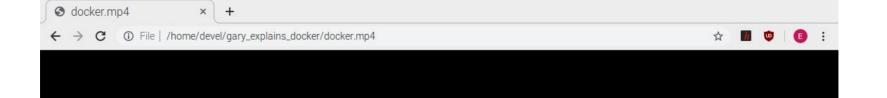
Introduction to Docker

Using a Raspberry Pi 4



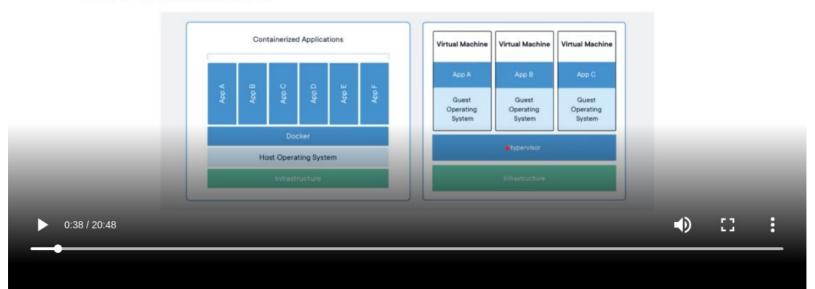


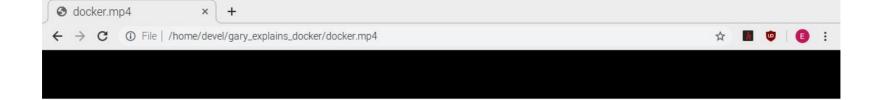




Container

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





Obligatory picture of a container



As of 01/12/20

 Docker is supported with buster and there is no need to edit the get-docker.sh

docker version

docker vers

·Client: Docker Engine - Community

Version: 19.03.5
 API version: 1.40
 Go version: go1.12.12
 Git commit: 633a0ea

· Built: Wed Nov 13 07:37:22 2019

OS/Arch: linux/armExperimental: false

·Server: Docker Engine - Community

Engine:

Version: 19.03.5

• API version: 1.40 (minimum version 1.12)

• Go version: go1.12.12 • Git commit: 633a0ea

Built: Wed Nov 13 07:31:17 2019

OS/Arch: linux/armExperimental: falsecontainerd:

• Version: 1.2.10

GitCommit: b34a5c8af56e510852c35414db4c1f4fa6172339

· runc:

Version: 1.0.0-rc8+dev

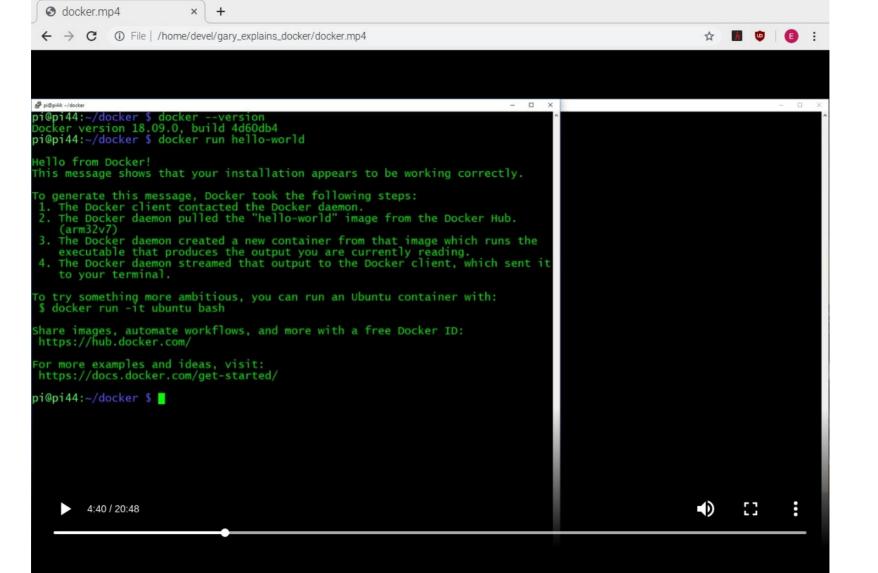
· GitCommit: 3e425f80a8c931f88e6d94a8c831b9d5aa481657

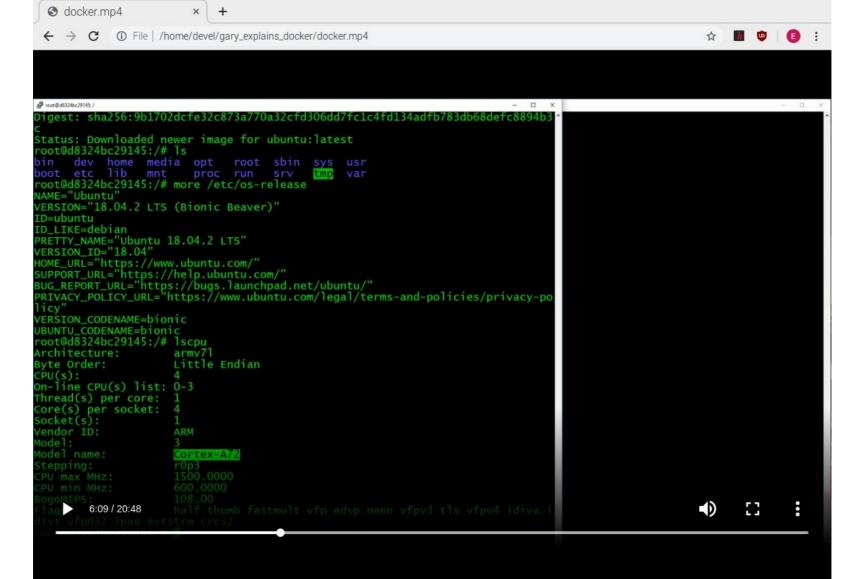
· docker-init:

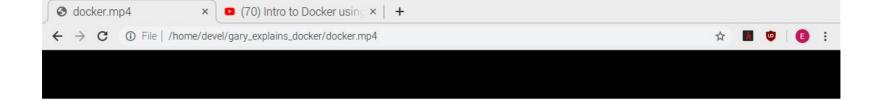
Version: 0.18.0 GitCommit: fec3683

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
```

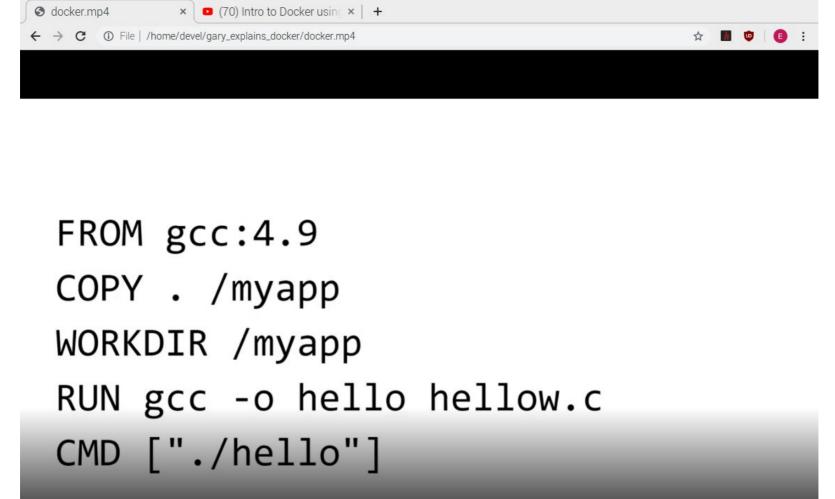






Dockerfile

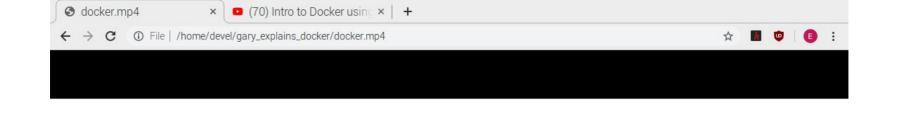
Dockerfile defines what goes on in the environment inside your container and allows you to build your own app into your container.



13:09 / 20:48





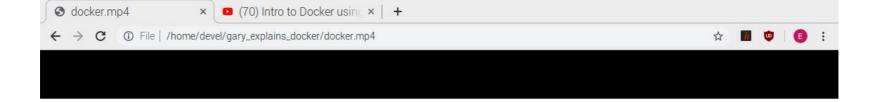


hellow.c

```
#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 .



