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ADocker Metadata and labels.

Procedure:

1) To add a label on a container user option -l while launching container. For example, docker run -l user=12345 -d redis.

```
$ docker run -l user=12345 -d redis
d8ef05b3924e6a4608c8bc124494d626622a1e76fd3ddd4b3aa69b539d7ce58e
$ docker ps
CONTAINER ID        IMAGE               COMMAND                  CREATED             STATUS              PORTS
            NAMES
d8ef05b3924e        redis               "docker-entrypoint.s…"   8 seconds ago       Up 6 seconds        6379/tc
p           relaxed_hamilton
e06767208df1        redis               "docker-entrypoint.s…"   14 minutes ago      Up 14 minutes       6379/tc
p           rd
$ ^C
```

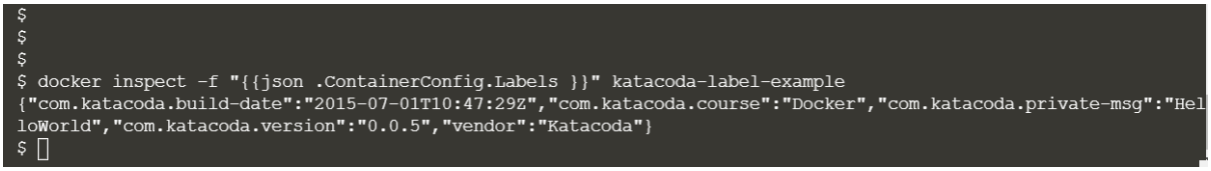
2) We can also add labels from external file. For this, use option --label-flie to provide file containing labels.

```
$
$ echo 'user=123461' >> labels && echo 'role=cache' >> labels
$ docker run --label-file=labels -d redis
82a2bf60268f38b4881a20749b15dbbb185a2ae0f14d295ff6c561337e9b9c6d
$
$ docker ps
CONTAINER ID        IMAGE               COMMAND                  CREATED             STATUS              PORTS
            NAMES
82a2bf60268f        redis               "docker-entrypoint.s…"   15 seconds ago      Up 14 seconds       6379/tc
p           wonderful_tereshkova
d8ef05b3924e        redis               "docker-entrypoint.s…"   2 minutes ago       Up 2 minutes        6379/tc
p           relaxed_hamilton
e06767208df1        redis               "docker-entrypoint.s…"   16 minutes ago      Up 16 minutes       6379/tc
p           rd
$
```

3) To see all the labels on a running container, use command **docker inspect**. But docker inspect will show other

information also. Using the *-f* option you can filter the JSON response to just the Labels section we're interested in.

4) We can also see labels on images. For this command is **docker inspect -f "{{json .ContainerConfig.Labels }}" katacoda-label-example**.



5) The command **docker ps** allows you to specify a filter based on a label name and value. For example, the query below will return all the containers which have a *user* label key with the value *katacoda*.

6) The same filter approach can be applied to images based on the labels used when the image was built.