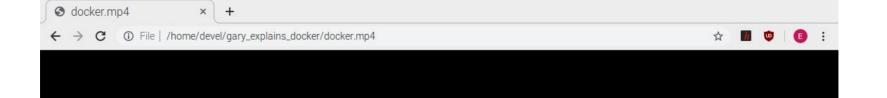
Introduction to Docker

Using a Raspberry Pi 4



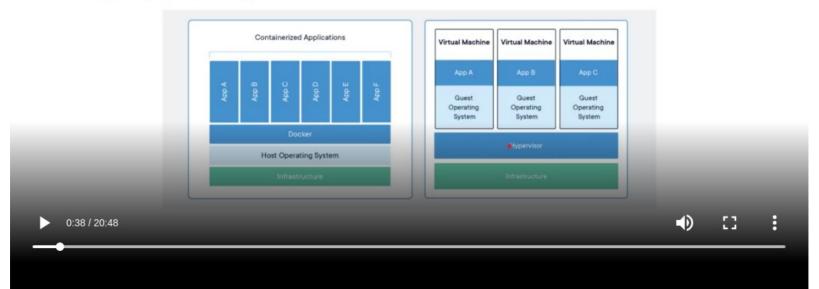


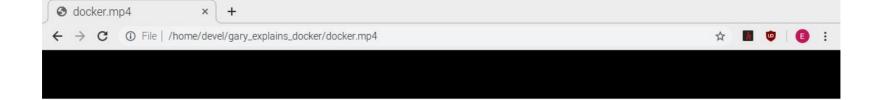




Container

- Abstraction of user environment that packages code and dependencies together.
- Not a virtual machine



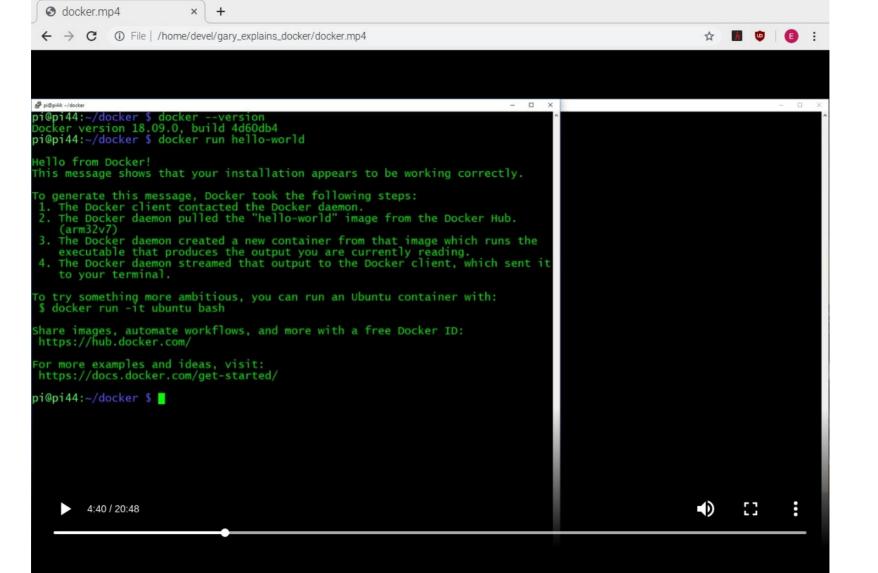


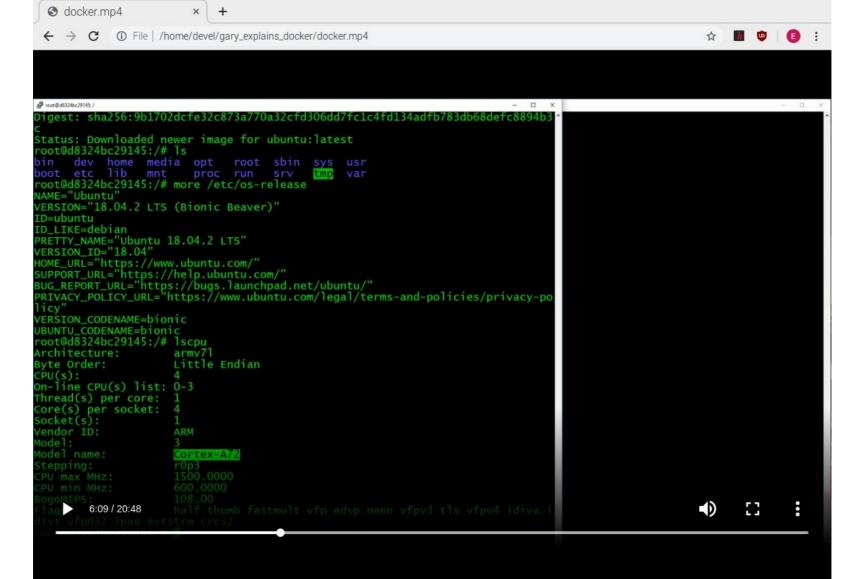
Obligatory picture of a container

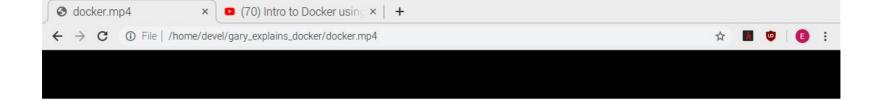


Install Docker

```
$ curl -fsSL get.docker.com -o get-docker.sh && sh get-docker.sh
Until Docker officially supports Buster then:
$ curl -fsSL get.docker.com -o get-docker.sh
Edit get-docker.sh and replace these lines in do install()
debian | raspbian)
                  dist_version="$(sed 's/\/.*//' /etc/debian_version | sed 's/\..*//')"
                  case "$dist_version" in
                        9)
                              dist_version="stretch"
debian raspbian)
                  dist_version="$(sed 's/\/.*//' /etc/debian_version | sed 's/\..*//')"
                  case "$dist_version" in
                        10)
                              dist version="stretch"
  2:40 / 20:48
```

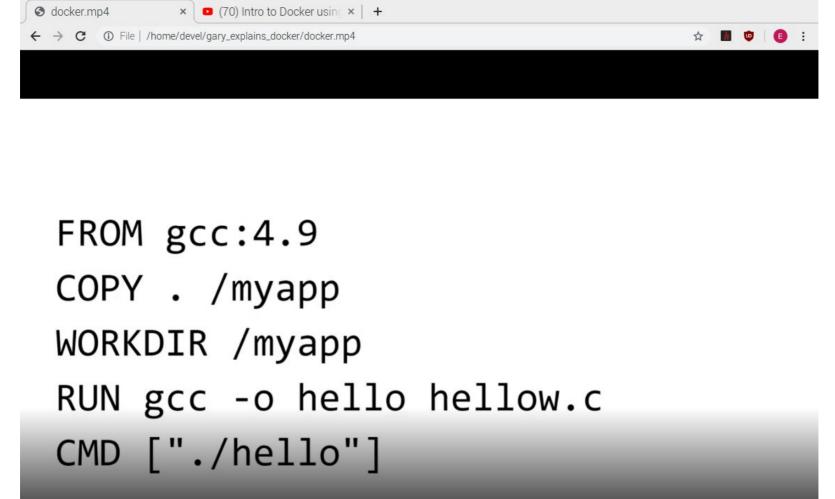






Dockerfile

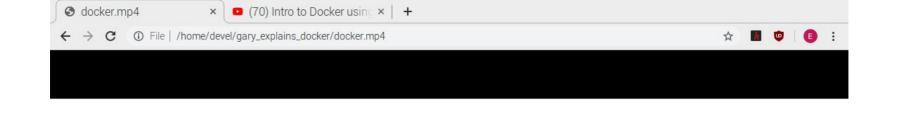
Dockerfile defines what goes on in the environment inside your container and allows you to build your own app into your container.



13:09 / 20:48





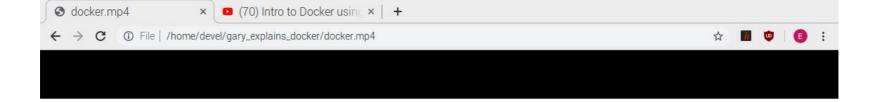


hellow.c

```
#include <stdio.h>
int main() {
    printf("Hello from within a Docker Container\n");
    return 0;
```

14:05 / 20:48





\$ docker build -t hello-world-gcc .



