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Listen 100 Days of DevOps — Day 59- Introduction to **DockerFile** Welcome to Day 59 of 100 Days of DevOps, Focus for today is DockerFile What is DockerFile? • A Dockerfile is a text document that contains all the commands a user could call on the command line to assemble an image Basic Dockerfile look like this #My first test docker file FROM centos:7 LABEL maintainer="plakhera@example.com" RUN yum —y install httpd When we build a dockerfile it should name as Dockerfile(case-sensitive) FROM specify from where we building this image LABEL refer to the person who is maintaining/creating this image(earlier maintainer option is deprecated and it's label now) • RUN refer to the command we are running

RUN refer to the command we are running
Now we are going to build in the context(. indicate the current directory)

# docker build -t myfirstimage:v1 .

Sending build context to Docker daemon 2.048kB

Step 1/3: FROM centos:7

Step 2/3 : LABEL maintainer="plakhera@example.com"

v1

---> e934aafc2206

---> a4f7e2fbcc92

myfirstimage

ago

334MB

Step 1/3 : FROM centos:7

---> e934aafc2206

---> Using cache

---> 2b72d79436b1

inside the dockerfile is not changed)

# docker build -t myfirstimage:v1 .

Step 3/3 : RUN yum -y install httpd

\$ docker build -t mynewapache:v2 .

Step 1/3 : FROM centos:7

---> Running in 622b311b5f37

Loaded plugins: fastestmirror, ovl

• We can check the image again

\$ docker images

---> e934aafc2206

Sending build context to Docker daemon 2.048kB

Step 2/3 : label maintainer="plakhera1@example.com"

Sending build context to Docker daemon 2.048kB

Step 2/3 : LABEL maintainer="plakhera@example.com"

Step 3/3 : RUN yum -y install httpd

---> Running in 57199dabb5ec

• Here step refers to the layer

• To check the image(Name of the image, is the result of the tag we passed during docker build command)

# docker images

REPOSITORY TAG IMAGE ID CREATED

SIZE

2b72d79436b1

2 minutes

---> Using cache
---> a4f7e2fbcc92

• If we run this command again, it's going to use the cache(if the instruction

Successfully built 2b72d79436b1

Successfully tagged myfirstimage:v1

Now what would be the case if I change any instruction inside Dockerfile(here I changed maintainer from plakhera to plakhera1

FROM centos:7

label maintainer="plakheral@example.com"

RUN yum -y install httpd

When I run the docker build again, as you can see as the instruction inside Dockerfile changed, it's trying to build that layer again and all the subsequent layers

Removing intermediate container 622b311b5f37

---> c61c698e355a

Step 3/3 : RUN yum -y install httpd

---> Running in f8f239688e77

*REPOSITORY* TAG IMAGE ID CREATED SIZE 8dcd8ccceb87 mynewapache 11 minutes *v*2 ago 334MB • If we don't want to use the cache as well as pull from dockerhub \$ docker build --pull --no-cache -t mynewapache:v3 . Sending build context to Docker daemon 2.048kB Looking forward from you guys to join this journey and spend a minimum an hour every day for the next 100 days on DevOps work and post your progress using any of the below medium.

Twitter: @100daysofdevops OR @lakhera2015

Medium: <u>https://medium.com/@devopslearning</u>

• GitHub Link: <a href="https://github.com/100daysofdevops">https://github.com/100daysofdevops</a>

Reference

earlier)

practices.

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collect and report system activity. ...

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Basics What is a docker? As per official documentation "Docker is a

RHCE, Docker Certified, 4XAWS, CCNA, MCP, Certified Jenkins, Terraform Certified,

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D-day is just one day away and finally, this is a continuation of the post(I posted a month

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performance bottleneck. There are various opensource tools available to narrow down the issu...

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Yellowdog Updater Modified Resolve one of the major issues with rpm where we need to resolve

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