**Dockerfile**

**docker build -t url/username/image:version .**

**docker build image:version .**

**docker tag image:version url/username/image:version**

**docker login**

**docker push image:version url/username/image:version**

**RUN vs CMD**

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**systemctl start catalogue**

**it will create one nodejs process and this process will run for infinte time...**

**CMD instruction is to make your container running..**

**RUN --> runs at the time of image building**

**CMD --> runs at the time container creation**

**every container is a process.**

**systemctl commands will not work in containers...**

**command should be foreground and attach to the screen, then you send it into background**

**100 shopping covers all are white, you know only when you open them**

**you can give some lables to them to identify easily**

**COPY vs ADD**

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**both are used to copy the files from local to image... but ADD have 2 extra capabilities**

**1. It can directly download files from internet**

**2. It can directly untar the tar files..**

**CMD vs ENTRYPOINT**

**1. CMD command can be overridden by another command at run time.**

**ping google.com ping yahoo.com**

**2. ENTRYPOINT command can't be overridden, if you try to do so, the command you are entering at run time will go and append to ENTRYPOINT**

**We can use CMD and ENTRYPOINT for best results**

**1. You can use CMD instruction to supply default arguements to ENTRYPOINT**

**2. user can always override CMD arguements from run time**

**ARG vs ENV**

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**ARG instruction can provide values to the Dockerfile only at buildtime. ENV variables have access in the container**

**How can I use ARG variables inside container?**

**Assign the values of ARG to ENV variables so that you can access them inside container as well**

**ARG instruction can be used before FROM instruction to provide values to FROM instruction.**

**ARG value deffnied before FROM will not be accessed after FROM**

**ONBUILD**

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**author of image: I want to force users of image to follow something**