

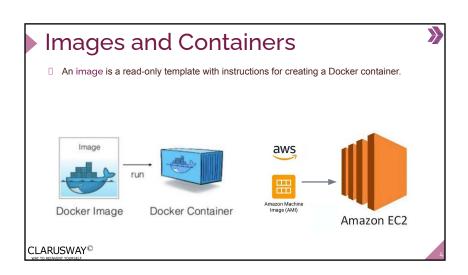
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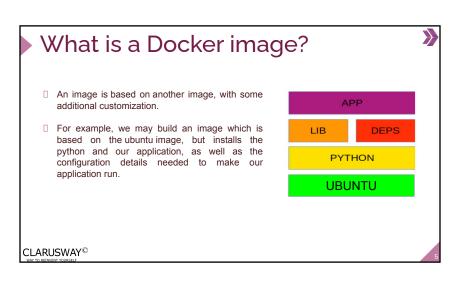
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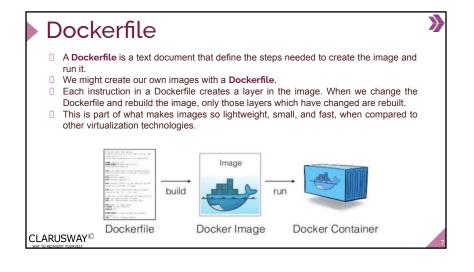
1 What is a Docker image?

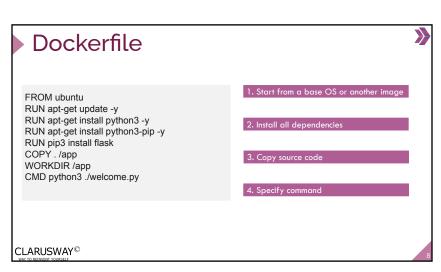
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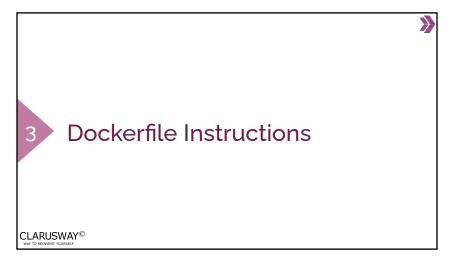












Dockerfile Instructions Instruction Description The FROM instruction initializes a new build stage and sets the <u>Base Image</u> for FROM subsequent instructions. As such, a valid Dockerfile must start with a FROM instruction. The RUN instruction will execute any commands in a new layer on top of the current RUN image and commit the results. The resulting committed image will be used for the next step in the Dockerfile. The main purpose of a CMD is to provide defaults for an executing container. There can only be one CMD instruction in a Dockerfile. If you list more than one CMD then only CMD the last CMD will take effect. The EXPOSE instruction informs Docker that the container listens on the specified **EXPOSE** network ports at runtime. You can specify whether the port listens on TCP or UDP, and the default is TCP if the protocol is not specified. CLARUSWAY®

Dockerfile Instructions

Instruction	Description
ENV	The ENV instruction sets the environment variable <key> to the value <value>.</value></key>
ADD	The ADD instruction copies new files, directories or remote file URLs from <src> and adds them to the filesystem of the image at the path <dest>.</dest></src>
COPY	The COPY instruction copies new files or directories from <src> and adds them to the filesystem of the container at the path <dest>.</dest></src>
ENTRYPOINT	An ENTRYPOINT allows you to configure a container that will run as an executable.
VOLUME	The VOLUME instruction creates a mount point with the specified name and marks it as holding externally mounted volumes from native host or other containers.

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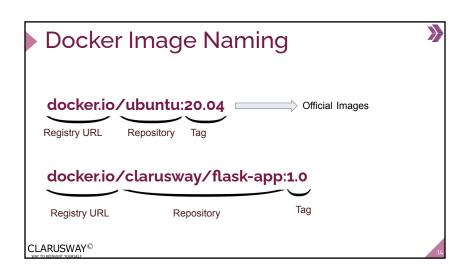
Dockerfile Instructions

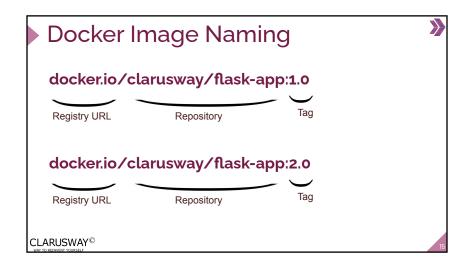
Instruction	Description
WORKDIR	The WORKDIR instruction sets the working directory for any RUN, CMD, ENTRYPOINT, COPY and ADD instructions that follow it in the Dockerfile. If the WORKDIR doesn't exist, it will be created even if it's not used in any subsequent Dockerfile instruction.
ARG	The ARG instruction defines a variable that users can pass at build-time to the builder with the docker build command using thebuild-arg <varname>=<value> flag. If a user specifies a build argument that was not defined in the Dockerfile, the build outputs a warning.</value></varname>
HEALTHCHECK	The HEALTHCHECK instruction tells Docker how to test a container to check that it is still working. This can detect cases such as a web server that is stuck in an infinite loop and unable to handle new connections, even though the server process is still running.

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4 Docker Image Naming

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Command	Description
docker image build	Build an image from a Dockerfile
docker image history	Show the history of an image
docker image inspect	Display detailed information on one or more images
docker image Is	List images
docker image prune	Remove unused images
docker image pull	Pull an image or a repository from a registry
docker image push	Push an image or a repository to a registry
docker image rm	Remove one or more images
docker image tag	Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE

