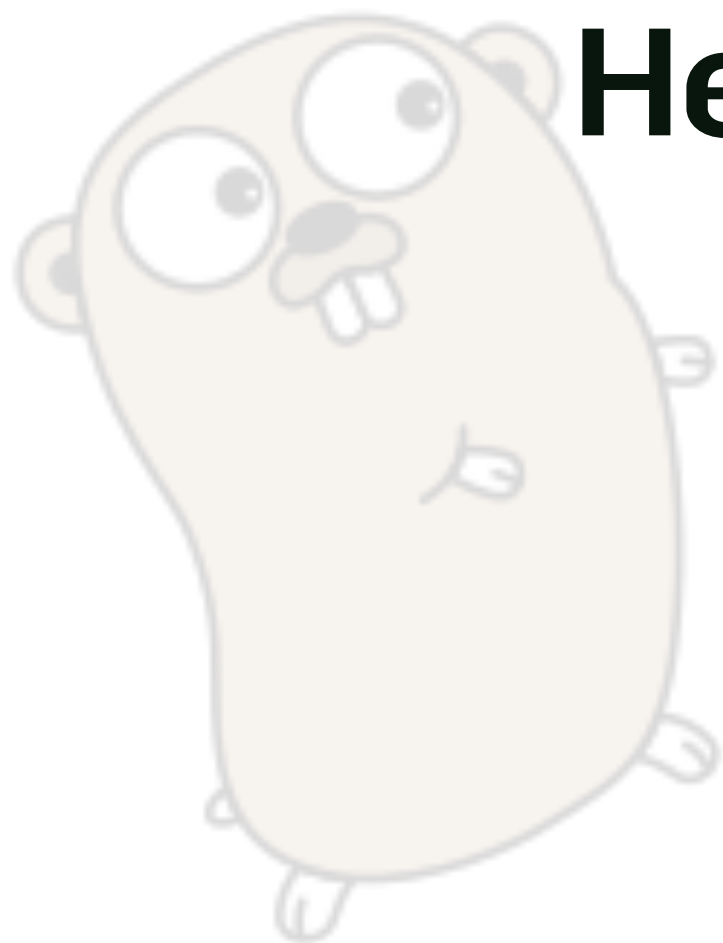


Hello, World Docker



GO

Setup Docker

Download:

Docker: <https://www.docker.com/get-docker>

Hello, World!

run docker:

```
>docker help
```

run hello-world docker:

```
>docker run hello-world
```

List container

run docker ps:

```
>docker ps  
>docker ps -a
```

CONTAINER	ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
3F8D88CB20	62	UBUNTU-GO2	/ROOT/HELLO	ABOUT AN HOUR AGO	EXITED 0 AN HOUR AGE		amazing_hamilton

Remove Container

run docker rm cid:

```
>docker rm 3f8d88cb20  
>docker rm amazing_hamilton
```

remove after exit:

```
>docker run --it --rm ubuntu bash
```

Interactive mode

run docker run -it image command :

```
>docker run -it ubuntu /bin/bash  
>uname -a  
>cat /etc/lsb-release
```

open new tab :

```
>docker ps
```

Build Image

create folder call hello

open editor[vscode]

```
>code helloworld.go
```

```
package main
```

```
import "fmt"
```

```
func main() {
```

```
    fmt.Println("Hello, World!")
```

```
}
```

Build Image

open terminal

```
>docker ps -a  
>GOOS=linux go build -o bin/app  
>docker cp ./bin/app [cid]:/root/  
>docker commit [cid] ubuntu-go  
>docker run --rm ubuntu-go /root/app
```


Build Image: Dockerfile

create new file call Dockerfile

```
FROM alpine:latest  
WORKDIR /root/  
COPY ./bin/app .  
CMD ["/root/app"]
```

run docker:

```
>docker build -t ubuntu-go2 .  
>docker run ubuntu-go2
```

Build Image: MultiStep Build

create new file call Dockerfile.mul

```
FROM golang:1.10.2-alpine
RUN mkdir /app
ADD . /app/
WORKDIR /app
RUN go build -o hello .
```

```
FROM alpine:latest
WORKDIR /root/
COPY --from=0 /app/hello .
CMD ["/root/hello"]
```

run docker:

```
>docker build -t ubuntu-go3 -f Dockerfile.mul .
>docker run ubuntu-go3
```