



50 Docker Commands For Container Management, Image Manipulation, Networking & More

Container Management:

1. Run a Container:

```
docker run [OPTIONS] IMAGE[:TAG] [COMMAND] [ARG...]
```

2. List Running Containers:

```
docker ps
```

3. List All Containers:

```
docker ps -a
```

4. Stop a Running Container:

```
docker stop CONTAINER_ID
```

5. Remove a Container:

```
docker rm CONTAINER_ID
```

6. Remove All Stopped Containers:

```
docker container prune
```

7. Inspect Container Details:

```
docker inspect CONTAINER_ID
```

8. Attach to a Running Container:

```
docker exec -it CONTAINER_ID /bin/bash
```

Image Manipulation:

9. List Local Images:

```
docker images
```

10. Pull an Image from Docker Hub:

```
docker pull IMAGE[:TAG]
```

11. Build an Image from Dockerfile:

```
docker build -t IMAGE_NAME:TAG PATH_TO_DOCKERFILE
```

12. Remove an Image:

```
docker rmi IMAGE_ID
```

13. Remove All Unused Images:

```
docker image prune
```

Networking:

14. List Networks:

```
docker network ls
```

15. Inspect Network Details:

```
docker network inspect NETWORK_ID
```

16. Create a Bridge Network:

```
docker network create --driver bridge NETWORK_NAME
```

17. Connect Container to Network:

```
docker network connect NETWORK_NAME CONTAINER_NAME
```

18. Disconnect Container from Network:

```
docker network disconnect NETWORK_NAME CONTAINER_NAME
```

Volume Management:

19. List Volumes:

```
docker volume ls
```

20. Inspect Volume Details:

```
docker volume inspect VOLUME_NAME
```

21. Create a Volume:

```
docker volume create VOLUME_NAME
```

22. Remove a Volume:

```
docker volume rm VOLUME_NAME
```

Container Logs:

23. View Container Logs:

```
docker logs CONTAINER_ID
```

24. Tail Container Logs:

```
docker logs -f CONTAINER_ID
```

Docker Compose:

25. Run Docker Compose:

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

26. Stop Docker Compose Services:

```
docker-compose down
```

27. Build and Run Docker Compose:

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

Docker System:

28. Display System-Wide Information:

```
docker info
```

29. Show Docker Disk Usage:

```
docker system df
```

30. Remove All Unused Data:

```
docker system prune
```

Docker Registry:

31. Login to Docker Hub:

```
docker login
```

32. Push Image to Docker Hub:

```
docker push IMAGE[:TAG]
```

33. Pull Image from Private Registry:

```
docker pull REGISTRY_URL/IMAGE[:TAG]
```

Docker Swarm:

34. Initialize Docker Swarm:

```
docker swarm init
```

35. Join Node to Swarm:

```
docker swarm join --token TOKEN IP:PORT
```

36. List Nodes in Swarm:

```
docker node ls
```

37. Create a Service:

```
docker service create [OPTIONS] IMAGE[:TAG] [COMMAND] [ARG...]
```

38. Scale a Service:

```
docker service scale SERVICE_NAME=REPLICAS
```

39. Inspect Service Details:

```
docker service inspect SERVICE_NAME
```

40. Remove a Service:

```
docker service rm SERVICE_NAME
```

Docker Security:

41. Check Container Vulnerabilities:

```
docker scan IMAGE[:TAG]
```

42. Run Container with Security Options:

```
docker run --security-opt seccomp=unconfined --cap-add=SYS_PTRACE -it  
IMAGE[:TAG]
```

43. Run Container with Readonly Filesystem:

```
docker run --read-only -it IMAGE[:TAG]
```

Docker Stats:

44. Display Real-time Container Resource Usage:

```
docker stats CONTAINER_ID
```

Docker Events:

45. Monitor Docker Events:

```
docker events
```

Docker Debugging:

46. Inspect Docker Bridge Network:

```
docker network inspect bridge
```

47. View Docker Daemon Logs:

```
journalctl -u docker
```

48. Check Docker Version:

```
docker version
```

Miscellaneous:

49. Copy Files between Host and Container:

```
docker cp SOURCE_PATH CONTAINER_ID:DEST_PATH
```

50. Create a Custom Docker Bridge Network:

```
docker network create --driver bridge --subnet=SUBNET_NAME  
CUSTOM_NETWORK_NAME
```

This cheat sheet covers a wide range of Docker commands for container management, image manipulation, networking, and more. Customize commands based on your specific use case and requirements.