707fd4065e5ee148c720
root@ip-172-31-45-212:/home/ubuntu# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
redis          latest    bdf5f838c172  2 weeks ago   138MB
nginx          latest    a8758716bb6a  3 months ago  187MB
hello-world    latest    d2c94e258dcb  8 months ago  13.3kB
root@ip-172-31-45-212:/home/ubuntu#
```

Step 20: Stop and restart redis container

Stop redis container -> \$ docker stop cac37a609ad0

Restart redis container -> \$ docker start cac37a609ad0

```
root@ip-172-31-45-212:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS          NAMES
cac37a609ad0   redis     "docker-entrypoint.s..." 2 minutes ago Up 2 minutes  6379/tcp       infall
ib1e_stonebraker   redis     "docker-entrypoint.s..." 2 minutes ago Exited (1) 2 minutes ago          nostal
gic_hamilton       nginx     "/docker-entrypoint...." 10 minutes ago Up 10 minutes  0.0.0.0:7089->80/tcp, :::7089->80/tcp tanmay
webserver         hello-world "/hello"                  18 minutes ago Exited (0) 18 minutes ago          intere
sting_brattain
root@ip-172-31-45-212:/home/ubuntu# AC
root@ip-172-31-45-212:/home/ubuntu# docker stop cac37a609ad0
cac37a609ad0
root@ip-172-31-45-212:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS          NAMES
cac37a609ad0   redis     "docker-entrypoint.s..." 3 minutes ago Exited (0) 4 seconds ago          infall
ib1e_stonebraker   redis     "docker-entrypoint.s..." 4 minutes ago Exited (1) 3 minutes ago          nostal
gic_hamilton       nginx     "/docker-entrypoint...." 11 minutes ago Up 11 minutes  0.0.0.0:7089->80/tcp, :::7089->80/tcp tanmay
webserver         hello-world "/hello"                  19 minutes ago Exited (0) 19 minutes ago          intere
sting_brattain
root@ip-172-31-45-212:/home/ubuntu# docker start cac37a609ad0
cac37a609ad0
root@ip-172-31-45-212:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS          NAMES
cac37a609ad0   redis     "docker-entrypoint.s..." 4 minutes ago Up 4 seconds  6379/tcp       infall
ib1e_stonebraker   redis     "docker-entrypoint.s..." 4 minutes ago Exited (1) 4 minutes ago          nostal
gic_hamilton       nginx     "/docker-entrypoint...." 12 minutes ago Up 12 minutes  0.0.0.0:7089->80/tcp, :::7089->80/tcp tanmay
webserver         hello-world "/hello"                  19 minutes ago Exited (0) 19 minutes ago          intere
sting_brattain
root@ip-172-31-45-212:/home/ubuntu# |
```

Step 21: Pause and Unpause redis container

Pause redis container -> \$ docker pause cac37a609ad0

Unpause redis container -> \$ docker unpause cac37a609ad0

```
root@ip-172-31-45-212:/home/ubuntu# docker pause cac37a609ad0
cac37a609ad0
root@ip-172-31-45-212:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS              PORTS          NAMES
cac37a609ad0   redis         "docker-entrypoint.s..." 8 minutes ago Up 3 minutes (Paused) 6379/tcp      infall
1b1e_stonebraker   redis         "docker-entrypoint.s..." 8 minutes ago Exited (1) 8 minutes ago          nostalg
gic_hamilton      0264361be967 nginx         "/docker-entrypoint...." 15 minutes ago Up 15 minutes      0.0.0.0:7089->80/tcp, :::7089->80/tcp tanmay
webserver        cfb211222540 hello-world    "/hello"              23 minutes ago Exited (0) 23 minutes ago          intere
sting_brattain
root@ip-172-31-45-212:/home/ubuntu# docker unpause cac37a609ad0
cac37a609ad0
root@ip-172-31-45-212:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS              PORTS          NAMES
cac37a609ad0   redis         "docker-entrypoint.s..." 8 minutes ago Up 3 minutes      6379/tcp      infall
1b1e_stonebraker   redis         "docker-entrypoint.s..." 8 minutes ago Exited (1) 8 minutes ago          nostalg
gic_hamilton      0264361be967 nginx         "/docker-entrypoint...." 15 minutes ago Up 15 minutes      0.0.0.0:7089->80/tcp, :::7089->80/tcp tanmay
webserver        cfb211222540 hello-world    "/hello"              23 minutes ago Exited (0) 23 minutes ago          intere
sting_brattain
root@ip-172-31-45-212:/home/ubuntu# |
```

Step 22: Kill redis container

Kill redis container -> \$ docker kill cac37a609ad0

```
root@ip-172-31-45-212:/home/ubuntu# docker kill cac37a609ad0
cac37a609ad0
root@ip-172-31-45-212:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS              PORTS          NAMES
cac37a609ad0   redis         "docker-entrypoint.s..." 13 minutes ago Exited (137) 5 seconds ago          infal
1b1e_stonebraker   redis         "docker-entrypoint.s..." 13 minutes ago Exited (1) 13 minutes ago          nosta
lgic_hamilton      0264361be967 nginx         "/docker-entrypoint...." 20 minutes ago Up 20 minutes      0.0.0.0:7089->80/tcp, :::7089->80/tcp tanma
ywebserver        cfb211222540 hello-world    "/hello"              28 minutes ago Exited (0) 28 minutes ago          inter
esting_brattain
root@ip-172-31-45-212:/home/ubuntu# |
```

Step 23: Stop, restart and pause nginx container

Stop nginx container -> docker stop 0264361be967

Restart nginx container -> docker start 0264361be967

Pause nginx container -> docker pause 0264361be967

```
root@ip-172-31-45-212:/home/ubuntu# docker stop 0264361be967
0264361be967
root@ip-172-31-45-212:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS          NAMES
cac37a609ad0   redis         "docker-entrypoint.s..." 14 minutes ago Exited (137) About a minute ago
386ec2c765b5   redis         "docker-entrypoint.s..." 14 minutes ago Exited (1) 14 minutes ago
0264361be967   nginx        "/docker-entrypoint...." 21 minutes ago Exited (0) 10 seconds ago
cfb211222540   hello-world   "/hello"                 29 minutes ago Exited (0) 29 minutes ago
root@ip-172-31-45-212:/home/ubuntu# docker start 0264361be967
0264361be967
root@ip-172-31-45-212:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS          NAMES
cac37a609ad0   redis         "docker-entrypoint.s..." 14 minutes ago Exited (137) About a minute ago
infallible_stonebraker
386ec2c765b5   redis         "docker-entrypoint.s..." 14 minutes ago Exited (1) 14 minutes ago
nostalgic_hamilton
0264361be967   nginx        "/docker-entrypoint...." 22 minutes ago Up 3 seconds    0.0.0.0:7089->80/tcp, :::7089->80/tcp
tanmaywebserver
cfb211222540   hello-world   "/hello"                 29 minutes ago Exited (0) 29 minutes ago
interesting_brattain
root@ip-172-31-45-212:/home/ubuntu# docker pause 0264361be967
0264361be967
root@ip-172-31-45-212:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS          NAMES
cac37a609ad0   redis         "docker-entrypoint.s..." 14 minutes ago Exited (137) About a minute ago
infallible_stonebraker
386ec2c765b5   redis         "docker-entrypoint.s..." 14 minutes ago Exited (1) 14 minutes ago
nostalgic_hamilton
0264361be967   nginx        "/docker-entrypoint...." 22 minutes ago Up 19 seconds (Paused)    0.0.0.0:7089->80/tcp, :::7089->80/tcp
tanmaywebserver
cfb211222540   hello-world   "/hello"                 30 minutes ago Exited (0) 29 minutes ago
interesting_brattain
root@ip-172-31-45-212:/home/ubuntu#
```

Step 24: Unpause and kill nginx container

Unpause nginx container: docker unpause 0264361be967

Kill nginx container: docker kill 0264361be967

```
root@ip-172-31-45-212:/home/ubuntu# docker unpause 0264361be967
0264361be967
root@ip-172-31-45-212:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS          NAMES
cac37a609ad0   redis         "docker-entrypoint.s..." 19 minutes ago Exited (137) 6 minutes ago
infallible_stonebraker
386ec2c765b5   redis         "docker-entrypoint.s..." 19 minutes ago Exited (1) 19 minutes ago
nostalgic_hamilton
0264361be967   nginx        "/docker-entrypoint...." 26 minutes ago Up 4 minutes    0.0.0.0:7089->80/tcp, :::7089->80/tcp
tanmaywebserver
cfb211222540   hello-world   "/hello"                 34 minutes ago Exited (0) 34 minutes ago
interesting_brattain
root@ip-172-31-45-212:/home/ubuntu# docker kill 0264361be967
0264361be967
root@ip-172-31-45-212:/home/ubuntu# docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS          NAMES
cac37a609ad0   redis         "docker-entrypoint.s..." 19 minutes ago Exited (137) 6 minutes ago
infallible_stonebraker
386ec2c765b5   redis         "docker-entrypoint.s..." 19 minutes ago Exited (1) 19 minutes ago
nostalgic_hamilton
0264361be967   nginx        "/docker-entrypoint...." 27 minutes ago Exited (137) 10 seconds ago
tanmaywebserver
cfb211222540   hello-world   "/hello"                 35 minutes ago Exited (0) 34 minutes ago
interesting_brattain
root@ip-172-31-45-212:/home/ubuntu#
```