

Name: **Anay Abhijit Joshi**
M-ID: **M14391356 (joshi2an)**

EXTRA CREDIT (100% Done ✓)

Code is attached in a Zip Folder and is also available on GitHub:

<https://github.com/anay-a-joshi/Docker-K8s-Python-Automation>

All the required screenshots are attached below !

Commands to Run (Docker Container) -

docker pull anayjoshi/anayjoshi-python-container

or

docker load -i JOSHI2AN.tar (make sure to be in the directory with JOSHI2AN.tar)

docker run --rm anayjoshi-python-container

To access **shell** by running the docker container in an **interactive mode with a terminal**

docker pull anayjoshi/anayjoshi-python-container

or

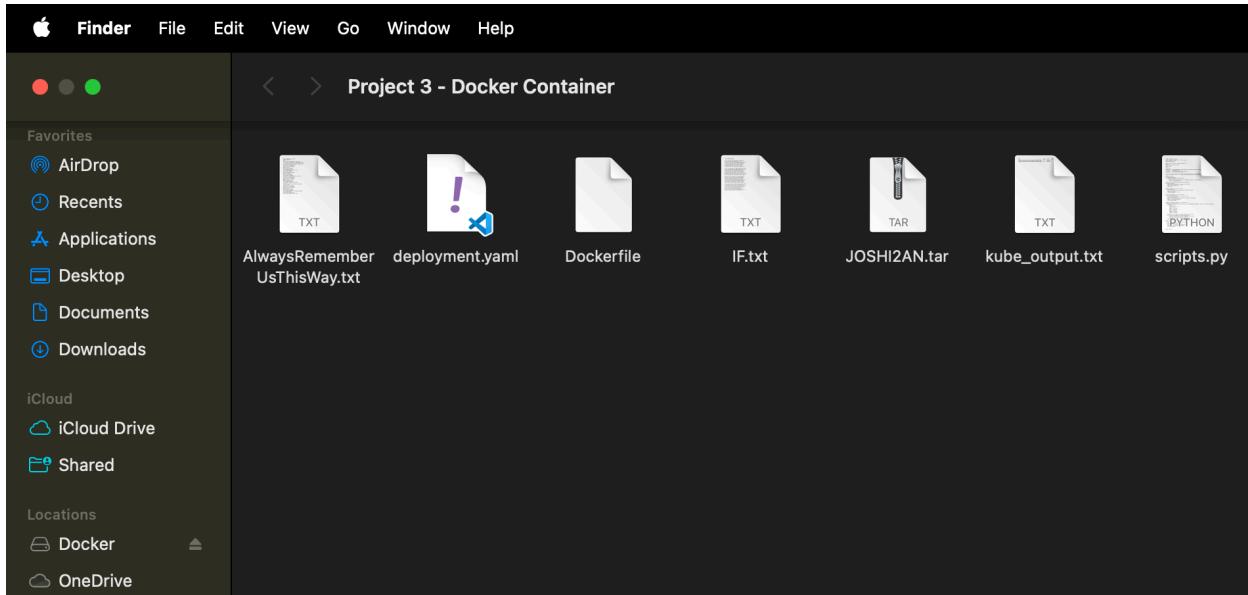
docker load -i JOSHI2AN.tar (make sure to be in the directory with JOSHI2AN.tar)

docker run -it anayjoshi-python-container sh

python scripts.py (creates “output” directory, if already not there)

cd output

cat result.txt



```

last login: Wed Oct  9 22:48:24 on ttys000
anayjoshi@Anays-MacBook-Pro ~ % docker login -u anayjoshi
Password:
Login Succeeded
anayjoshi@Anays-MacBook-Pro ~ % docker version
Client:
  Version: 27.2.0
  API version: 1.46
  Go version: go1.21.13
  Git commit: 3ab6c26
  Built: Tue Aug 27 14:14:45 2024
  OS/Arch: darwin/amd64
  Context: desktop-linux

Server: Docker Desktop 4.24.3 (176107)
Engine:
  Version: 27.2.0
  API version: 1.46 (minimum version 1.24)
  Go version: go1.21.13
  Git commit: 3ab6c26
  Built: Tue Aug 27 14:15:41 2024
  OS/Arch: linux/amd64
  Experimental: false
  containerd:
    Version: 1.7.26
    Commit: 5f0c0efff51518f944279e306522e895ce9dbff9f353
  runc:
    Version: 1.1.13
    Commit: v1.1.13-0-g58aa920
    docker-init:
      Version: 0.19.0
      GitCommit: dde4e9b
(anayjoshi@Anays-MacBook-Pro ~ % docker run --name anay-joshi-hello-world-container hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
778afcf91080: Pulling [digest]a07a89973e8ef1f19f0d654494d2c99732e8e520e5038a8348
Digest: https://registry.docker.io/v2/library/hello-world/manifests/a07a89973e8ef1f19f0d654494d2c99732e8e520e5038a8348
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.
   (rmd4v8)
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/
anayjoshi@Anays-MacBook-Pro ~ % docker images -a
REPOSITORY TAG IMAGE ID CREATED SIZE
hello-world latest d211f48f5fdd 17 months ago 21kB
anayjoshi@Anays-MacBook-Pro ~ % docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
d4509ec6ccad hello-world "tail -f /dev/null" 18 seconds ago Exited (0) 9 seconds ago anay-joshi-hello-world-container
anayjoshi@Anays-MacBook-Pro ~ %

```

```
Last login: Wed Oct 9 22:53:51 on ttys000
anayoshi@Anays-MacBook-Pro Project 3 - Docker Container % ls
AlwaysRememberUsThisWay.txt  If.txt
Dockerfile  scripts.py
anayoshi@Anays-MacBook-Pro Project 3 - Docker Container % sudo nano Dockerfile
Password:
[+] Building 3.6s (9/9) FINISHED
--> [internal] load build definition from Dockerfile
--> [internal] transfering dockerfile: 82B
--> [internal] load context: 0B
--> [internal] load dockerfile: 82B
--> [internal] load .dockerignore
--> [internal] load dockerfile: 0B
--> [internal] load manifest sha256:098405eecd28e8c8beda53b65e8e36ff5f891ac73d71b982ae8fcda5cd6382
--> [internal] load manifest sha256:06861c64a234085d624cd8cb8a819879519d23d09c5ccaa5c5b7a7476
--> [internal] load manifest sha256:0a4303f8e079aef73221198136817725682
--> [internal] load .WORKDIR /home/data
--> CACHED [2/3] COPY scripts.py If.txt AlwaysRememberUsThisWay.txt /home/data/
--> exporting to image
--> layers
--> exporting manifest sha256:098405eecd28e8c8beda53b65e8e36ff5f891ac73d71b982ae8fcda5cd6382
--> exporting config sha256:06861c64a234085d624cd8cb8a819879519d23d09c5ccaa5c5b7a7476
--> exporting layers sha256:0a4303f8e079aef73221198136817725682
--> exporting manifest list sha256:8a4303f8e079aef73221198136817725682
--> naming to docker.io/library/anayoshi-python-container@latest
--> unpacking to docker.io/library/anayoshi-python-container@latest
View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/69vn06qvvhv8v7jebb221514
What's next:
View a summary of image vulnerabilities and recommendations > docker scout quickview
anayoshi@Anays-MacBook-Pro Project 3 - Docker Container % docker images -a
REPOSITORY          TAG      IMAGE ID      CREATED        SIZE
anayoshi-python-container    latest  8a4303f8e079   33 minutes ago  7.97E
hello-world          latest  d211f485f2dd   17 months ago  23kB
anayoshi@Anays-MacBook-Pro Project 3 - Docker Container %
```

```
Last login: Wed Oct 9 22:53:51 on ttys000
anayoshi@Anays-MacBook-Pro Project 3 - Docker Container % ls
AlwaysRememberUsThisWay.txt  If.txt
Dockerfile  scripts.py
anayoshi@Anays-MacBook-Pro Project 3 - Docker Container % sudo nano Dockerfile
Password:
[+] Building 3.6s (9/9) FINISHED
--> [internal] load build definition from Dockerfile
--> [internal] transfering dockerfile: 52B
--> [internal] load metadata for docker.io/library/python:alpine
--> [internal] load .dockerignore
--> [internal] load context: 0B
--> [internal] transfering context: 2B
--> [internal] load build context
--> [internal] load manifest sha256:098405eecd28e8c8beda53b65e8e36ff5f891ac73d71b982ae8fcda5cd6382
--> [internal] load manifest sha256:06861c64a234085d624cd8cb8a819879519d23d09c5ccaa5c5b7a7476
--> [internal] load manifest sha256:0a4303f8e079aef73221198136817725682
--> [internal] load .WORKDIR /home/data
--> CACHED [2/3] COPY scripts.py If.txt AlwaysRememberUsThisWay.txt /home/data/
--> exporting to image
--> layers
--> exporting manifest sha256:098405eecd28e8c8beda53b65e8e36ff5f891ac73d71b982ae8fcda5cd6382
--> exporting config sha256:06861c64a234085d624cd8cb8a819879519d23d09c5ccaa5c5b7a7476
--> exporting layers sha256:0a4303f8e079aef73221198136817725682
--> exporting manifest list sha256:8a4303f8e079aef73221198136817725682
--> naming to docker.io/library/anayoshi-python-container@latest
--> unpacking to docker.io/library/anayoshi-python-container@latest
View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/69vn06qvvhv8v7jebb221514
What's next:
View a summary of image vulnerabilities and recommendations > docker scout quickview
anayoshi@Anays-MacBook-Pro Project 3 - Docker Container % docker images -a
REPOSITORY          TAG      IMAGE ID      CREATED        SIZE
anayoshi-python-container    latest  8a4303f8e079   33 minutes ago  7.97E
hello-world          latest  d211f485f2dd   17 months ago  23kB
anayoshi@Anays-MacBook-Pro Project 3 - Docker Container % docker run --rm anayoshi/python-container:v1.0.0
Name: 'Anay Abhijit Joshi'

Total Words Count in If.txt: 287
Total Words Count in AlwaysRememberUsThisWay.txt (before handling contractions): 223
Grand Total Words Count in both files (before handling contractions in 'AlwaysRememberUsThisWay.txt'): 510

Total Words Count in If.txt: 287
Total Words Count in AlwaysRememberUsThisWay.txt (after handling contractions): 242
Grand Total Words Count in both files (after handling contractions in 'AlwaysRememberUsThisWay.txt'): 529

Top 3 Most Frequent Words and their Respective Counts in If.txt ('not-considered words which require handling of contractions like you'll/you've' and 'cases with -and/-and-'): [('YOU', 18), ('AND', 16), ('IF', 14)]
Top 3 Most Frequent Words and their Respective Counts in AlwaysRememberUsThisWay.txt (after handling contractions): [('I', 15), ('THE', 13), ('NOT', 9)]
IP Address of the Machine running the Container: 172.17.0.2
anayoshi@Anays-MacBook-Pro Project 3 - Docker Container %
```

```
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % docker push anayjoshi/anayjoshi-python-container
Using default tag: latest
The push refers to a repository [docker.io/anayjoshi/anayjoshi-python-container]
a62da5a7e95b: Pushed
2a2454de25f1: Layer already exists
d008c93437d9: Layer already exists
7238e53437d9: Layer already exists
cf04cc63912e1: Layer already exists
3c87e3898883: Layer already exists
bc97e3898883: Layer already exists
latest: digest: sha256:8443b3f8e0704aef1a1681dia0bb035d2a08b668dfbe428ffd853166aa99e1e size: 856
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container %
```

```
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % docker push anayjoshi/anayjoshi-python-container
Using default tag: latest
The push refers to a repository [docker.io/anayjoshi/anayjoshi-python-container]
a62da5a7e95b: Pushed
2a2454de25f1: Layer already exists
d008c93437d9: Layer already exists
7238e53437d9: Layer already exists
cf04cc63912e1: Layer already exists
3c87e3898883: Layer already exists
bc97e3898883: Layer already exists
latest: digest: sha256:8443b3f8e0704aef1a1681dia0bb035d2a08b668dfbe428ffd853166aa99e1e size: 856
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % docker search anayjoshi
NAME                DESCRIPTION          STARS      OFFICIAL
anayjoshi/anayjoshi-python-container          0
```

The screenshot shows the Docker Desktop application window. The left sidebar has 'Images' selected. The main area displays a table of images with columns: Name, Tag, Status, Created, Size, and Actions. There are four images listed:

Name	Tag	Status	Created	Size	Actions
hello-world	latest	In use	1 year ago	21.02 KB	[Actions]
anayoshi/anayoshi-python-container	latest	Unused	48 minutes ago	71.89 MB	[Actions]
anayoshi/anayoshi-pythoncontainer	v1.0.0	Unused	48 minutes ago	71.89 MB	[Actions]
anayoshi/python-container	latest	Unused	48 minutes ago	71.89 MB	[Actions]

Below the table, it says 'Showing 4 items'. A 'Walkthroughs' section is present with two cards: 'Publish your image' (5 mins) and 'Containerize your application' (3 mins). The bottom status bar shows 'Engine running' and system information like RAM and Disk usage.

```
anayoshi@Anaya-MacBook-Pro Project 3 - Docker Container % docker push anayoshi/anayoshi-python-container
Using default tag: latest
The push refers to repository [docker.io/anayoshi/anayoshi-python-container]
a62dade7e098: Pushed
2a2d4de25f7: Layer already exists
20d03a11144: Layer already exists
7238e33427d9: Layer already exists
cf04cc49312e1: Layer already exists
8e803a1a113: Layer already exists
bc7df19dd83: Layer already exists
latest: digest: sha256:8443b3fe0e704aefaf1a681dia0bb035da08b664dfbe428ffdf0853166a99e0e size: 856
anayoshi@Anaya-MacBook-Pro Project 3 - Docker Container % docker search anayoshi
NAME                DESCRIPTION          OFFICIAL
anayoshi/anayoshi-python-container      9
anayoshi@Anaya-MacBook-Pro Project 3 - Docker Container % docker save -o JOSHI2AN.tar anayoshi/python-container
anayoshi@Anaya-MacBook-Pro Project 3 - Docker Container %
```

```
Last login: Wed Oct 9 23:28:38 on ttys000
anayjoshi@anays-MacBook-Pro ~ % docker images -a
REPOSITORY TAG IMAGE ID CREATED SIZE
hello-world latest d211e4add 3 months ago 21kB
anayjoshi@anays-MacBook-Pro ~ % docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
d4659ac65cad hello-world "hello" 37 minutes ago Exited (0) 37 minutes ago anayjoshi-hello-world-container
Using default tag: latest
latest: Pulling from anayjoshi/anayjoshi-python-container
anayjoshi@anays-MacBook-Pro ~ % docker pull anayjoshi/anayjoshi-python-container:latest
Status: Downloaded newer image for anayjoshi/anayjoshi-python-container:latest
docker.io/anayjoshi/anayjoshi-python-container:latest

What's next:
  Show a summary of Image vulnerabilities and recommendations → docker scout quickview anayjoshi/anayjoshi-python-container
anayjoshi@anays-MacBook-Pro ~ % docker run --rm anayjoshi/anayjoshi-python-container
Name: 'Anay Abhijit Joshi'

Total Words Count in IF.txt: 287
Total Words Count in AlwaysRememberUsThisWay.txt (before handling contractions): 223
Grand Total Words Count in both files (before handling contractions in 'AlwaysRememberUsThisWay.txt'): 510

Total Words Count in IF.txt: 287
Total Words Count in AlwaysRememberUsThisWay.txt (after handling contractions): 242
Grand Total Words Count in both files (before handling contractions in 'AlwaysRememberUsThisWay.txt'): 529

Top 3 Most Frequent Words and their Respective Counts in IF.txt ('not-considered words which require handling of contractions like you'll/you've' and 'cases with -and/-and-'): [('YOU', 18), ('AND', 16), ('IF', 14)]
Top 3 Most Frequent Words and their Respective Counts in AlwaysRememberUsThisWay.txt (after handling contractions): [('I', 16), ('THE', 13), ('NOT', 9)]

IP Address of the Machine running the Container: 172.17.0.2
anayjoshi@anays-MacBook-Pro ~ %
```

```
anayjoshi@anays-MacBook-Pro ~ % docker run -it anayjoshi/anayjoshi-python-container sh
/home/data # pwd
/home/data
/home/data # python scripts.py
Name: 'Anay Abhijit Joshi'

Total Words Count in IF.txt: 287
Total Words Count in AlwaysRememberUsThisWay.txt (before handling contractions): 223
Grand Total Words Count in both files (before handling contractions in 'AlwaysRememberUsThisWay.txt'): 510

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Top 3 Most Frequent Words and their Respective Counts in AlwaysRememberUsThisWay.txt (after handling contractions): [('I', 16), ('THE', 13), ('NOT', 9)]

IP Address of the Machine running the Container: 172.17.0.2
/home/data # ls
AlwaysRememberUsThisWay.txt  IF.txt          output      scripts.py
/home/data/output # pwd
/home/data/output
/home/data/output # ls
result.txt
/home/data/output # cat result.txt
Name: 'Anay Abhijit Joshi'

Total Words Count in IF.txt: 287
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Top 3 Most Frequent Words and their Respective Counts in AlwaysRememberUsThisWay.txt (after handling contractions): [('I', 16), ('THE', 13), ('NOT', 9)]

IP Address of the Machine running the Container: 172.17.0.2
/home/data/output # exit
anayjoshi@anays-MacBook-Pro ~ %
```

```
Last login: Wed Oct 9 23:38:28 on ttys000
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % docker images -
REPOSITORY TAG IMAGE ID CREATED SIZE
hello-world latest d211f485f2dd 11 months ago 20kB
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
d45b9ac6cad hello-world "/hello" 46 minutes ago Exited (0) 46 minutes ago anay-joshi-hello-world-container
Loaded image: anayjoshi-python-container:latest
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % docker load -i JOSH12AN.tar
REPOSITORY TAG IMAGE ID CREATED SIZE
anayjoshi-python-container latest 6145b849e070 About an hour ago 71.9MB
hello-world latest d211f485f2dd 17 months ago 21kB
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % docker run --rm anayjoshi-python-container
Name: 'Anay Abhijit Joshi'

Total Words Count in IF.txt: 287
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Top 3 Most Frequent Words and their Respective Counts in AlwaysRememberUsThisWay.txt (after handling contractions): [('I', 15), ('THE', 13), ('NOT', 9)]

IP Address of the Machine running the Container: 172.17.0.2

anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % docker run -it anayjoshi-python-container sh
/home/data # pwd
/home/data
/home/data # python scripts.py
Name: Anay Abhijit Joshi

Total Words Count in IF.txt: 287
Total Words Count in AlwaysRememberUsThisWay.txt (before handling contractions): 223
Grand Total Words Count in both files (before handling contractions in 'AlwaysRememberUsThisWay.txt'): 510

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IP Address of the Machine running the Container: 172.17.0.2

/home/data # ls
AlwaysRememberUsThisWay.txt IF.txt output scripts.py
/home/data # cd output
/home/data/output # pwd
/home/data/output
/home/data/output # ls
result
/home/data/output # cat result.txt
Name: 'Anay Abhijit Joshi

Total Words Count in IF.txt: 287
Total Words Count in AlwaysRememberUsThisWay.txt (before handling contractions): 223
Grand Total Words Count in both files (before handling contractions in 'AlwaysRememberUsThisWay.txt'): 510

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Top 3 Most Frequent Words and their Respective Counts in AlwaysRememberUsThisWay.txt (after handling contractions): [('I', 15), ('THE', 13), ('NOT', 9)]

IP Address of the Machine running the Container: 172.17.0.2
/home/data/output # exit
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container %
```

EXTRA CREDIT (100% Done ✓)

The screenshot shows the Docker Desktop settings interface. The left sidebar has a tree view with 'Kubernetes' selected. Under 'Kubernetes', 'v1.30.2' is displayed. A 'Enable Kubernetes' toggle is turned on, with the sub-instruction 'Start a Kubernetes single-node cluster when starting Docker Desktop.' Below it is a checkbox for 'Show system containers (advanced)'. A red-bordered button labeled 'Reset Kubernetes Cluster' is visible. The status bar at the bottom shows 'Engine running' and 'Kubernetes running'.

Kubernetes
v1.30.2
Enable Kubernetes
Start a Kubernetes single-node cluster when starting Docker Desktop.
Show system containers (advanced)
Reset Kubernetes Cluster
All stacks and Kubernetes resources will be deleted.

General
Resources
Docker Engine
Builders
Kubernetes
Software updates
Extensions
Features in development
Notifications
Advanced

Cancel **Apply & restart**

Engine running Kubernetes running RAM 3.49 GB CPU 2.09% Disk 56.22 GB avail. of 62.67 GB BETA Terminal v4.34.3

The screenshot shows the Docker Desktop Images tab. The left sidebar has a tree view with 'Images' selected. Under 'Images', the 'Local' tab is active, showing 11 images. A search bar is at the top. The table below lists the images with columns for Name, Tag, Status, Created, Size, and Actions. The status bar at the bottom shows 'Engine running' and 'Kubernetes running'.

Name	Tag	Status	Created	Size	Actions
hello-world	latest	In use	1 year ago	21.02 KB	⋮ ⚏
registry.k8s.io/pause	3.9	Unused	2 years ago	785.83 KB	⋮ ⚏
registry.k8s.io/kube-apiserver	v1.30.2	Unused	4 months ago	145.7 MB	⋮ ⚏
registry.k8s.io/kube-controller-manager	v1.30.2	Unused	4 months ago	138.83 MB	⋮ ⚏
registry.k8s.io/kube-scheduler	v1.30.2	Unused	4 months ago	81.44 MB	⋮ ⚏
registry.k8s.io/kube-proxy	v1.30.2	Unused	4 months ago	117.37 MB	⋮ ⚏
registry.k8s.io/etcd	3.5.12-0	Unused	8 months ago	209.23 MB	⋮ ⚏
registry.k8s.io/coredns/coredns	v1.11.1	Unused	1 year ago	77.89 MB	⋮ ⚏
docker/desktop-kubernetes	kubernetes-v1.30.2-cni-v1.4.0-critools-v1.29.0-cri-dockerd-v0.3.11	Unused	3 months ago	595.81 MB	⋮ ⚏
docker/desktop-storage-provisioner	v2.0	Unused	3 years ago	55.98 MB	⋮ ⚏
docker/desktop-vpnkit-controller	dc331cb22850be0cdd97c84a9cfecaf44a1ab6e	Unused	1 year ago	44.7 MB	⋮ ⚏

Showing 11 items

Engine running Kubernetes running RAM 3.52 GB CPU 1.26% Disk 56.22 GB avail. of 62.67 GB BETA Terminal v4.34.3

```
Last login: Thu Oct 10 22:10:08 on ttys001
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % ls
AlwaysRememberUsThisWay.txt      IF.txt          deployment.yaml
Dockerfile                      JOSHIZAN.tar    scripts.py
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % docker images -a
REPOSITORY           TAG      IMAGE ID      CREATED       SIZE
docker/desktop-kubernetes   kubernetes-v1.38.2-cni-v1.4.0-critools-v1.29.0-cri-dockerd-v0.3.11-1-debian  c86a2c396272  3 months ago  596MB
registry.k8s.io/kube-apiserver   v1.38.2      3486b4a350d4  4 months ago  144MB
registry.k8s.io/kube-scheduler   v1.39.2      3486b4a350d4  4 months ago  131.4MB
registry.k8s.io/kube-controller-manager  v1.39.2      f4c12b01fc58  4 months ago  139MB
registry.k8s.io/kube-proxy        v1.39.2      8a44c6e094af  4 months ago  117MB
registry.k8s.io/stcid            3.5.12-0     44a8e24dcdbba  8 months ago  209MB
registry.k8s.io/coredns         v1.11.1      1eeb4c7316ba  14 months ago  77.9MB
docker/desktop-vpnkit-controller  dc331cb22850be0dd97c84a9cfecaf44a1afbe6e  7ecf567ea070  17 months ago  44.7MB
hello-world                  latest      d211f485f2dd  17 months ago  21kB
registry.k8s.io/pause           3.9          7031c1b28338  24 months ago  786kB
docker/desktop-storage-provisioner  v2.1        115d77effee02  3 years ago  56MB
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS               NAMES
d65b9ac6c5cad      hello-world        "hello"            24 hours ago       Exited (0) 24 hours ago   anay-joshi-hello-world-container
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % kubectl apply -f deployment.yaml
deployment.apps/anayjoshi-dockercontainer-deployment configured
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % kubectl get pods
NAME                           READY   STATUS    RESTARTS   AGE
anayjoshi-dockercontainer-deployment-5fcfd5994f-6h9ks  1/1    Running   0          6s
anayjoshi-dockercontainer-deployment-5fcfd5994f-gq7xq  1/1    Running   0          6s
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % kubectl get deployments
NAME                           READY   STATUS    TO-DATE   AVAILABLE   AGE
anayjoshi-dockercontainer-deployment  2/2    2        2        19m
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % kubectl get pods
NAME                           READY   STATUS    RESTARTS   AGE
anayjoshi-dockercontainer-deployment-5fcfd5994f-6h9ks  1/1    Running   0          62s
anayjoshi-dockercontainer-deployment-5fcfd5994f-gq7xq  1/1    Running   0          62s
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % kubectl scale deployment anayjoshi-dockercontainer-deployment --replicas=3
deployment.apps/anayjoshi-dockercontainer-deployment scaled
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % kubectl get deployments
NAME                           READY   STATUS    TO-DATE   AVAILABLE   AGE
anayjoshi-dockercontainer-deployment  3/3    3        3        29m
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % kubectl get pods
NAME                           READY   STATUS    RESTARTS   AGE
anayjoshi-dockercontainer-deployment-5fcfd5994f-6h9ks  1/1    Running   0          2m46s
anayjoshi-dockercontainer-deployment-5fcfd5994f-gq7xq  1/1    Running   0          2m46s
anayjoshi-dockercontainer-deployment-5fcfd5994f-n6mdn  1/1    Running   0          8s
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % kubectl get pods > kube.output.txt
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container % cat kube.output.txt
NAME                           READY   STATUS    RESTARTS   AGE
anayjoshi-dockercontainer-deployment-5fcfd5994f-6h9ks  1/1    Running   0          3m17s
anayjoshi-dockercontainer-deployment-5fcfd5994f-gq7xn  1/1    Running   0          3m17s
anayjoshi-dockercontainer-deployment-5fcfd5994f-n6mdn  1/1    Running   0          39s
anayjoshi@Anays-MacBook-Pro Project 3 - Docker Container %
```

Docker Hub (Pushed Container)

Link: <https://hub.docker.com/r/anayjoshi/anayjoshi-python-container>

This screenshot shows the Docker Hub search interface. The search bar at the top contains the query 'anayjoshi'. On the left, there are various filtering options under 'Products' (Images, Extensions, Plugins), 'Trusted Content' (Docker Official Image, Verified Publisher, Sponsored OSS), and 'Categories' (API Management, Content Management System, Data Science, Databases & Storage, Languages & Frameworks, Integration & Delivery, Internet of Things, Machine Learning & AI, Message Queues, Monitoring & Observability, Networking, Operating Systems, Security). The main search results area displays one item: 'anayjoshi/anayjoshi-python-container' by 'anayjoshi' (Updated an hour ago). The result card includes a small icon, the repository name, the owner, the update time, and a star rating of 0.

This screenshot shows the detailed view of the Docker Hub repository 'anayjoshi/anayjoshi-python-container'. The top navigation bar shows the repository path 'Explore / anayjoshi/anayjoshi-python-container'. The main card displays the repository name, owner 'anayjoshi' (updated about 1 hour ago), and a star rating of 0. It also shows a large 'IMAGE' button. Below this, there are two tabs: 'Overview' (selected) and 'Tags'. The 'Overview' tab contains a placeholder message 'No overview available' and a note that the repository doesn't have an overview. The 'Tags' tab is currently empty. To the right, there is a 'Docker Pull Command' section with the command 'docker pull anayjoshi/anayjoshi-python-container' and a 'Copy' button. A download icon indicates 2 pulls.