

1 Slides

What is Docker

How does Docker work?

Docker vs Virtual machines

The advantages of Docker

Images and containers

Public Docker register

Run image

Run image with arguments

Get Docker

Home work #1

	Dockerfile and base instructions	FROM RUN CMD
	How to create an image	build
	Improve whalesay image	
	Dockerfile instructions	COPY ADD
	Dockerfile instructions	ENV ARG
2 Slides	Dockerfile instructions	USER WORKDIR
	Dockerfile instructions	EXPOSE ENTRYPOINT VOLUME
	Dockerfile instructions	ONBUILD LABEL
	Push image	
	Home work #2.1	
	Home work #2.2	

3 Slides

- Best practices — Containers should be ephemeral
- Best practices — Use a .dockerignore file
- Best practices — Each container should have only one concern
- Best practices — Avoid installing unnecessary packages
- Best practices — Minimize the number of layers
- Best practices — Don't store data within container
- Manage images
- Manage containers
- Most useful docker run [OPTIONS]
- Run a command in a running container
- Cleaning Up
- Home work #3.1
- Home work #3.2

4 Slides

Overview of Docker Compose

"Hits" application

Run "Hits"

docker-compose.yml versions

docker-compose

docker-compose — sub-commands

"Hits" in Docker Compose

Save Redis hits' count

Allow proxy for "Hits" application

Scale "Hits" application

Home work #4.1

Home work #4.2

