DOCKER FOR THE MODERN JAVA DEVELOPER

Tips, Tricks and Tools for when you are in the weeds

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DOCKER IN A NUTSHELL

• Images are read-only definitions used to create a container (they describe the content of a container, starting with a base image, at the very least a base Linux OS)

• You can browse shared images at Docker Hub (or host your own hub)

• Images can be used as the starting point and extended to create other images

• A container is an instance of an image that can start, pause, stop

BUILDER PATTERN

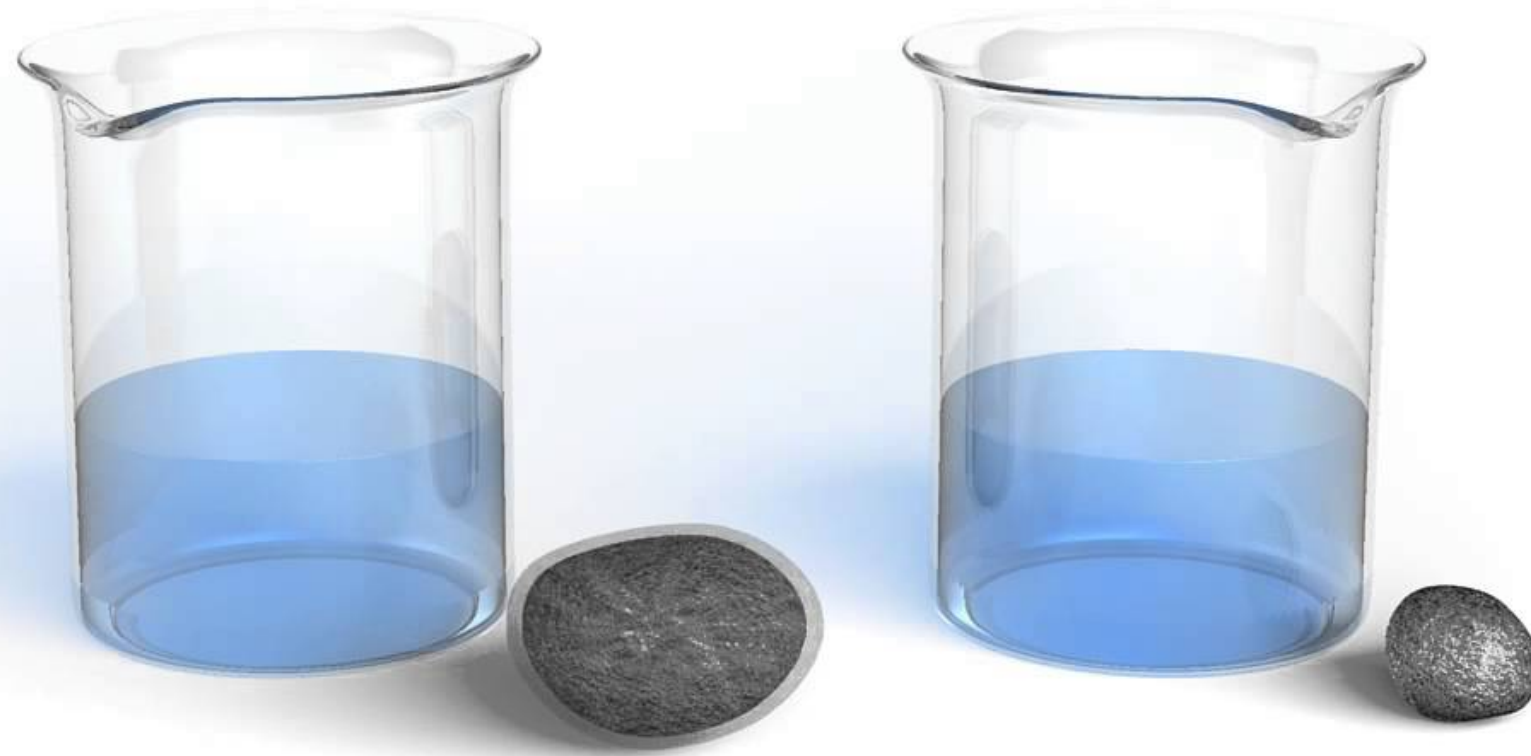How, When, Where?

GUIDELINES

- Useful wherever you need multiple builders

- Remove the need to have scripts that change machine configuration

- Great for trying out new versions of tools

BIND MOUNT OR VOLUME?

TRADEOFFS

- Volumes are better for longer term (ie databases)

- Volumes persist after Docker container stops

- Bind mount is better for host/container integration (ie running maven in a container as well as on the host)

- Bind mount provides better visibility into where files are stored

CHAOS REIGNS

HOW NOT TO GO BANANAS

- The network is reliable

- Latency is zero

- Bandwidth is infinite

- The network is secure

- Topology doesn't change

- There is one administrator

- Transport cost is zero

- The network is homogeneous

QUESTIONS?