

Essential Docker Commands

1.System & Setup

Command	Description	Example
systemctl status docker	Check Docker service status	systemctl status docker
systemctl start docker	Start Docker service	systemctl start docker
systemctl enable docker	Enable Docker at boot	systemctl enable docker
docker version	Show Docker client & server version	docker version
grep docker /etc/group	Check if docker group exists	grep docker /etc/group
usermod -aG docker <user>	Add user to docker group	usermod -aG docker pavan

2.Image Commands

Command	Description	Example
docker images	List available images	docker images
docker search <image>	Search images on Docker Hub	docker search ubuntu
docker pull <image>	Download image from Docker Hub	docker pull ubuntu
docker rmi <image_id>	Remove one or more images	docker rmi 7e30f3a64660
docker inspect <image>	Inspect image details	docker inspect ubuntu:latest
docker build -t <name>: <tag> .	Build image from Dockerfile	docker build -t myapp:1.0 .

Command	Description	Example
<code>docker commit <container> <image></code>	Create image from container	<code>docker commit container1 ubuntu:python3</code>
<code>docker save -o <file>.tar <image></code>	Save image to file	<code>docker save -o web.tar web:latest</code>
<code>docker load -i <file>.tar</code>	Load image from file	<code>docker load -i web.tar</code>

3.Container Commands

Command	Description	Example
<code>docker run <image></code>	Run a container	<code>docker run hello-world</code>
<code>docker run -it <image> bash</code>	Run interactively with shell	<code>docker run -it ubuntu bash</code>
<code>docker run -d --name <cname> <image></code>	Run in background with name	<code>docker run -d --name container1 ubuntu</code>
<code>docker ps</code>	List running containers	<code>docker ps</code>
<code>docker ps -a</code>	List all containers	<code>docker ps -a</code>
<code>docker stop <cname></code>	Stop container	<code>docker stop container1</code>
<code>docker start <cname></code>	Start container	<code>docker start container1</code>
<code>docker rm <cname></code>	Remove container	<code>docker rm container1</code>
<code>docker exec -it <cname> bash</code>	Access shell inside container	<code>docker exec -it container1 bash</code>
<code>docker logs <cname></code>	Show logs	<code>docker logs container1</code>
<code>docker inspect <cname></code>	Inspect container details	<code>docker inspect container1</code>

4. Networking

Command	Description	Example
<code>docker network create --driver bridge <name></code>	Create custom network	<code>docker network create mynet</code>
<code>docker network ls</code>	List networks	<code>docker network ls</code>
<code>docker run -p <host>:<container> <image></code>	Map container port to host	<code>docker run -d -p 8080:80 nginx</code>
<code>docker network inspect <name></code>	Inspect network	<code>docker network inspect mynet</code>
<code>docker network connect <net> <cname></code>	Attach container to network	<code>docker network connect mynet container1</code>
<code>docker network disconnect <net> <cname></code>	Detach container from network	<code>docker network disconnect mynet container1</code>

5. Volumes

Command	Description	Example
<code>docker volume ls</code>	List volumes	<code>docker volume ls</code>
<code>docker volume create <name></code>	Create volume	<code>docker volume create myvol</code>
<code>docker run -v /host:/container <image></code>	Bind mount directory	<code>docker run -v /home/data:/app ubuntu</code>
<code>docker run -v <vol>:/path <image></code>	Use named volume	<code>docker run -v myvol:/var/log ubuntu</code>
<code>docker volume inspect <name></code>	Inspect volume	<code>docker volume inspect myvol</code>
<code>docker volume rm <name></code>	Remove volume	<code>docker volume rm myvol</code>

6.Cleanup

Command	Description	Example
<code>docker stop \$(docker ps -q)</code>	Stop all containers	<code>docker stop \$(docker ps -q)</code>
<code>docker rm \$(docker ps -aq)</code>	Remove all containers	<code>docker rm \$(docker ps -aq)</code>
<code>docker rmi \$(docker images -q)</code>	Remove all images	<code>docker rmi \$(docker images -q)</code>

7.Docker Compose

Command	Description	Example
<code>docker compose version</code>	Check Compose version	<code>docker compose version</code>
<code>docker compose up -d</code>	Start services in background	<code>docker compose up -d</code>
<code>docker compose down</code>	Stop and remove services	<code>docker compose down</code>
<code>docker compose ps</code>	List Compose services	<code>docker compose ps</code>

I've put together this Docker Commands Cheat Sheet to make container basics easier.

Feel free to bookmark it or share it with your network!

Which Docker command is your daily lifesaver? Let me know below

– **Shrish Pattewar**