

 무료 전자 책

배우기

heroku

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---

1:

Heroku is a PaaS (Platform-as-a-Service) . (Heroku) 2007 ([Salesforce](#)) .

Heroku , .

Heroku . Heroku .

## Examples

Heroku Heroku Toolbelt . .

---

Heroku [Heroku Toolbelt](#) .

---

brew heroku .

```
brew install heroku
```

---

/

:

```
wget -O- https://toolbelt.heroku.com/install-ubuntu.sh | sh
```

Heroku apt , Heroku , Heroku Toolbelt Ruby .

bash .

## Heroku Toolbelt

---

```
heroku create your-app-name
```

---

```
git push heroku master
```

---

```
heroku open your-app-name
```

---

# Heroku

```
heroku commands
```

```
heroku help
```

```
heroku help <command>
```

## Heroku

heroku create Heroku . Heroku , , .

Heroku . Heroku .

Heroku .

```
heroku create [app_name]
```

heroku create Heroku .

Heroku Amazon . Heroku us . .

```
heroku create [app_name] --region eu
```

us , us eu () .

: <https://riptutorial.com/ko/heroku/topic/959/-->

---

## 2: Heroku node.js Hello World

```
heroku login
```

```
heroku create heroku create your_name
```

```
git clone https://github.com/zoutepopcorn/herokuworld
cd herokuworld
```

```
https://your_name.herokuapp.com/
```

:

```
heroku local web
```

```
: localhost : 5000
```

```
node.js ? package.json
```

```
"scripts": {
  "start": "node index.js"
},
"engines": {
  "node": "7.6.0"
}
```

```
index.js
```

```
process.env.PORT
```

```
: 5000. Heroku URL 80 .
```

## Examples

### Heroku node.js

```
index.js
```

```
var http = require("http");

http.createServer(function(request, response) {
  response.writeHead(200, {"Content-Type": "text/plain"});
  response.write("Heroku world!");
  response.end();
}).listen(process.env.PORT);
```

```
package.json
```



```
{
  "name": "node-example",
  "version": "1.0.0",
  "description": "Hello world Heroku",
  "scripts": {
    "start": "node index.js"
  },
  "keywords": [
    "example",
    "heroku"
  ],
  "author": "Johan",
  "license": "MIT",
  "engines": {
    "node": "7.6.0"
  }
}
```

Heroku node.js Hello World : <https://riptutorial.com/ko/heroku/topic/9897/heroku-node-js-hello-world>

---

## 3: Heroku

Heroku HTTP 503 . . HTTP H R . L .

- H10 -
- H11 -
- H12 -
- H13 -
- H14 - dynos
- H15 -
- H16 - herokuapp.com
- H17 - HTTP
- H18 - .
- H19 -
- H20 -
- H21 - .
- H22 - .
- H23 - .
- H24 -
- H25 - HTTP
- H26 -
- H27 - .
- H28 -
- H80 -
- H81 -
- H82 - dyno .
- H99 -
- R10 -
- R12 -
- R13 -
- R14 -
- R15 - .
- R16 -
- R17 -
- R99 -
- L10 -
- L11 -
- L12 -
- L13 -
- L14 -

## Examples

H10 -

dyno dyno .

```
2010-10-06T21:51:04-07:00 heroku[web.1]: State changed from down to starting
2010-10-06T21:51:07-07:00 app[web.1]: Starting process with command: `bundle exec rails server -p 22020`
2010-10-06T21:51:09-07:00 app[web.1]: >> Using rails adapter
2010-10-06T21:51:09-07:00 app[web.1]: Missing the Rails 2.3.5 gem. Please `gem install -v=2.3.5 rails`, update your RAILS_GEM_VERSION setting in config/environment.rb for the Rails version you do have installed, or comment out RAILS_GEM_VERSION to use the latest version installed.
2010-10-06T21:51:10-07:00 heroku[web.1]: Process exited
2010-10-06T21:51:12-07:00 heroku[router]: at=error code=H10 desc="App crashed" method=GET path="/" host=myapp.herokuapp.com fwd=17.17.17.17 dyno= connect= service= status=503 bytes=
```

## H11 -

HTTP . . H11 . dynos , .

```
2010-10-06T21:51:07-07:00 heroku[router]: at=error code=H11 desc="Backlog too deep" method=GET path="/" host=myapp.herokuapp.com fwd=17.17.17.17 dyno= connect= service= status=503 bytes=
```

dynos (: ) . .

## H12 -

HTTP 30 . , Rails 37 . HTTP Rails 503 Rails .

```
2010-10-06T21:51:07-07:00 app[web.2]: Processing PostController#list (for 75.36.147.245 at 2010-10-06 21:51:07) [GET]
2010-10-06T21:51:08-07:00 app[web.2]: Rendering template within layouts/application
2010-10-06T21:51:19-07:00 app[web.2]: Rendering post/list
2010-10-06T21:51:37-07:00 heroku[router]: at=error code=H12 desc="Request timeout" method=GET path="/" host=myapp.herokuapp.com fwd=17.17.17.17 dyno=web.1 connect=6ms service=30001ms status=503 bytes=0
2010-10-06T21:51:42-07:00 app[web.2]: Completed in 37000ms (View: 27, DB: 21) | 200 OK [http://myapp.herokuapp.com/]
```

30 dyno .

## H13 -

dyno .

```
2010-10-06T21:51:37-07:00 heroku[router]: at=error code=H13 desc="Connection closed without response" method=GET path="/" host=myapp.herokuapp.com fwd=17.17.17.17 dyno=web.1 connect=3030ms service=9767ms status=503 bytes=0
```

30 . Unicorn H13 .

## H14 - dynos

Odynos . dynos 1 dynos .

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

heroku ps dynos .

```
2010-10-06T21:51:37-07:00 heroku[router]: at=error code=H14 desc="No web processes running"
method=GET path="/" host=myapp.herokuapp.com fwd=17.17.17.17 dyno= connect= service=
status=503 bytes=
```

**H15 -**

dyno 55 . Content-Length 50 .

```
2010-10-06T21:51:37-07:00 heroku[router]: at=error code=H15 desc="Idle connection" method=GET
path="/" host=myapp.herokuapp.com fwd=17.17.17.17 dyno=web.1 connect=1ms service=55449ms
status=503 bytes=18
```

Heroku : <https://riptutorial.com/ko/heroku/topic/8321/heroku-->

---

## 4: Heroku

Heroku

### Examples

Heroku

#### Heroku Scheduler

```
heroku addons:create scheduler:standard
```

Heroku : <https://riptutorial.com/ko/heroku/topic/8906/heroku-->

# 5: Heroku

## Examples

### Heroku Postgres

Heroku :

#### 1. SHARED\_DATABASE\_URL .

```
heroku pg:reset DATABASE
```

#### 2. .

```
heroku run rake db:migrate
```

#### 3. .

```
heroku run rake db:seed
```

#### 2 3 .

```
heroku run rake db:setup
```

### heroku

heroku :

#### 1. .

```
heroku pg:pull DATABASE_URL change_to_your_data_base_name --app change_to_your_app_name
```

#### 2. db .

```
GRANT ALL PRIVILEGES ON DATABASE change_to_your_data_base_name to change_to_your_user; ALTER DATABASE change_to_your_data_base_name OWNER TO change_to_your_user;
```

#### 3. :

```
SELECT 'ALTER TABLE ' || schemaname || '.' || tablename || ' OWNER TO change_to_your_user;' FROM pg_tables WHERE NOT schemaname IN ('pg_catalog', 'information_schema') ORDER BY schemaname, tablename;
```

Heroku : <https://riptutorial.com/ko/heroku/topic/6239/heroku->

# 6:

## Examples

Heroku [buildpacks](#) , Node.js, Clojure, , , Gradle, Grails , , PHP .

Heroku CLI .

```
1. heroku create <app_name> --buildpack <buildpack_name>
```

2. ,

```
heroku buildpacks:set <buildpack_name>
```

URL . PHP buildpack ,

```
heroku buildpacks:set heroku/php
```

```
heroku buildpacks:set https://elements.heroku.com/buildpacks/heroku/heroku-buildpack-php
```

buildpack . add :

```
heroku buildpacks:add --index 1 <buildpack_name>
```

, --index buildpack .

```
heroku buildpacks:set heroku/php  
heroku buildpacks:add --index 1 heroku/nodejs
```

buildpack .

```
heroku/nodejs  
heroku/php
```

: Heroku (80). . procfile web: node server.js 80 PHP . . .

: <https://riptutorial.com/ko/heroku/topic/6126/>

---

## 7:

- `$ heroku`
- `$ heroku logs -n 200`
- `$ heroku logs --tail`
- `$ heroku --dyno`
- `$ heroku -`
- `$ heroku - --dyno worker`
- `$ heroku - --tail`

## Examples

Heroku .

- `- . , . (: - --source app)`
- `- Heroku (: , dyno , ) (: - --source heroku)`
- **API** - , . (: - --source heroku --dyno api)

```
timestamp source[dyno]: message
```

- **Timestamp** - dyno . RFC5424 .
- `- dynos ( dynos , , cron ) , app . Heroku (HTTP , dyno ) heroku .`
- **Dyno** - dyno . , # 3 worker.3 , Heroku HTTP router .
- **Message** - . 10000 dynos 10000 . .

`heroku logs` .

```
$ heroku logs
```

`logs 100` . `--num (-n)` ( 1,500 ) .

```
$ heroku logs -n 200
```

---

`tail -f` . `--tail (-t)` .

```
$ heroku logs --tail
```

**Ctrl + C** .



, **dyno** --dyno --source (-s) --dyno (-d) .

```
$ heroku logs --dyno router
2012-02-07T09:43:06.123456+00:00 heroku[router]: at=info method=GET path="/stylesheets/dev-center/library.css" host=devcenter.heroku.com fwd="204.204.204.204" dyno=web.5 connect=1ms service=18ms status=200 bytes=13
2012-02-07T09:43:06.123456+00:00 heroku[router]: at=info method=GET path="/articles/bundler" host=devcenter.heroku.com fwd="204.204.204.204" dyno=web.6 connect=1ms service=18ms status=200 bytes=20375

$ heroku logs --source app
2012-02-07T09:45:47.123456+00:00 app[web.1]: Rendered shared/_search.html.erb (1.0ms)
2012-02-07T09:45:47.123456+00:00 app[web.1]: Completed 200 OK in 83ms (Views: 48.7ms | ActiveRecord: 32.2ms)
2012-02-07T09:45:47.123456+00:00 app[worker.1]: [Worker(host:465cf64e-61c8-46d3-b480-362bfd4ecff9 pid:1)] 1 jobs processed at 23.0330 j/s, 0 failed ...
2012-02-07T09:46:01.123456+00:00 app[web.6]: Started GET "/articles/buildpacks" for 4.1.81.209 at 2012-02-07 09:46:01 +0000

$ heroku logs --source app --dyno worker
2012-02-07T09:47:59.123456+00:00 app[worker.1]: [Worker(host:260cf64e-61c8-46d3-b480-362bfd4ecff9 pid:1)] Article#record_view_without_delay completed after 0.0221
2012-02-07T09:47:59.123456+00:00 app[worker.1]: [Worker(host:260cf64e-61c8-46d3-b480-362bfd4ecff9 pid:1)] 5 jobs processed at 31.6842 j/s, 0 failed ...
```

--tail .

```
$ heroku logs --source app --tail
```

: <https://riptutorial.com/ko/heroku/topic/8327/>

---

## 8:

Heroku Toolbelt Heroku Command Line Interface (CLI) / Heroku .

- \$ heroku --version
- \$ heroku login
- \$ heroku create

## Examples

---

## OS X

OS X .

---

## Windows

Windows installer [32](#) [64](#) .

---

## /

apt CLI .

```
$ sudo add-apt-repository "deb https://cli-assets.heroku.com/branches/stable/apt ./"
$ curl -L https://cli-assets.heroku.com/apt/release.key | sudo apt-key add -
$ sudo apt-get update
$ sudo apt-get install heroku
```

---

tarball PATH . :

```
$ echo replace OS/ARCH with values as noted below
$ wget https://cli-assets.heroku.com/branches/stable/heroku-OS-ARCH.tar.gz
$ tar -xvzf heroku-OS-ARCH /usr/local/lib/heroku
$ ln -s /usr/local/lib/heroku/bin/heroku /usr/local/bin/heroku
```

---

CLI heroku --version .

```
$ heroku --version
heroku-cli/5.6.0-010a227 (darwin-amd64) go1.7.4
```

Heroku . API ~/.netrc .

## Heroku CLI    git Heroku    .

```
$ heroku login
Enter your Heroku credentials.
Email: adam@example.com
Password (typing will be hidden):
Authentication successful.
```

## Heroku .

```
$ cd ~/myapp
$ heroku create
Creating app... done, ⬢ sleepy-meadow-81798
https://sleepy-meadow-81798.herokuapp.com/ | https://git.heroku.com/sleepy-meadow-81798.git
```

: [https://riptutorial.com/ko/heroku/topic/8324/-](https://riptutorial.com/ko/heroku/topic/8324/)

---

## 9:

- git push heroku master

## Examples

### Git

---

## git

Heroku Git . , myapp .

```
$ cd myapp
$ git init
Initialized empty Git repository in .git/
$ git add .
$ git commit -m "my first commit"
Created initial commit 5df2d09: my first commit
 44 files changed, 8393 insertions(+), 0 deletions(-)
 create mode 100644 README
 create mode 100644 Procfile
 create mode 100644 app/controllers/source_file
...
```

.git . ; Heroku .

---

## Heroku

```
$ heroku create
Creating falling-wind-1624... done, stack is cedar-14
http://falling-wind-1624.herokuapp.com/ | https://git.heroku.com/falling-wind-1624.git
Git remote heroku added
```

. heroku git : remote git url .

```
$ heroku git:remote -a falling-wind-1624
Git remote heroku added.
```

---

```
$ git push heroku master
Initializing repository, done.
updating 'refs/heads/master'
...
```

master .

```
$ git push heroku yourbranch:master
```

: <https://riptutorial.com/ko/heroku/topic/8325/>

---

# 10:

- "dependencies": {...}

## Examples

bower

1. package.json `bower` .

```
"dependencies": {  
  "bower": "^1.7.9"  
}
```

2. scripts `postinstall`

```
"scripts": {  
  "postinstall": "./node_modules/bower/bin/bower install"  
}
```

3. `bower_components` `.bowerrc` . `bower_components` .

```
{  
  "directory" : "app/bower_components"  
}
```

Heroku `npm install bower install` .

: <https://riptutorial.com/ko/heroku/topic/6665/>

# 11:

- heroku : <install | create | promote> ...

Heroku . "" , "" , "" "" .

## Examples

### CLI

Heroku Toolbelt [Pipelines Plugin](#) .

```
heroku plugins:install heroku-pipelines
```

, . --stage STAGE CLI . NAME .

```
heroku pipelines:create -a example
```

.

```
heroku pipelines:promote -r staging
```

( ) .

```
heroku pipelines:promote -r staging --to my-production-app1,my-production-app2
```

.

```
heroku help pipelines
```

: <https://riptutorial.com/ko/heroku/topic/2389/>-

---

# 12:

## Examples

### Heroku

1. : Heroku 1500 . 1500 , .
2. : HTTP 30 55 . 1MB .
3. **Dynos** : Dyno . 30 . 1000 550 . 100 dynos 10 . dyno dynos .
4. : 32KB .
5. : , , Heroku Git repos 75 . 1GB . 300MB 15 .
6. : 10 100,000 .
7. **Heroku Postgres** : 4 15 .
8. **API** : Heroku API 2400 .
9. : 500 25 .
10. : 100 . 5 .

: <https://riptutorial.com/ko/heroku/topic/6190/-->



S. No		Contributors
1		<a href="#">Community</a> , <a href="#">rdegges</a> , <a href="#">thejonanshow</a>
2	Heroku node.js Hello World	<a href="#">Johan Hoeksma</a>
3	Heroku	<a href="#">Sender</a>
4	Heroku	<a href="#">jophab</a>
5	Heroku	<a href="#">Denis Savchuk</a> , <a href="#">Hardik Kanjariya ツ</a> , <a href="#">Thamilan</a>
6		<a href="#">Thamilan</a>
7		<a href="#">Sender</a>
8		<a href="#">Sender</a>
9		<a href="#">Sender</a>
10		<a href="#">Thamilan</a>
11		<a href="#">Thamilan</a>
12		<a href="#">autoboxer</a> , <a href="#">Thamilan</a>