



Docker Deep Dive

Docker Images and Containers

What are Docker Images?

Docker Images:

- Use images to create an instance of a container
- Comprised of multiple layers
- Build time constructs
- Built from the instructions

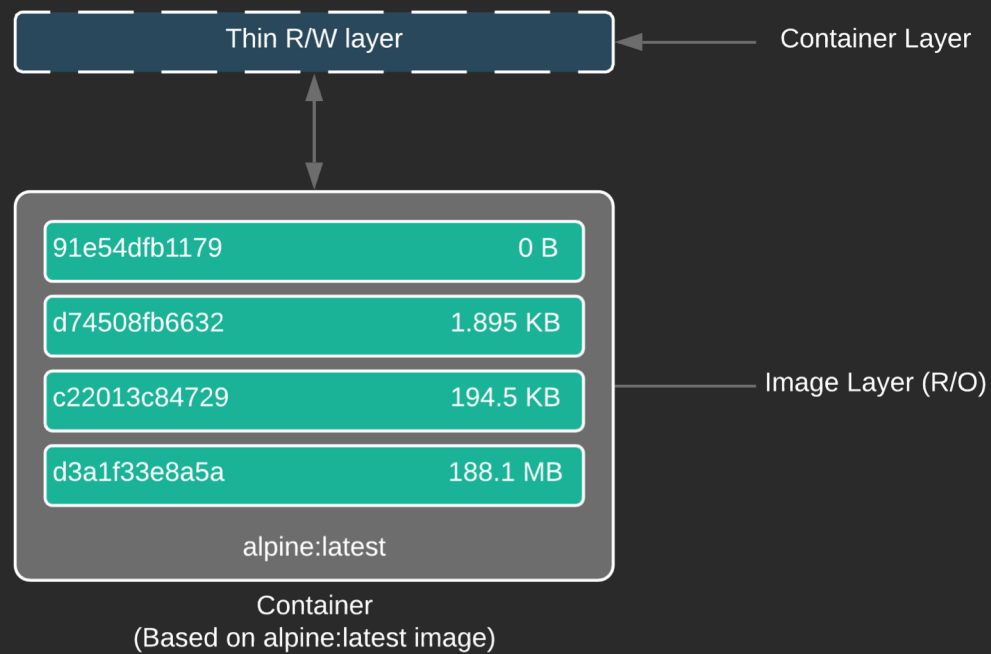


Docker Images and Layers

- Images are made of multiple layers
- Each layer represents an instruction in the image's Dockerfile
- Each layer, except the very last one, is read-only
- Each layer is only a set of differences from the layer before it
- Containers add a new writable layer on top of the underlying layers
- All changes made to a running container are made to the Container layer



Docker Images and Layers (cont.)

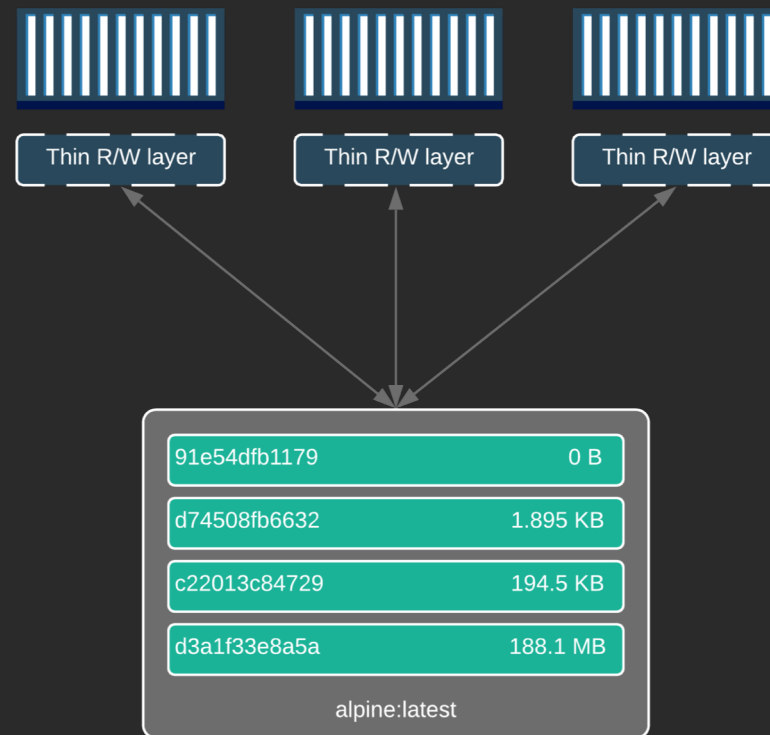


Container and Layers

- Top writable layer
- All changes are stored in the writable layer
- The writable layer is deleted when the container is deleted
- The image remains unchanged



Container and Layers (cont.)



Containers

Container Use Cases:

- Tasks
 - Used to perform one-off jobs
- Long-running processes (LRP)
 - Run until terminated

