

## Lab: Managing Docker Images

```
root@myVM: ~  
login as: anusha954  
anusha954@20.70.141.13's password:  
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1012-azure x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/pro  
  
System information as of Wed Aug 14 07:37:41 UTC 2024  
  
System load:  0.0          Processes:            124  
Usage of /:   7.7% of 28.02GB Users logged in:      0  
Memory usage: 6%          IPv4 address for eth0: 10.0.0.4  
Swap usage:   0%  
  
* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s  
  just raised the bar for easy, resilient and secure K8s cluster deployment.  
  
https://ubuntu.com/engage/secure-kubernetes-at-the-edge  
  
Expanded Security Maintenance for Applications is not enabled.  
  
4 updates can be applied immediately.  
To see these additional updates run: apt list --upgradable  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
Last login: Wed Aug 14 02:22:00 2024 from 210.18.153.3  
anusha954@myVM:~$ ^[[200~docker image ls  
docker: command not found  
anusha954@myVM:~$ docker image ls  
permission denied while trying to connect to the Docker daemon socket at unix://  
/var/run/docker.sock: Head "http://%2Fvar%2Frun%2Fdocker.sock/_ping": dial unix  
/var/run/docker.sock: connect: permission denied  
anusha954@myVM:~$ sudo su -  
root@myVM:~# docker image ls  
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
```

```

REPOSITORY TAG IMAGE ID CREATED SIZE
root@myVM:~# docker search alpine
NAME DESCRIPTION
STARS OFFICIAL
alpine A minimal Docker image b
ased on Alpine Linux... 10962 [OK]
envoyproxy/envoy-alpine
61
alpinelinux/docker-cli Simple and lightweight A
lpine Linux image wi... 11
envoyproxy/envoy-alpine-dev
1
wodby/apache Alpine-based Apache HTTP
server container im... 4
dockage/tor-privoxy Docker Tor proxy (http a
nd shell) built on A... 46
dockage/alpine Alpine image that forms
the base for Dockage... 1
alpinelinux/gitlab-runner-helper Helper image container g
itlab-runner-helper ... 7
treehouses/alpine
2
jitesoft/php PHP on alpine linux
0
balenalib/artik5-alpine-node This image is part of th
e balena.io base ima... 0
envoyproxy/envoy-alpine-debug-dev Images for master builds
. 1
balenalib/artik530-alpine-node This image is part of th
e balena.io base ima... 0
wodby/edge-alpine edge-alpine
1
balenalib/artik10-alpine-python This image is part of th
e balena.io base ima... 0
bellsoft/liberica-openjre-alpine Liberica is a 100% open-
source Java implemen... 22
balenalib/artik530-alpine-python This image is part of th
e balena.io base ima... 0
alpinelinux/docker-alpine

```

```
root@myVM: ~
alpinelinux/docker-alpine
0
wodby/alpine Alpine Linux container i
mage 0
balenalib/armv7hf-alpine This image is part of th
e balena.io base ima... 5
balenalib/jetson-tx1-alpine-node This image is part of th
e balena.io base ima... 0
balenalib/intel-edison-alpine-python This image is part of th
e balena.io base ima... 1
balenalib/up-board-alpine-node This image is part of th
e balena.io base ima... 0
balenalib/apalis-imx6q-alpine-node This image is part of th
e balena.io base ima... 0
balenalib/beaglebone-pocket-alpine-node This image is part of th
e balena.io base ima... 0
root@myVM:~# docker search alpine --filter=stars=100
NAME DESCRIPTION STARS
OFFICIAL
alpine A minimal Docker image based on Alpine Linux... 10962
[OK]
root@myVM:~# docker image pull alpine
Using default tag: latest
latest: Pulling from library/alpine
c6a83fedfae6: Pull complete
Digest: sha256:0a4eaa0eecf5f8c050e5bba433f58c052be7587ee8af3e8b3910ef9ab5f9f5
Status: Downloaded newer image for alpine:latest
docker.io/library/alpine:latest
root@myVM:~# docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
alpine latest 324bc02ae123 3 weeks ago 7.79MB
root@myVM:~# docker image pull docker.io/alpine/git
Using default tag: latest
latest: Pulling from alpine/git
c6a83fedfae6: Already exists
0d3503a807a8: Pull complete
99a279494ca7: Pull complete
Digest: sha256:5295f86c0f5e79cb9e638cab8a9683265bccd17a1b5864908c6
```

root@myVM: ~

ab2eb9f29e6cb

Status: Downloaded newer image for alpine/git:latest

docker.io/alpine/git:latest

root@myVM:~# docker image pull

quay.io/fluentd\_elasticsearch/fluentd:v2.5.2

"docker image pull" requires exactly 1 argument.

See 'docker image pull --help'.

Usage: docker image pull [OPTIONS] NAME[:TAG|@DIGEST]

Download an image from a registry

-bash: quay.io/fluentd\_elasticsearch/fluentd:v2.5.2: No such file  
or directory

root@myVM:~# docker image pull registry.k8s.io/etcd:3.5.6-0

3.5.6-0: Pulling from etcd

8fdb1fc20e24: Pull complete

436b7dc2bc75: Pull complete

05135444fe12: Pull complete

e462d783cd7f: Pull complete

ecff8ef6851d: Pull complete

Digest: sha256:dd75ec974b0a2a6f6bb47001ba09207976e625db898d1b16735

528c009cb171c

Status: Downloaded newer image for registry.k8s.io/etcd:3.5.6-0

registry.k8s.io/etcd:3.5.6-0

root@myVM:~# docker image ls

REPOSITORY	TAG	IMAGE ID	CREATED	SI
alpine/git	latest	7990366621eb	3 days ago	89
alpine	latest	324bc02ae123	3 weeks ago	7.
registry.k8s.io/etcd	3.5.6-0	fce326961ae2	20 months ago	29

root@myVM:~# docker image inspect alpine

```
[
  {
    "Id": "sha256:324bc02ae1231fd9255658c128086395d3fa0aedd5a41ab6b034fd649d1a9260",
    "RepoTags": [
```

NIFTY  
+0.19%



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```
root@myVM: ~  
1ab6b034fd649d1a9260",  
  "RepoTags": [  
    "alpine:latest"  
  ],  
  "RepoDigests": [  
    "alpine@sha256:0a4eaa0eecf5f8c050e5bba433f58c052be7587  
ee8af3e8b3910ef9ab5f9f5"  
  ],  
  "Parent": "",  
  "Comment": "",  
  "Created": "2024-07-22T22:26:43.778747613Z",  
  "DockerVersion": "23.0.11",  
  "Author": "",  
  "Config": {  
    "Hostname": "",  
    "Domainname": "",  
    "User": "",  
    "AttachStdin": false,  
    "AttachStdout": false,  
    "AttachStderr": false,  
    "Tty": false,  
    "OpenStdin": false,  
    "StdinOnce": false,  
    "Env": [  
      "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/us  
r/bin:/sbin:/bin"  
    ],  
    "Cmd": [  
      "/bin/sh"  
    ],  
    "Image": "sha256:3e25db883ea289c8b0d3006e7a6a03c56be09  
c50f03f6b228ba2fe74fd8194d2",  
    "Volumes": null,  
    "WorkingDir": "",  
    "Entrypoint": null,  
    "OnBuild": null,  
    "Labels": null  
  },  
  "Architecture": "amd64",
```



root@myVM: ~

```
"Size": 7792915,
"GraphDriver": {
  "Data": {
    "MergedDir": "/var/lib/docker/overlay2/ff93eaa1741b41cd9fad91f68d2648f2e6590cfb2ebbb6e4f5a92e26a4ef2b6a/merged",
    "UpperDir": "/var/lib/docker/overlay2/ff93eaa1741b41cd9fad91f68d2648f2e6590cfb2ebbb6e4f5a92e26a4ef2b6a/diff",
    "WorkDir": "/var/lib/docker/overlay2/ff93eaa1741b41cd9fad91f68d2648f2e6590cfb2ebbb6e4f5a92e26a4ef2b6a/work"
  },
  "Name": "overlay2"
},
"RootFS": {
  "Type": "layers",
  "Layers": [
    "sha256:78561cef0761903dd2f7d09856150a6d4fb48967a8f113f3e33d79effbf59a07"
  ]
},
"Metadata": {
  "LastTagTime": "0001-01-01T00:00:00Z"
}
}
```

```
root@myVM:~# docker image rm `docker image ls -a -q`
Untagged: alpine/git:latest
Untagged: alpine/git@sha256:5295f86c0f5e79cb9e638cab8a9683265bccd17alb5864908c6ab2eb9f29e6cb
Deleted: sha256:7990366621eb703f894c9c5d2b16e5b65c93ba361ffe6c077d5069f5ba9eff26
Deleted: sha256:6b7d7af1ea95c5ec3b9440e8c4ed99ea8b0c687090aebcb2b8f30bf59cd0c0f6
Deleted: sha256:7f861536fb9c8011a91c731c8c7b935c3e14662e4ce74819d5372ced12c0df96
Untagged: alpine:latest
Untagged: alpine@sha256:0a4eaa0eecf5f8c050e5bba433f58c052be7587ee8af3e8b3910ef9ab5f5be9f5
Deleted: sha256:324bc02ae1231fd9255658c128086395d3fa0aedd5a41ab6b034fd649d1a9260
```

33°C  
Mostly cloudy



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 root@myVM: ~

```
"LastTagTime": "0001-01-01T00:00:00Z"
```

```

}
}
]
root@myVM:~# docker image rm `docker image ls -a -q`
Untagged: alpine/git:latest
Untagged: alpine/git@sha256:5295f86c0f5e79cb9e638cab8a9683265bccd17a1b5864908c6ab2eb9f29e6cb
Deleted: sha256:7990366621eb703f894c9c5d2b16e5b65c93ba361ffe6c077d5069f5ba9efff26
Deleted: sha256:6b7d7aflea95c5ec3b9440e8c4ed99ea8b0c687090aebcb2b8f30bf59cd0c0f6
Deleted: sha256:7f861536fb9c8011a91c731c8c7b935c3e14662e4ce74819d5372ced12c0df96
Untagged: alpine:latest
Untagged: alpine@sha256:0a4eaa0eecf5f8c050e5bba433f58c052be7587ee8af3e8b3910ef9ab5f9be9f5
Deleted: sha256:324bc02ae1231fd9255658c128086395d3fa0aedd5a41ab6b034fd649d4a9260
Deleted: sha256:78561cef0761903dd2f7d09856150a6d4fb48967a8f113f3e33d79effbf59a07
Untagged: registry.k8s.io/etcd:3.5.6-0
Untagged: registry.k8s.io/etcd@sha256:dd75ec974b0a2a6f6bb47001ba09207976e625db898d1b16735528c009cb171c
Deleted: sha256:fce326961ae2d51a5f726883fd59d2a8c2ccc3e45d3bb859882db58e422e59e7
Deleted: sha256:dd51ec71200a33ec8802733c327a6bafaf118e8f2d95621b94598d45613364f47
Deleted: sha256:73e540e294ec705526e6dc1258f1a0f3c6bcb0eb6a9930c4e7884d90608a975
Deleted: sha256:b80de5608edd46a9560702695bfcfb2232106f54520fb4da3c19400714e029a2
Deleted: sha256:053c48a665f6c39418166d71d7dfaaa51d80020437b8656488e296e4f3a84144
Deleted: sha256:9fce6bd02a21068901a96271d3160c2ce9da9c83c152eeb22312f65226da108c
root@myVM:~# docker image ls
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
root@myVM:~#

```



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