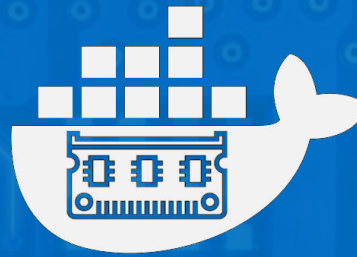


# VS Code Extension DOCKER AT THE EDGE

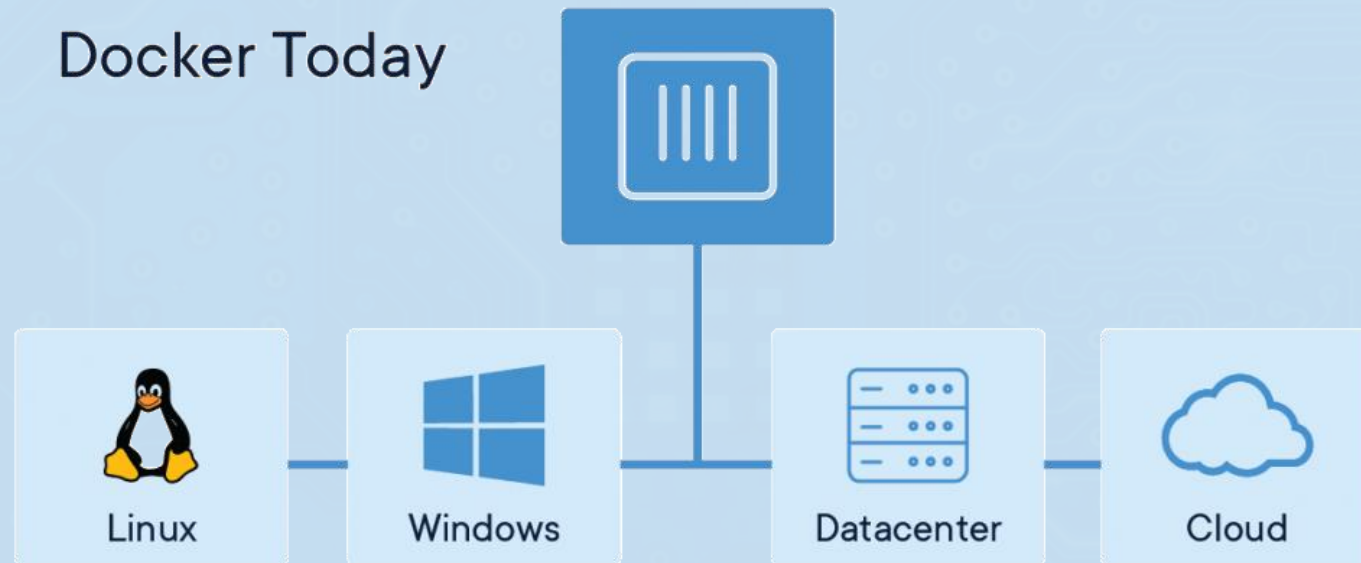


VS Code

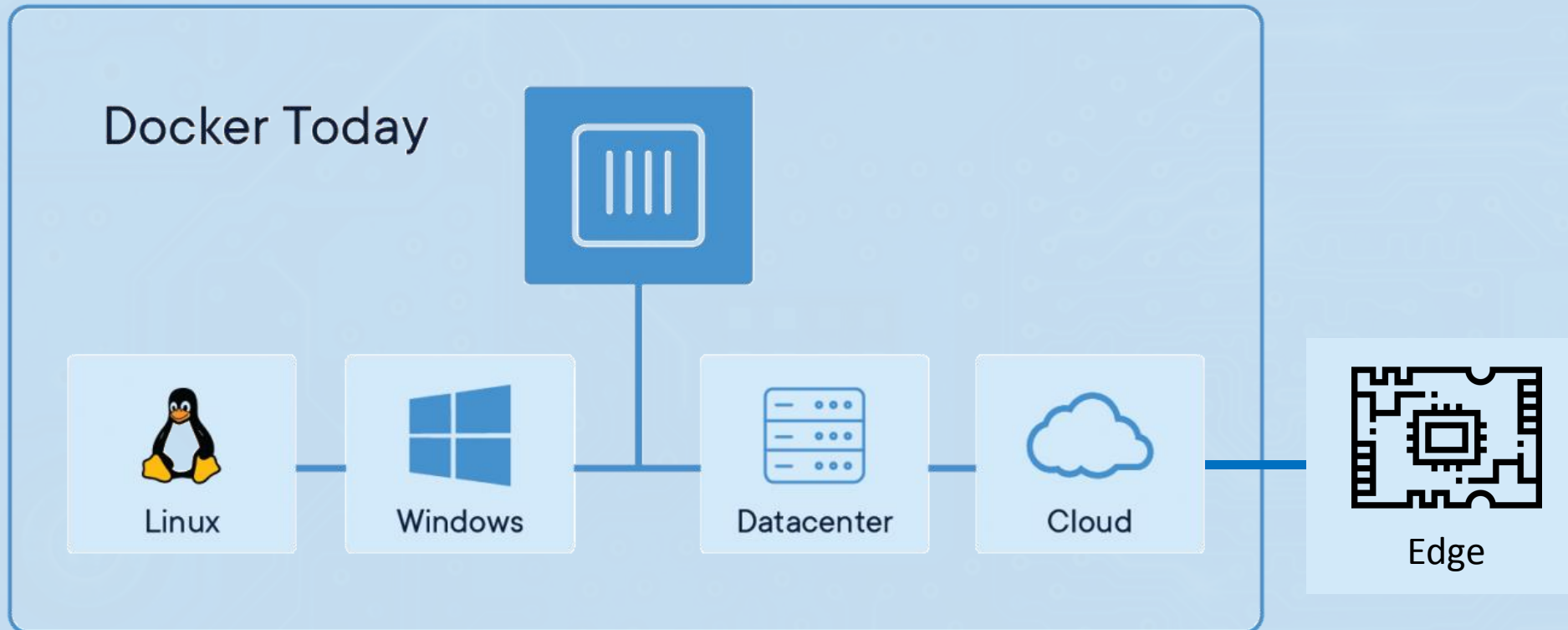
Matheus Castello  
[matheus@castello.eng.br](mailto:matheus@castello.eng.br)



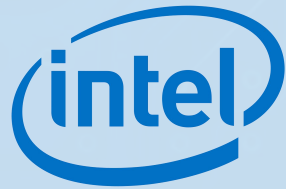
## Docker Today



## Docker Today



# Development x86



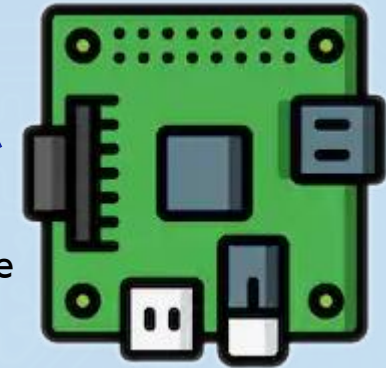
Dockerhub



Docker Image



# Target Device ARMv7



Docker Image

Docker container

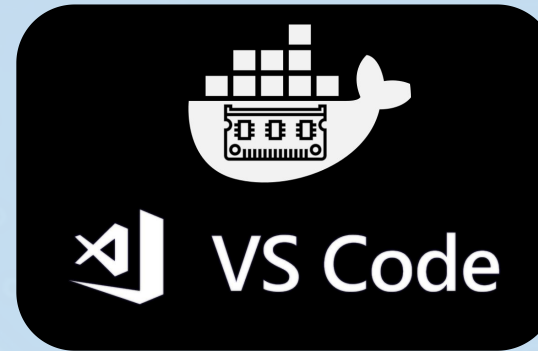
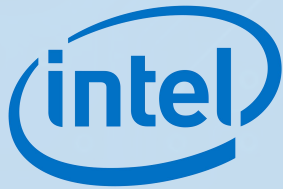
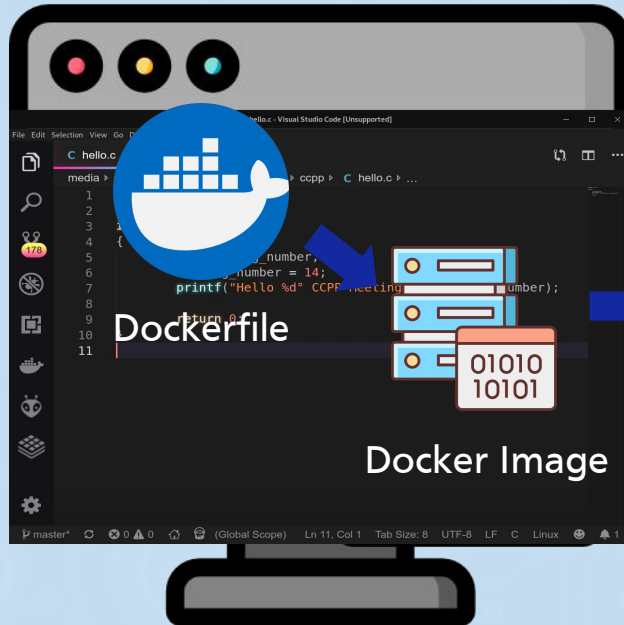


Torizon

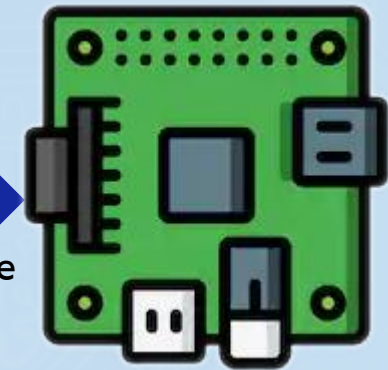




## Development x86



## Target Device ARMv7



Docker Image

Docker container



Torizon



[Extension Development Host] - Dockerfile - debconf - Visual Studio Code [Unsupported]

File Edit Selection View Go Debug Terminal Help

DOCKER EDGE EXPLORER: DEVICES

- Toradex AG 10.42.0.102
  - Colibri iMX6DL/S on Colibri Evaluation ...
    - Images
      - matheuscastello/gpiod\_bash 49MB
      - matheuscastello/libgpiod 49MB
      - matheuscastello/gpiod\_chardev 48MB
      - matheuscastello/gpiod 49MB
      - debian 48MB
    - Containers
      - debian-buster debian:buster-slim

Dockerfile

```
1 FROM matheuscastello/binutils-deb AS Build
2
3 # copy project source
4 COPY hello.c hello.c
5
6 # compile
7 RUN gcc -o hello hello.c
8
9 FROM arm32v7/debian:buster-slim AS Deploy
10
11 COPY --from=Build /hello /hello
12
13 CMD [ "./hello" ]
14
```

Ln 14, Col 1 Tab Size: 4 UTF-8 LF Dockerfile

Azure: matheus.castello@toradex.com

[Extension Development Host] - Dockerfile - debconf - Visual Studio Code [Unsupported]

File Edit Selection View Go Debug Terminal Help

DOCKER EDGE EXPLORER: DEVICES

- Toradex AG 10.42.0.102
  - Colibri iMX6DL/S on Colibri Evaluation ...
    - Images
      - matheuscastello 3
        - matheuscastello/libgpiod 49MB
        - matheuscastello/gpiod\_chardev 48MB
        - matheuscastello/gpiod 49MB
        - debian 48MB
      - Containers
        - debian-buster debian:buster-slim

Dockerfile x

Dockerfile > ...

```
1 FROM matheuscastello/binutils-deb AS Build
2
3 # copy project source
4 COPY hello.c hello.c
5
6 # compile
7 RUN gcc -o hello hello.c
8
9 FROM arm32v7/debian:buster-slim AS Deploy
10
11 COPY --from=Build /hello /hello
12
13 CMD [ "./hello" ]
14
```

Ln 14, Col 1 Tab Size: 4 UTF-8 LF Dockerfile

Azure: matheus.castello@toradex.com

[Extension Development Host] - Dockerfile - debconf - Visual Studio Code [Unsupported]

File Edit Selection View Go Debug Terminal Help

DOCKER EDGE EXPLORER: DEVICES

- Toradex AG 10.42.0.102
  - Colibri iMX6DL/S on Colibri Evaluation ...
    - Images
      - matheuscastello/gpiod\_bash 49MB
      - matheuscastello/libgpiod 49MB
      - matheuscastello/gpiod\_chardev 48MB
      - matheuscastello/gpiod 49MB
      - debian 48MB
    - Containers
      - debian-buster debian:buster-slim

Dockerfile

```
1 FROM matheuscastello/binutils-deb AS Build
2
3 # copy project source
4 COPY hello.c hello.c
5
6 # compile
7 RUN gcc -o hello hello.c
8
```

OUTPUT ... Torizon Push

Step 5/6 : COPY --from=Build /hello /hello  
---> 4b7eb41c9f83

Step 6/6 : CMD [ "./hello" ]  
---> Running in 57e339a38a87

Removing intermediate container 57e339a38a87  
---> 43bcb21300ef

Su i Packing image ....  
Su  
\*\* \*\*\*\*  
\*\* i building Dockerfile ...

0 0 Azure: matheus.castello@toradex.com Ln 14, Col 1 Tab Size: 4 UTF-8 LF Dockerfile 2



[Extension Development Host] - Dockerfile - debconf - Visual Studio Code [Unsupported]

File Edit Selection View Go Debug Terminal Help

DOCKER EDGE EXPLORER: DEVICES

- Toradex AG 10.42.0.102
  - Colibri iMX6DL/S on Colibri Evaluation ...
    - Images
      - 192.168.106.66:5000/torizon/debco...
      - matheuscastello/gpiod\_bash 49MB
      - matheuscastello/libgpiod 49MB
      - matheuscastello/gpiod\_chardev 48MB
      - matheuscastello/gpiod 49MB
      - debian 48MB
    - Containers
      - debian-buster debian:buster-slim

Dockerfile

```
1 FROM matheuscastello/binutils-deb AS Build
2
3 # copy project source
4 COPY hello.c hello.c
5
6 # compile
7 RUN gcc -o hello hello.c
8
9 FROM arm32v7/debian:buster-slim AS Deploy
10
11 COPY --from=Build /hello /hello
12
13 CMD [ "./hello" ]
14
```

Image loaded 🤖

Azure: matheus.castello@toradex.com

Ln 14, Col 1 Tab Size: 4 UTF-8 LF Dockerfile

[Extension Development Host] - Dockerfile - debconf - Visual Studio Code [Unsupported]

File Edit Selection View Go Debug Terminal Help

DOCKER EDGE EXPLORER: DEVICES

- Toradex AG 10.42.0.102
  - Colibri iMX6DL/S on Colibri Evaluation ...
    - Images
      - 192.168.106.66:5000/torizon/debco...
        - Run
        - Run Xorg
        - Run Weston
        - Run args
        - Run command
        - Run docker.run
        - Delete image
      - matheuscastello/gpiod\_bash 49MB
      - matheuscastello/libgpiod 49MB
      - matheuscastello/gpiod\_chardev 48MB
      - matheuscastello/gpiod 49MB
      - debian 48MB
    - Containers
      - debian-buster debian:buster-slim

Dockerfile x

Dockerfile > ...

```
1 FROM matheuscastello/binutils-deb AS Build
2
3 # copy project source
4 COPY hello.c hello.c
5
6 # compile
7 RUN gcc -o hello hello.c
8
9 FROM arm32v7/debian:buster-slim AS Deploy
10
11 COPY --from=Build /hello /hello
12
13 CMD [ "./hello" ]
14
```

Ln 14, Col 1 Tab Size: 4 UTF-8 LF Dockerfile 3

Azure: matheus.castello@toradex.com



<https://github.com/microhobby/vscode-docker-edge>



THANK YOU



**MICRO  
HOBBY**