Creating a Dockerfile

Flow

- Specify a base image
- Run some commands to install additional programs
- Specify a command to run on container startup

Instruction telling Docker Server What to do	Argument to the instruction
FROM	alpine
RUN	apk add --update redis
CMD	["redis-server"]

Dockerfile → Docker Client → Docker Server → Usable Image

Configuration file to define how our container should behave

docker build .

Tag an Image — Specify directory of files/folders to use for the build
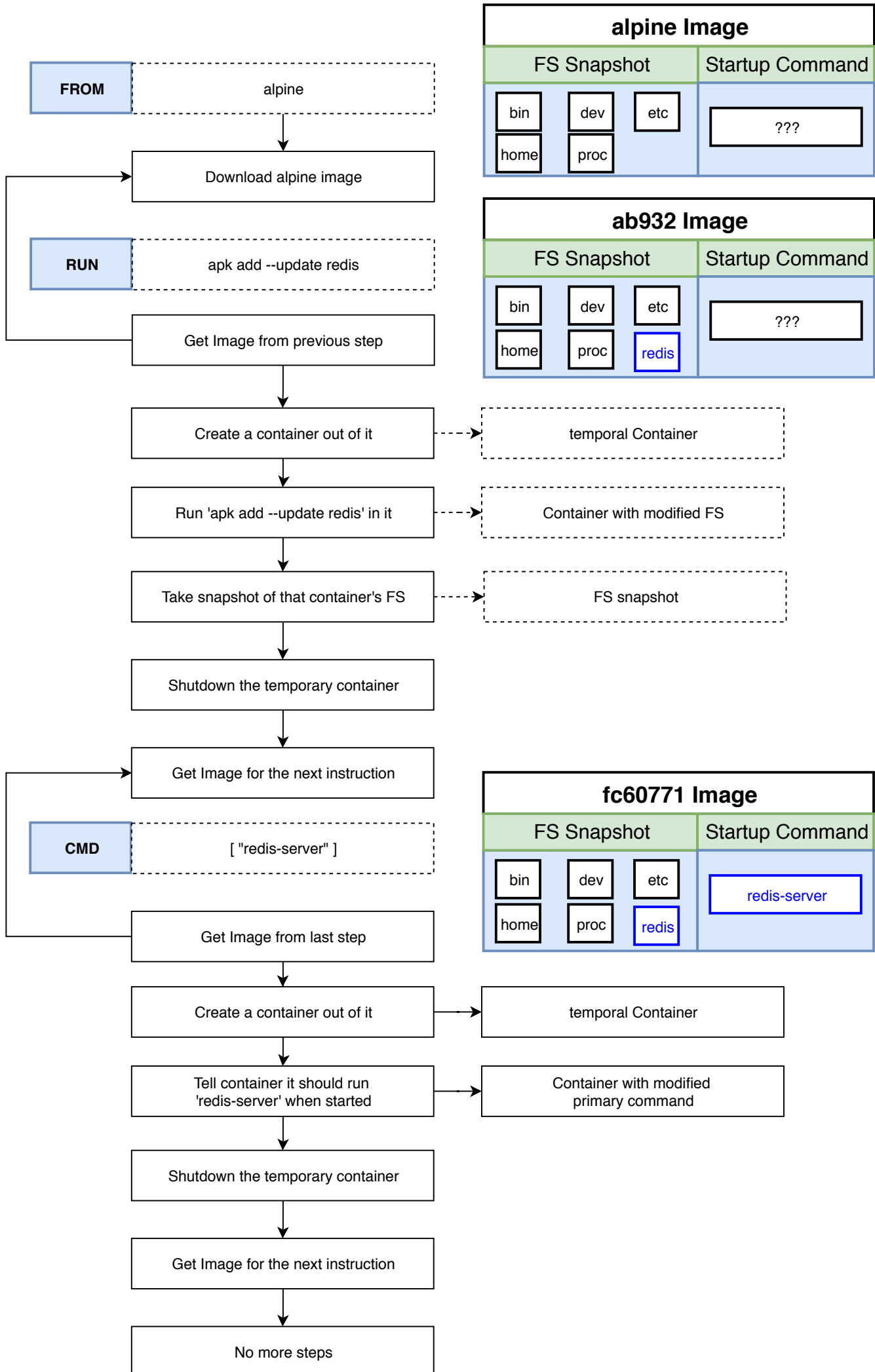
docker	build	**-t** jsmile/redis:latest	.

jsmile	/	**redis**	:	**lastest**

your Docker ID — Repo / Project Name — version

alpine Image

FS Snapshot	Startup Command
bin dev etc home proc	???

ab932 Image

FS Snapshot	Startup Command
bin dev etc home proc redis	???

fc60771 Image

FS Snapshot	Startup Command
bin dev etc home proc redis	redis-server

FROM ---- alpine

Download alpine image

RUN ---- apk add --update redis

Get Image from previous step

Create a container out of it ----> temporal Container

Run 'apk add --update redis' in it ----> Container with modified FS

Take snapshot of that container's FS ----> FS snapshot

Shutdown the temporary container

Get Image for the next instruction

CMD ---- ["redis-server"]

Get Image from last step

Create a container out of it ----> temporal Container

Tell container it should run 'redis-server' when started ----> Container with modified primary command

Shutdown the temporary container

Get Image for the next instruction

No more steps

- If the order of operations is different, the cache cannot be used.