

# 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.