



Docker Command Cheat Sheet



1. `docker --version`

Description: Displays the installed Docker version.

Example:

```
docker --version
```

Output:

```
Docker version 20.10.7, build f0df350
```

2. `docker info`

Description: Displays system-wide information about Docker.

Example:

```
docker info
```

Output:

```
yaml
Client:
  Context:    default
  Debug Mode: false

Server:
  Containers: 3
   Running: 2
   Paused: 0
   Stopped: 1
  Images: 5
  Server Version: 20.10.7
  ...
```



Docker Command Cheat Sheet



3. `docker pull <image_name>`

Description: Downloads a Docker image from a registry.

Example:

```
docker pull nginx
```

Output:

```
vbnet
Using default tag: latest
latest: Pulling from library/nginx
...
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
```

4. `docker images`

Description: Lists all Docker images on the local machine.

Example:

```
docker images
```

Output:

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
nginx	latest	ae2feff98a0c	2 weeks ago	133MB

5. `docker run <options> <image_name>`

Description: Runs a new container from an image.

Example:

Docker Command Cheat Sheet

```
docker run -d --name mynginx -p 80:80 nginx
```

Output:

```
c3b58f18402b2e284b25d13e9d6a0b7145ad7ecb70f2a3ec7c83835b1a6dfe64
```

6. `docker ps`

Description: Lists all running containers.

Example:

```
docker ps
```

Output:

CONTAINER ID	IMAGE	COMMAND	CREATED
STATUS	PORTS	NAMES	
c3b58f18402b	nginx	"/docker-entrypoint..."	2 minutes ago
2 minutes	0.0.0.0:80->80/tcp	mynginx	Up

7. `docker ps -a`

Description: Lists all containers, including stopped ones.

Example:

```
docker ps -a
```

Output:

CONTAINER ID	IMAGE	COMMAND	CREATED
STATUS	PORTS	NAMES	
c3b58f18402b	nginx	"/docker-entrypoint..."	3 minutes ago
			Up



Docker Command Cheat Sheet



```
3 minutes      80/tcp      mynginx
5f69a8df798b   nginx        "/docker-entrypoint..." 5 minutes ago
Exited (0) 3 minutes ago      reverent_roentgen
```

8. docker stop <container_name_or_id>

Description: Stops a running container.

Example:

```
docker stop mynginx
```

Output:

```
mynginx
```

9. docker start <container_name_or_id>

Description: Starts a stopped container.

Example:

```
docker start mynginx
```

Output:

```
mynginx
```

10. docker restart <container_name_or_id>

Description: Restarts a running or stopped container.

Example:

```
docker restart mynginx
```



Docker Command Cheat Sheet



Output:

```
mynginx
```

11. `docker rm <container_name_or_id>`

Description: Removes a stopped container.

Example:

```
docker rm mynginx
```

Output:

```
mynginx
```

12. `docker rmi <image_name>`

Description: Removes an image from the local machine.

Example:

```
docker rmi nginx
```

Output:

```
Untagged: nginx:latest  
Deleted: sha256:ae2feff98a0c5b1cdef5e093df9af95e4ec8c7261a60db
```

13. `docker exec <options> <container_name_or_id> <command>`

Description: Runs a command inside a running container.

Example:



Docker Command Cheat Sheet



```
docker exec -it mynginx /bin/
```

Output:

```
root@c3b58f18402b:/#
```

14. docker logs <container_name_or_id>

Description: Fetches the logs of a container.

Example:

```
docker logs mynginx
```

Output:

```
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will  
attempt to perform configuration  
...
```

15. docker build <options> <path>

Description: Builds an image from a Dockerfile.

Example:

```
docker build -t myapp .
```

Output:

```
Sending build context to Docker daemon 2.048kB  
Step 1/4 : FROM nginx
```



```
...  
Successfully tagged myapp:latest
```

16. `docker-compose up <options>`

Description: Starts services defined in a `docker-compose.yml` file.

Example:

```
docker-compose up -d
```

Output:

```
Creating network "myapp_default" with the default driver  
Creating myapp_web_1 ... done  
Creating myapp_db_1 ... done
```

17. `docker-compose down`

Description: Stops and removes containers, networks, images, and volumes created by `docker-compose up`.

Example:

```
docker-compose down
```

Output:

```
Stopping myapp_web_1 ... done  
Stopping myapp_db_1 ... done  
Removing myapp_web_1 ... done  
Removing myapp_db_1 ... done  
Removing network myapp_default
```

18. `docker volume ls`



Docker Command Cheat Sheet



Description: Lists all Docker volumes.

Example:

```
docker volume ls
```

Output:

```
DRIVER      VOLUME NAME
local       myvolume
```

19. docker volume create <volume_name>

Description: Creates a new Docker volume.

Example:

```
docker volume create myvolume
```

Output:

```
myvolume
```

20. docker volume rm <volume_name>

Description: Removes a Docker volume.

Example:

```
docker volume rm myvolume
```

Output:

```
myvolume
```



21. `docker network ls`

Description: Lists all Docker networks.

Example:

```
docker network ls
```

Output:

NETWORK ID	NAME	DRIVER	SCOPE
0e5676dc0dfd	bridge	bridge	local
c3a8f7e7e98d	host	host	local
d1b2a1ddf87e	none	null	local

22. `docker network create <network_name>`

Description: Creates a new Docker network.

Example:

```
docker network create mynetwork
```

Output:

```
c3b58f18402b
```

23. `docker network rm <network_name>`

Description: Removes a Docker network.

Example:

```
docker network rm mynetwork
```



Docker Command Cheat Sheet



Output:

```
mynetwork
```

24. docker stats <container_name_or_id>

Description: Displays real-time statistics of a container.

Example:

```
docker stats mynginx
```

Output:

CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O
c3b58f18402b	mynginx	0.00%	1.3MiB / 1.952GiB	0.07%	1.4kB / 648B
		PIDS			
		2			

25. docker inspect <container_name_or_id>

Description: Returns detailed information about a container or image.

Example:

```
docker inspect mynginx
```

Output:

```
[ { "Id":  
"c3b58f18402b2e284b25d13e9d6a0b7145ad7ecb70f2a3ec7c83835b1a6dfe64",
```