**Docker Command Cheatsheet (New & Old Syntax)**

🐳 Container Operations

**Run Containers**

| **Operation** | **OLD Syntax** | **NEW Syntax** |
| --- | --- | --- |
| Run container | docker run nginx | docker container run nginx |
| Run detached | docker run -d nginx | docker container run -d nginx |
| Run with name | docker run --name web nginx | docker container run --name web nginx |
| Run with ports | docker run -p 8080:80 nginx | docker container run -p 8080:80 nginx |
| Run with volumes | docker run -v /data nginx | docker container run -v /data nginx |
| Run with env vars | docker run -e VAR=value nginx | docker container run -e VAR=value nginx |

**List Containers**

| **Operation** | **OLD Syntax** | **NEW Syntax** |
| --- | --- | --- |
| List running | docker ps | docker container ls |
| List all | docker ps -a | docker container ls -a |
| List with format | docker ps --format "table {{.Names}}\t{{.Status}}" | docker container ls --format "table {{.Names}}\t{{.Status}}" |

**Manage Containers**

| **Operation** | **OLD Syntax** | **NEW Syntax** |
| --- | --- | --- |
| Stop container | docker stop container | docker container stop container |
| Start container | docker start container | docker container start container |
| Restart container | docker restart container | docker container restart container |
| Remove container | docker rm container | docker container rm container |
| Force remove | docker rm -f container | docker container rm -f container |
| Pause container | docker pause container | docker container pause container |
| Unpause container | docker unpause container | docker container unpause container |

**Container Info**

| **Operation** | **OLD Syntax** | **NEW Syntax** |
| --- | --- | --- |
| View logs | docker logs container | docker container logs container |
| Follow logs | docker logs -f container | docker container logs -f container |
| Inspect container | docker inspect container | docker container inspect container |
| View stats | docker stats container | docker container stats container |
| View processes | docker top container | docker container top container |

**Exec & Copy**

| **Operation** | **OLD Syntax** | **NEW Syntax** |
| --- | --- | --- |
| Execute command | docker exec -it container bash | docker container exec -it container bash |
| Copy to container | docker cp file.txt container:/path/ | docker container cp file.txt container:/path/ |
| Copy from container | docker cp container:/path/file.txt . | docker container cp container:/path/file.txt . |

🏗️ Image Operations

**Build & Manage Images**

| **Operation** | **OLD Syntax** | **NEW Syntax** |
| --- | --- | --- |
| Build image | docker build -t my-image . | docker image build -t my-image . |
| List images | docker images | docker image ls |
| Pull image | docker pull nginx | docker image pull nginx |
| Push image | docker push my-image | docker image push my-image |
| Remove image | docker rmi my-image | docker image rm my-image |
| Tag image | docker tag old new:tag | docker image tag old new:tag |
| Inspect image | docker inspect image | docker image inspect image |

📦 Volume Operations

| **Operation** | **OLD Syntax** | **NEW Syntax** |
| --- | --- | --- |
| Create volume | docker volume create my-vol | docker volume create my-vol |
| List volumes | docker volume ls | docker volume ls |
| Inspect volume | docker volume inspect my-vol | docker volume inspect my-vol |
| Remove volume | docker volume rm my-vol | docker volume rm my-vol |

🌐 Network Operations

| **Operation** | **OLD Syntax** | **NEW Syntax** |
| --- | --- | --- |
| List networks | docker network ls | docker network ls |
| Create network | docker network create my-net | docker network create my-net |
| Inspect network | docker network inspect my-net | docker network inspect my-net |
| Remove network | docker network rm my-net | docker network rm my-net |
| Connect container | docker network connect my-net container | docker network connect my-net container |
| Disconnect container | docker network disconnect my-net container | docker network disconnect my-net container |

🧹 Cleanup Operations

| **Operation** | **OLD Syntax** | **NEW Syntax** |
| --- | --- | --- |
| Remove stopped containers | docker container prune | docker container prune |
| Remove unused images | docker image prune | docker image prune |
| Remove unused volumes | docker volume prune | docker volume prune |
| Remove unused networks | docker network prune | docker network prune |
| Full system cleanup | docker system prune | docker system prune |
| Aggressive cleanup | docker system prune -a | docker system prune -a |

🔍 System Info

| **Operation** | **OLD Syntax** | **NEW Syntax** |
| --- | --- | --- |
| Docker version | docker version | docker version |
| System info | docker info | docker system info |
| Disk usage | docker system df | docker system df |
| Events | docker events | docker system events |

🎯 Docker Compose

| **Operation** | **OLD Syntax** | **NEW Syntax** |
| --- | --- | --- |
| Start services | docker-compose up | docker compose up |
| Start detached | docker-compose up -d | docker compose up -d |
| Stop services | docker-compose down | docker compose down |
| View logs | docker-compose logs | docker compose logs |
| List services | docker-compose ps | docker compose ps |
| Build images | docker-compose build | docker compose build |
| Execute command | docker-compose exec service bash | docker compose exec service bash |