

Docker file Report

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Copy vs Add

(COPY | ADD) <source> <destination>

They both can transfer files into docker image

The main difference is

Add can **automatically extracts** the contents into the destination directory
And can **download files from remote URLs** directly into the image.

How to view label

You can view labels using inspect for both image or container

Image

```
docker inspect --format='{{json .Config.Labels}}' <image_name_or_id>
```

Container

```
docker inspect --format='{{json .Config.Labels}}' <container_name_or_id>
```

ARG

variables are used to pass information into the Docker build process.

Example

```
ARG VERSION=1.0  
FROM nginx:${VERSION}
```

ONBUILD

The instruction inside ONBUILD doesn't run when the image itself is built but only when another Dockerfile uses that image as a base

SHELL

instruction in a Dockerfile allows you to specify the default shell used for commands that follow in the Dockerfile

Default is `/bin/sh -c`

ENTRYPOINT vs CMD

They are both Dockerfile instructions used to define the command and arguments

ENTRYPOINT

Defines the main executable that will always run when the container starts. It sets the primary command for the container.

command is executed every time the container starts.

The ENTRYPOINT command is not overridden. Any arguments passed to

CMD

arguments can be overridden by providing different arguments when running

Provides default arguments for the ENTRYPOINT command or specifies the default command to run if ENTRYPOINT is not defined.