

# Docker Cheat Sheet (Beginner - Ubuntu)

## Common Docker Commands:

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`docker build -t appname .`

`docker run -d -p hostPort:containerPort appname`

`docker ps`

`docker exec -it <container_id> /bin/bash`

`docker logs <container_id>`

`docker stop <container_id>`

`docker rm <container_id>`

## Dockerfile Key Instructions:

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`FROM` -> Base image

`WORKDIR` -> Set working directory

`COPY` -> Copy files

`RUN` -> Run commands (install deps)

`EXPOSE` -> Open port

`CMD` -> Default run command

## Docker Compose Example:

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`version: '3.8'`

`services:`

`web:`

`build: .`

`ports:`

`- "5000:5000"`

`depends_on:`

`- redis`

`redis:`

`image: redis:alpine`

## Useful Tips:

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- Always use `.dockerignore` to reduce image size.
- Use multi-stage builds for production.
- Use `docker compose up -d` for multi-container apps.