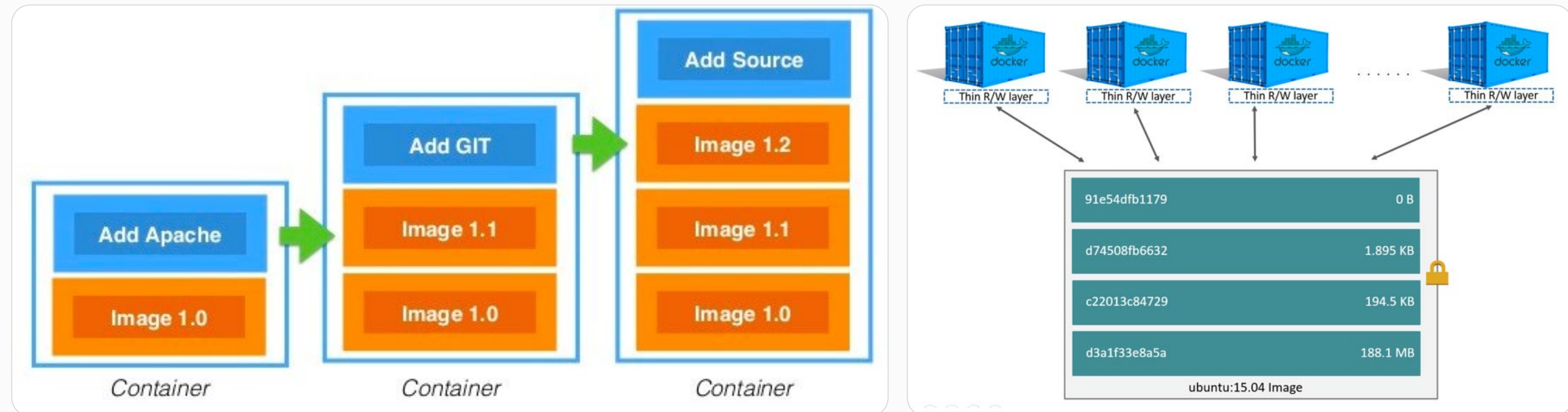


Dockerfile

План видео

- ✓ Познакомиться с Dockerfile
- ✓ Разобрать синтаксис основных инструкций
- ✓ Типовая структура

Docker image



Простейший Dockerfile

```
FROM ubuntu:latest
```

```
RUN apt update && apt install -y iputils-ping
```

```
COPY docker-entrypoint.sh /docker-entrypoint.sh
```

```
ENTRYPOINT ["/docker-entrypoint.sh"]
```

Инструкция FROM

```
FROM ubuntu:18.04
```

```
FROM [--platform=<platform>] <image>[AS <name>]
```

```
FROM [--platform=<platform>] <image>[:<tag>][AS <name>]
```

```
FROM [--platform=<platform>] <image>[@<digest>][AS <name>]
```

```
ARG CODE_VERSION=latest
```

```
FROM base:${CODE_VERSION}
```

```
CMD /code/run-app
```

```
FROM extras:${CODE_VERSION}
```

```
CMD /code/run-extras
```

Инструкция RUN

RUN apt update && apt install -y iputils-ping

RUN apt update && apt install -y iputils-ping — shell-форма

RUN ["apt", "update", "&&", "apt", "install", "-y", "iputils-ping"] — exec-форма

RUN apt-get update && apt-get install -y \

aufs-tools \

automake \

build-essential \

curl \

all\

your\

other\

packages\

&& rm -rf /var/lib/{apt,dpkg,cache,log}/

COPY и ADD

COPY docker-entrypoint.sh /docker-entrypoint.sh

ADD git@git.example.com:foo/bar.git /bar

ADD [--chown=<user>:<group>] <src>... <dest>

ADD [--chown=<user>:<group>] ["<src>",... "<dest>"]

COPY [--chown=<user>:<group>] <src>... <dest>

COPY [--chown=<user>:<group>] ["<src>",... "<dest>"]

COPY и ADD примеры

```
ADD --chown=www-data:www-data src/html, /var/www/html/
```

```
COPY --chown=www-data:www-data src/html, /var/www/html/
```

```
ADD srcFolder1, srcFolder2, srcFile, dstFolder/
```

```
COPY srcFolder1, srcFolder2, srcFile, dstFolder/
```

```
ADD hom* /mydir/
```

```
ADD hom?.txt /mydir/
```

```
COPY hom* /mydir/
```

```
COPY hom?.txt /mydir/
```


ENTRYPOINT и CMD

ENTRYPOINT ["ping"]

CMD ["127.0.0.1"]

	No ENTRYPOINT	ENTRYPOINT exec_entry p1_entry	ENTRYPOINT ["exec_entry", "p1_entry"]
No CMD	<i>error, not allowed</i>	/bin/sh -c exec_entry p1_entry	exec_entry p1_entry
CMD ["exec_cmd", "p1_cmd"]	exec_cmd p1_cmd	/bin/sh -c exec_entry p1_entry	exec_entry p1_entry exec_cmd p1_cmd
CMD exec_cmd p1_cmd	/bin/sh -c exec_cmd p1_cmd	/bin/sh -c exec_entry p1_entry	exec_entry p1_entry /bin/sh -c exec_cmd p1_cmd

Изображение: Взаимоотношения ENTRYPOINT и CMD

Итоги

- ✓ Dockerfile — это
FROM → RUN → RUN → RUN →
ENTRYPOINT → CMD

- ✓ Контейнер работает, пока работает PID 1

- ✓ COPY предпочтительнее ADD

FROM ubuntu

RUN apt update && apt install -y iputils-ping

#ENTRYPOINT ping 127.0.0.1

ENTRYPOINT ["ping"]

CMD ["127.0.0.1"]

ENTRYPOINT ping 127.0.0.1