



# Web Deployment

## Web Engineering

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# Deployment Option 1

grails war

upload war file to Java web server,  
e.g. Tomcat

# Deployment Option 2

gradlew stage

upload self-starting application to a Platform-as-a-Service (PaaS) provider,

e.g. Heroku

# Preparation

in /build.gradle

task copyDistToHerokuUp

adapt build/install/WebEngineering/

to build/install/<*yourProjectName*>/

# gradlew stage

assembles the app distribution

copies it ../heroku-up

(this is the app to deploy)

# Adaption

in ../heroku-up

add a file Procfile (*no extension*)

in that file, add the line (all on one line)

```
web: export JAVA_OPTS=-Dserver.port=$PORT; ./
bin/<yourProjectName>/
```

# Heroku



Sign up for free under [heroku.com](https://heroku.com)

Follow the installation procedure

Note the coordinates (git repo, URL)

# Prepare Deployment

```
cd ../heroku-up
```

```
heroku create // note the coordinates
```

```
git push heroku master
```

```
heroku ps:scale web=1
```

```
heroku open
```



# Push a New Version

```
gradlew stage
```

```
cd ../heroku-up
```

```
git commit -am "my newest version ..."
```

```
git push heroku master
```

# Validating via git

git status *// have I committed all files?*

git remote -vv *// what remotes do I have?*

# Optional: Custom Domain

<https://fhnw-webec.herokuapp.com>

# Web Atrocities

- Care for you data (download, backup)
- Data harvesting
- Data protection
- Forgetful data

# Web Atrocities

- Denial of Service attacks, Spamming
- Proper Password handling, encryption
- Logging, Monitoring
- Localization  
formats, timezones, character encoding