Q: How to leverage cache using Dockerfiles

Caching can be leveraged by identifying a previously used instruction or image in Docker File and executing it from previous instance. This saves the build time for DockerFile.

Q: What are multi-stage builds

When images are build with one or more builds incorporated into the same dockerfile is termed as multi-stages build.

Q: Explain containers vs Image

Image is a read only file that contains specific instructions at the time of build. Image is created using a dockerfile that list set of instructions.

Containers are realized when a run-time environment is created out of an image. Docker CLI is used to create a container from an image.

Q: Explain RUN vs CMD vs Entrypoint

Run is a build time command i.e. it is used to build an image, it helps to install required components / packages during the build phase that are required for execution at runtime phase.

CMD is a runtime command that can be configured during both build stage and runtime stage. If ENTRYPOINT is not declared, CMD becomes first execute command at runtime.

Entrypoint is defined as the first executable command at runtime. This can not be overwritted or changed. If Entrypoint is not declared, CMD becomes the first command to execute.