

Deploy

Golang Web Application

*to **Heroku***



I'm **Taichi Nakashima**
twitter ID is **@deeeet**

<http://deeeet.com/writing>



Marniti をつけた **Golang Web Application** を **Heroku** にデプロイする

Martini.

- Goの軽量Webフレームワーク
- **Sinatra**や**Express**の影響
- Middlewareによる拡張



sinatra

```
require 'sinatra'
```

```
get '/' do  
  "Hello!"  
end
```

Martini.

```
package main
```

```
import "github.com/go-martini/martini"
```

```
func main() {  
    m := martini.Classic()  
    m.Get("/", func() string {  
        return "Hello!"  
    })  
    m.Run()  
}
```

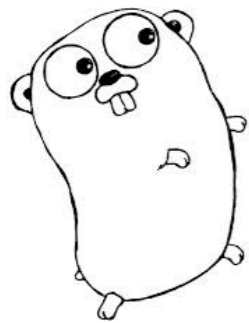
How?

- 依存パッケージの管理
- **Profile**の準備
- **Buildpack**の準備

Dependency



```
$ gem install bundler  
$ bundle install
```

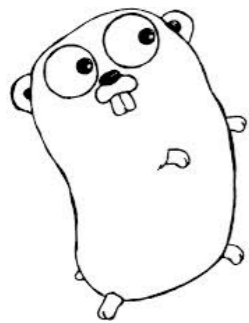


```
$ go get github.com/kr/godep  
$ godep save
```

Procfile



```
web: bundle exec rackup config.ru -p $PORT
```

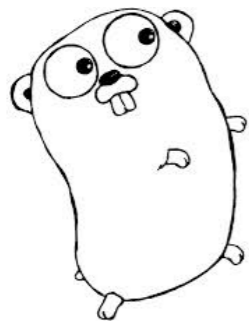


```
$ echo "web: $(basename `pwd`)" > Procfile
```

Buildpack

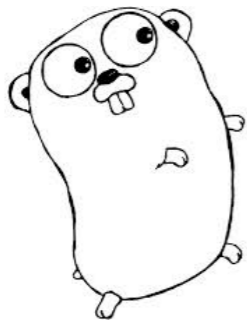


```
$ heroku create
```



```
$ heroku create -b https://github.com/kr/heroku-buildpack-go.git
```

Deploy



```
$ git push heroku master
```

Heroku on ***Docker***

Build a **Docker** container
for app using Heroku Buildpacks



- **Container**型仮想化ソフトウェア
- **VM**と比べてオーバヘッドが少なく高速に動作
- **OSX**でも軽量VMを立ち上げれば使える

Building

- CenturyLinkLabs作
- Buildpackを使った**Docker container**を作成
- ローカルに**Heroku**と同じ環境を気軽に作りたいを実現
- Rails, Node, Golang

Prepare on OSX

```
$ brew install docker boot2docker  
$ boot2docker init  
$ boot2docker up
```


Prepare

```
$ gem install building
```

Run building

```
$ cd your-application
```

```
$ building -p 3000 tcnksm/goapp
```

Run building

```
$ building -p 3000 tcnksm/goapp
create Dockerfile
building docker build -t tcnksm/goapp:latest .
Step 0 : FROM ctlc/buildstep:ubuntu13.10
----> a5432f93c775
Step 1 : ADD . /app
----> ef908258208c
Step 2 : RUN /build/builder
----> Running in afd1b5565e3c
      Go app detected
-----> Installing go1.2.1... done
-----> Running: godep go install -tags heroku ./...
-----> Discovering process types
      Procfile declares types -> web
----> 1d4265dcac7
running docker run -d -p 3000 -e "PORT=3000" tcnksm/goapp
```

Conclusion

- GolangのWeb ApplicationをHerokuにDeploy
- Heroku on Docker