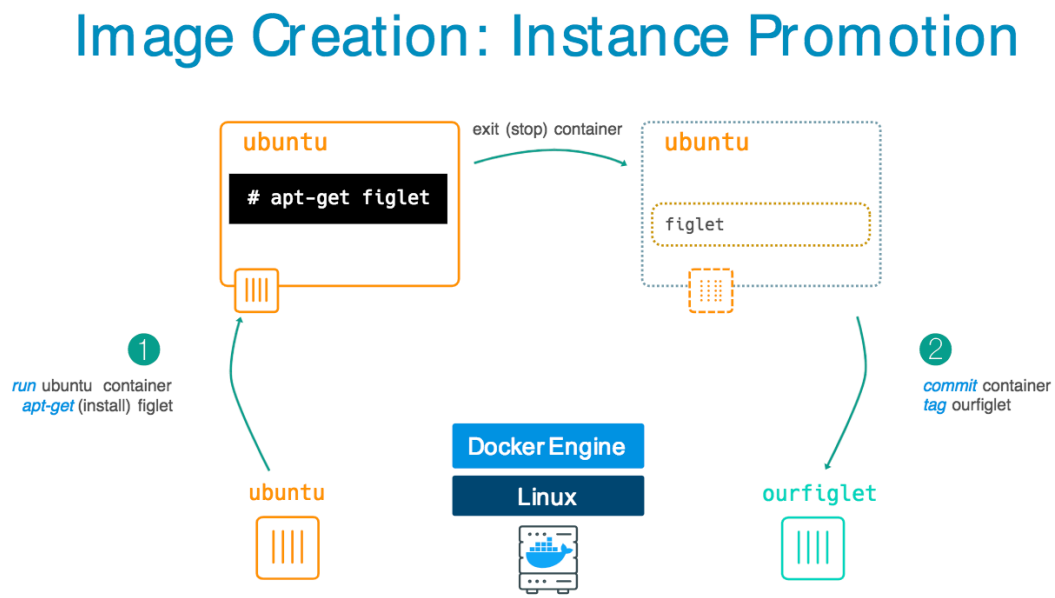
Docker Images Lab

Time spent: 60 min

Image creation from a container



1.Run the figlet in the container

```
Fetched 133 kB in 1s (264 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package figlet.
(Reading database ... 4038 files and directories currently installed.)
Preparing to unpack .../figlet_2.2.5-3_amd64.deb ...
Unpacking figlet (2.2.5-3) ...
Setting up figlet (2.2.5-3) ...
update-alternatives: using /usr/bin/figlet-figlet to provide /usr/bin/figlet (figlet) in
 auto mode
update-alternatives: warning: skip creation of /usr/share/man/man6/figlet.6.gz because a
ssociated file /usr/share/man/man6/figlet-figlet.6.gz (of link group figlet) doesn't exi
st
root@96ba186a3ada:/# apt-get install -y figlet
Reading package lists... Done
Building dependency tree
Reading state information... Done
figlet is already the newest version (2.2.5-3).
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
root@96ba186a3ada:/# figlet "hello docker"
 _          _ _                 _                      _
| |__   ___| | | ___      __| | ___   ___| | _____ _ __
| '_ \ / _ \ | |/ _ \    / _` |/ _ \ / __| |/ / _ \ '__|
| | | |  __/ | | (_) |  | (_| | (_) | (__|   <  __/ |
|_| |_|\___|_|_|\___/   \__,_|\___/ \___|_|\_\___|_|
```

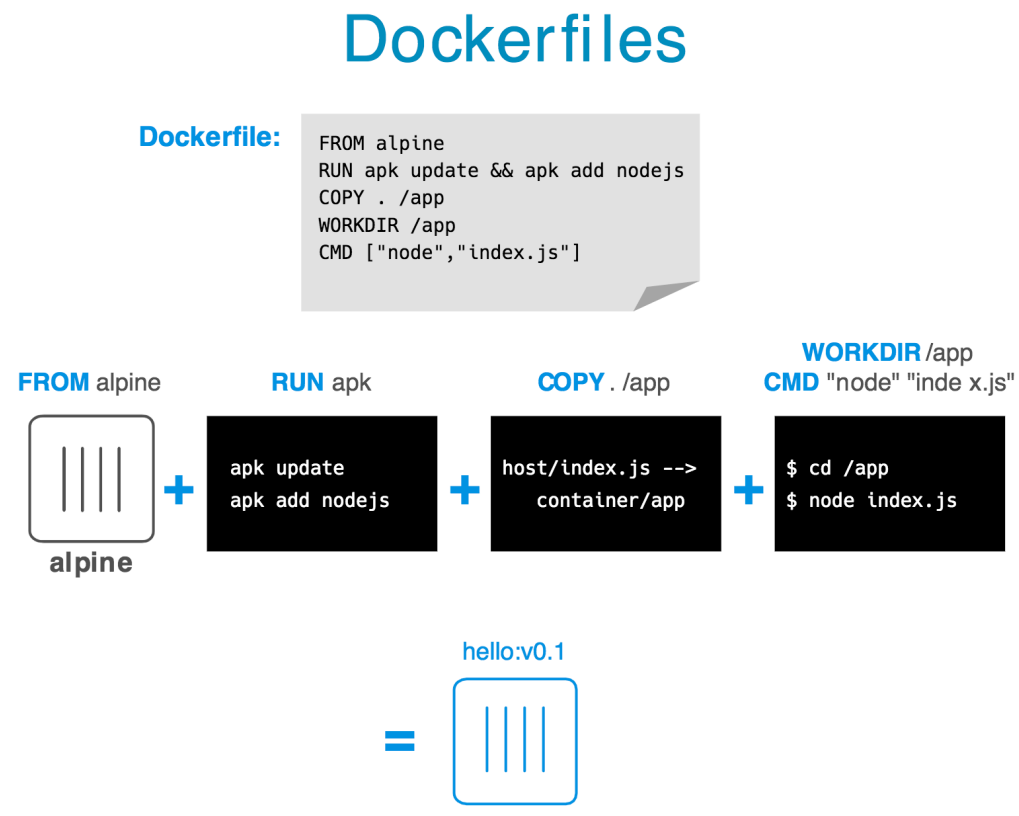
2.Commit the container

```
$ docker container commit 96ba186a3ada
sha256:902f5c857f2f55ec8fce4d3596479e2ef7a06d8d3636dfbf0710158d459dad30
[node1] (local) root@192.168.0.18 ~
$ docker image ls
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
<none>              <none>              902f5c857f2f        8 seconds ago       111MB
ubuntu              latest              ea4c82dcd15a        2 weeks ago         85.8MB
[node1] (local) root@192.168.0.18 ~
```

3.Rename the image

```
$ docker image tag 902f5c857f2f ourfiglet
[node1] (local) root@192.168.0.18 ~
$ docker image ls
REPOSITORY          TAG                 IMAGE ID            CREATED              SIZE
ourfiglet           latest              902f5c857f2f        About a minute ago   111MB
ubuntu              latest              ea4c82dcd15a        2 weeks ago          85.8MB
[node1] (local) root@192.168.0.18 ~
```

Image creation using a Dockerfile



```
Usage:  docker image build [OPTIONS] PATH | URL | -

Build an image from a Dockerfile
[node1] (local) root@192.168.0.43 ~
$ docker container run hello:v0.1
Unable to find image 'hello:v0.1' locally
docker: Error response from daemon: pull access denied for hello, repository does not
ist or may require 'docker login'.
See 'docker run --help'.
[node1] (local) root@192.168.0.43 ~
$ docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have
ocker ID, head over to https://hub.docker.com to create one.
Username: expolee0705
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
[node1] (local) root@192.168.0.43 ~
$ ls
Dockerfile  index.js
```

Summary:

In this Lab, I have learned the operation of the image in the containerand the image creation from dockerfile. Node.js also plays an important use in creating the image in the container.