

RUBY ON RAILS Level UP

Pracadomowa



Deploy aplikacji

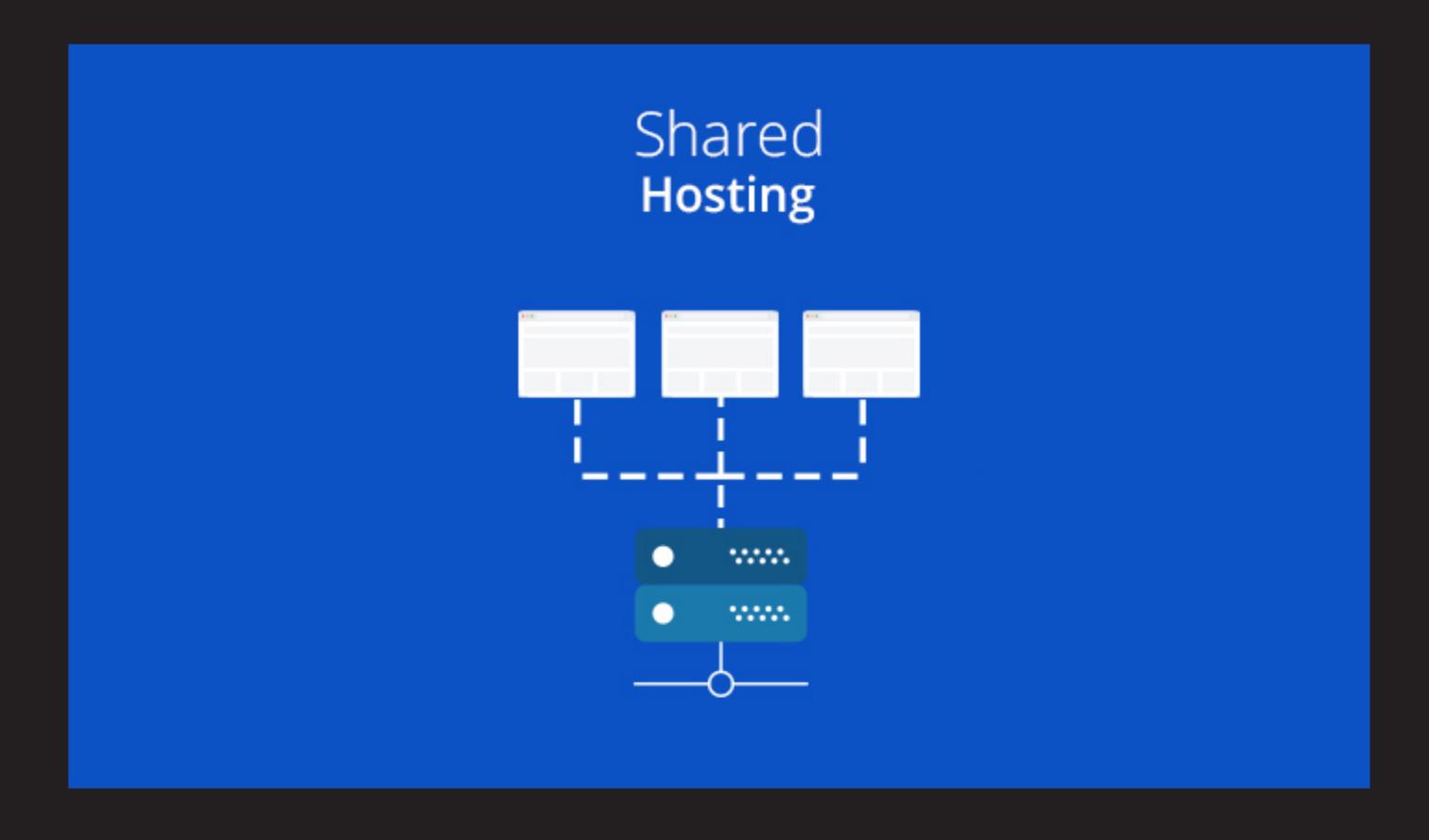
RUBY ON RAILS Level UP

Gdzie żyją aplikacje?

- Shared hosting
- Dedicated server
- VPS
- Cloud
- PaaS

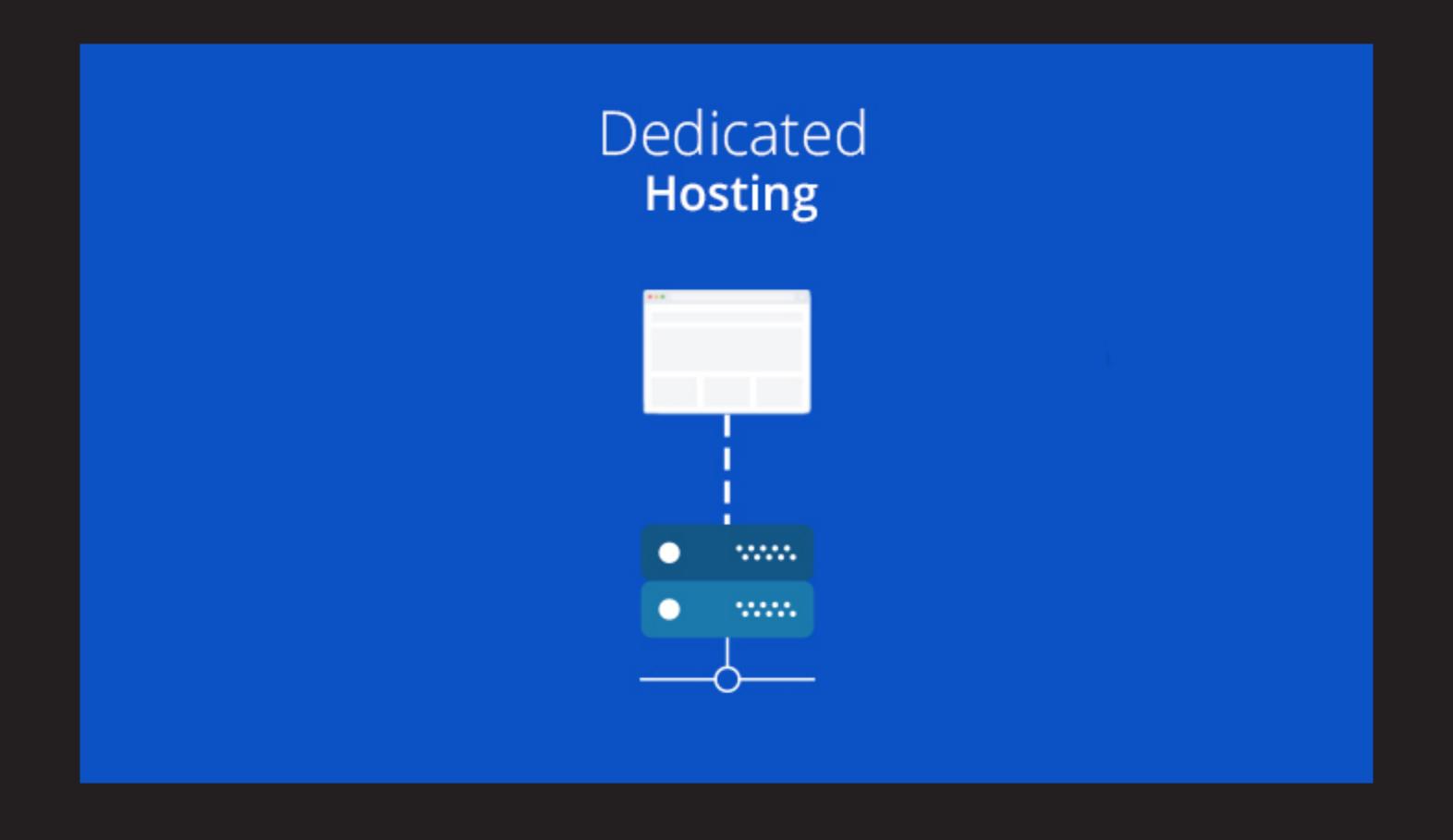


Shared hosting



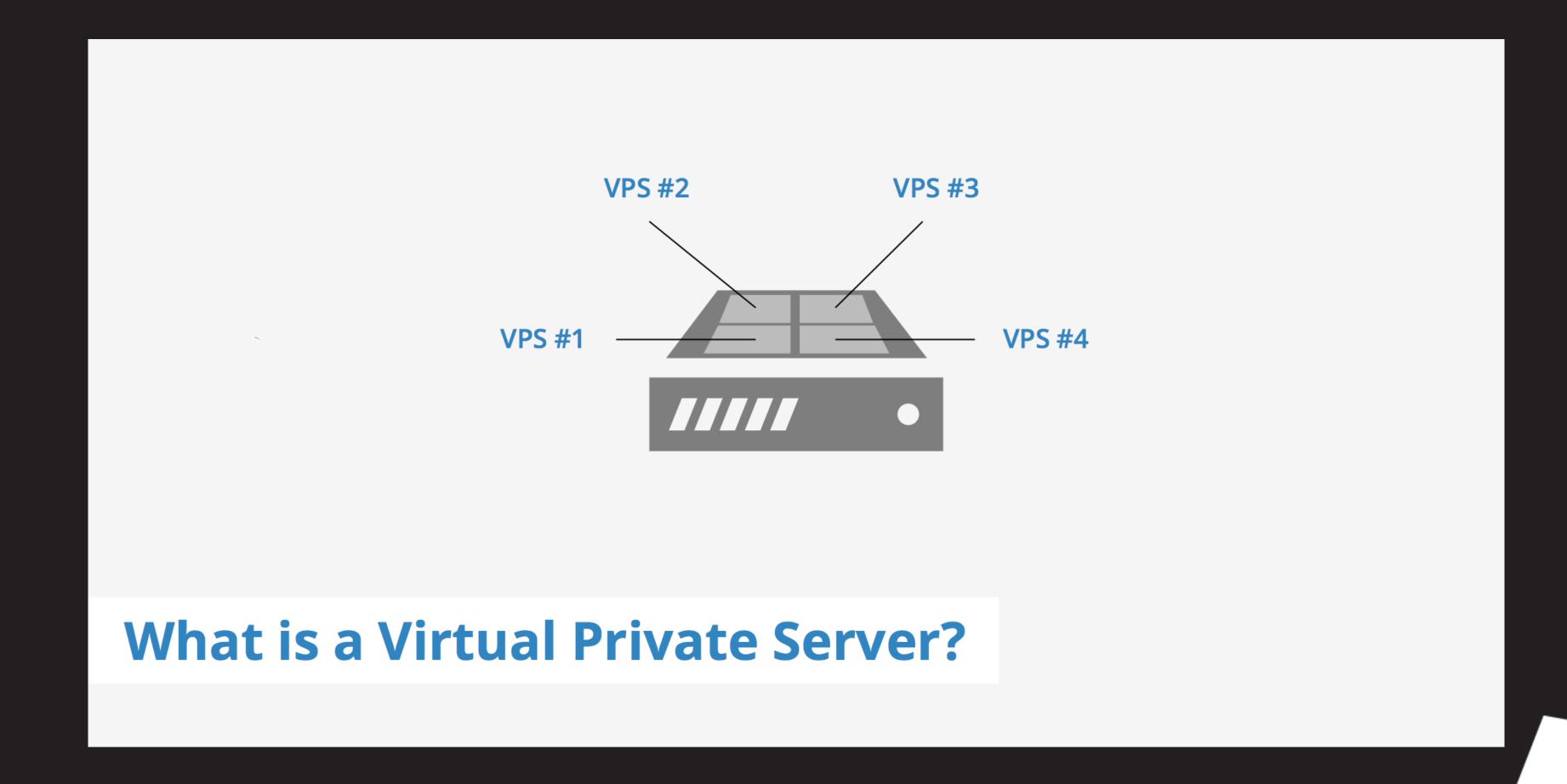


Dedicated server



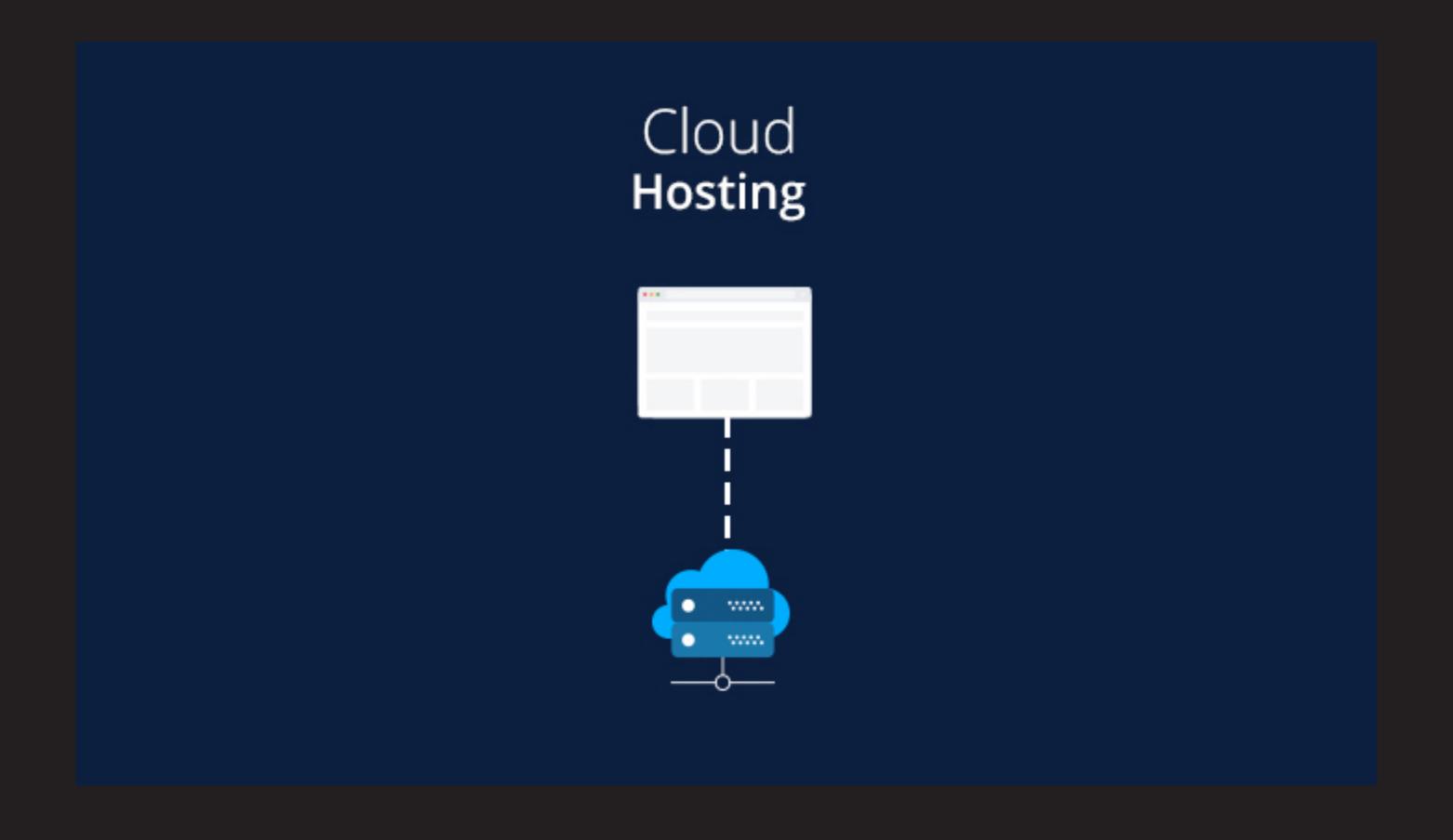


VPS



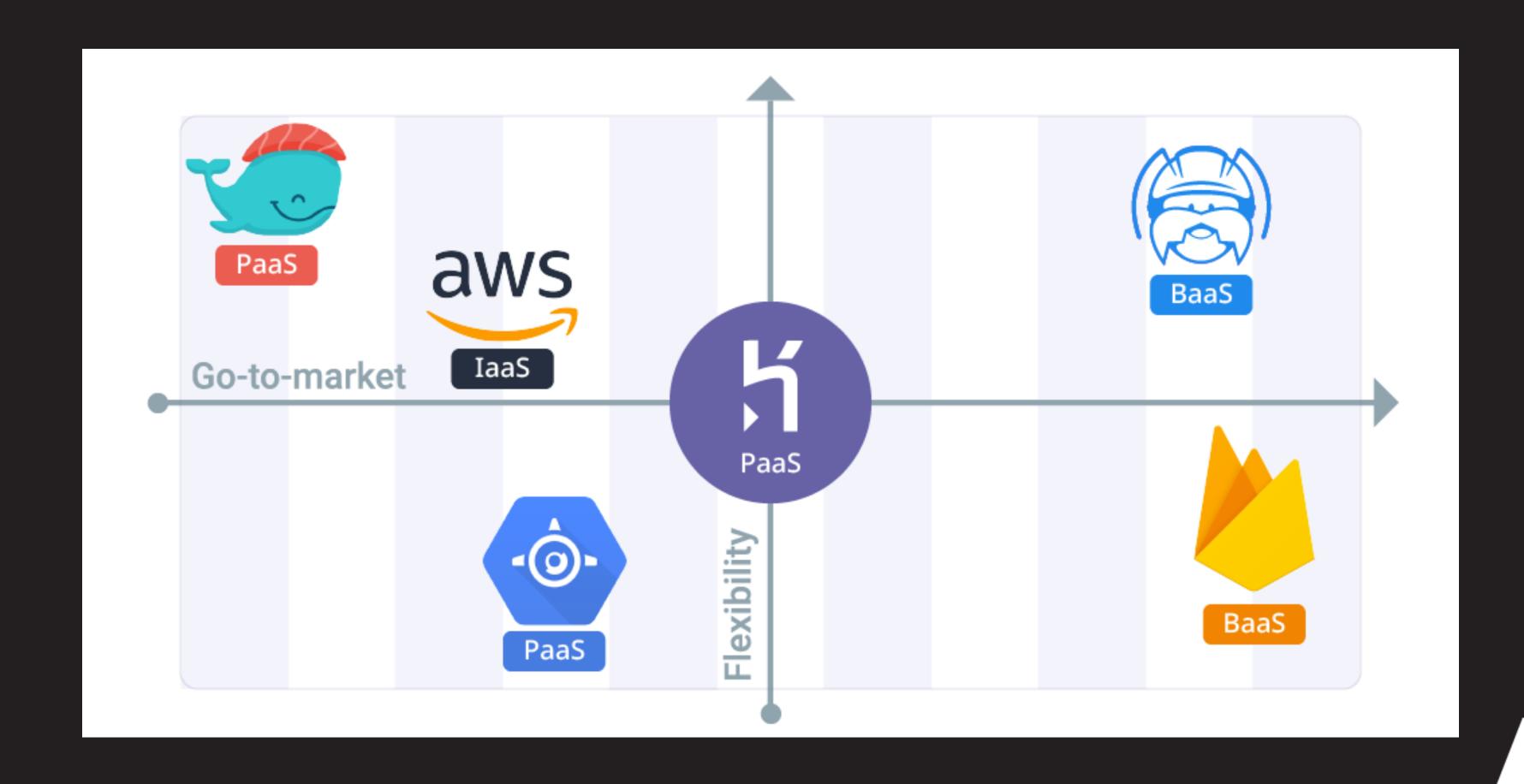


Cloud

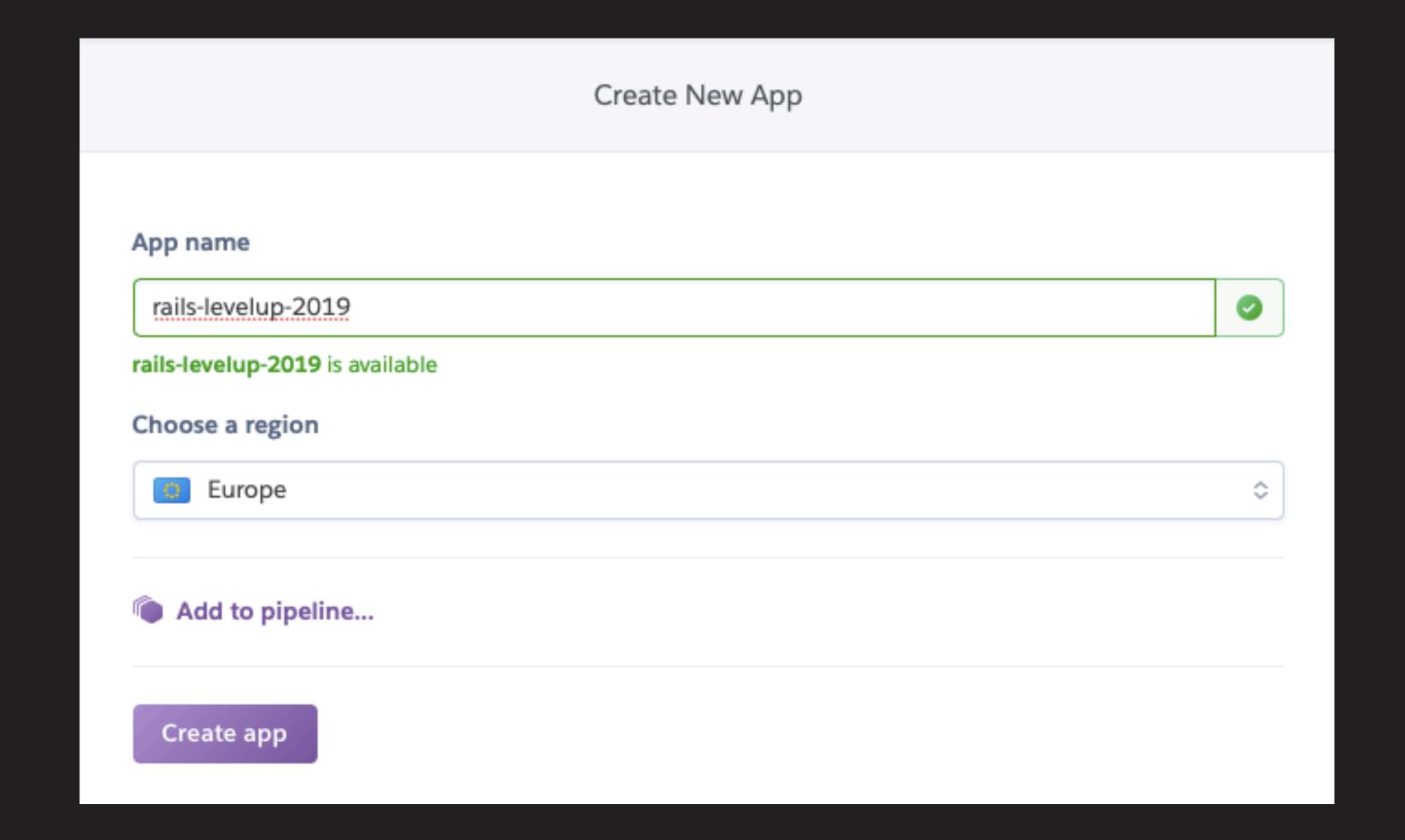




PaaS - Platform as a Service



















Deploy using Heroku Git

Use git in the command line or a GUI tool to deploy this app.

Install the Heroku CLI

Download and install the Heroku CLI.

If you haven't already, log in to your Heroku account and follow the prompts to create a new SSH public key.

\$ heroku login





Use git in the command li

Install the Heroku CLI

Download and install the

If you haven't already, log

\$ heroku login



e a new SSH public key.

Logged in

You can close this page and return to your CLI. It should now be logged in.



Existing Git repository

For existing repositories, simply add the heroku remote

```
$ heroku git:remote -a rails-levelup-2019
```

Deploy your application

Commit your code to the repository and deploy it to Heroku using Git.

```
$ git add .
$ git commit -am "make it better"
$ git push heroku master
```



```
git push heroku master
        Enumerating objects: 111, done.
        Counting objects: 100% (111/111), done.
       Delta compression using up to 4 threads
        Compressing objects: 100% (96/96), done.
        Writing objects: 100% (111/111), 1.13 MiB | 832.00 KiB/s, done.
        Total 111 (delta 2), reused 0 (delta 0)
        remote: Compressing source files... done.
        remote: Building source:
        remote:
        remote: ----> Ruby app detected
        remote: ----> Compiling Ruby/Rails
        . . .
        remote: ----> Launching...
                      Released v6
        remote:
                      https://rails-levelup-2019.herokuapp.com/ deployed to Heroku
        remote:
        remote:
RUBY ON RAMESnote: Verifying deploy... done.
Level UP
```

```
heroku logs
2019-04-17T10:18:55.137885+00:00 app[web.1]: F, [2019-04-17T10:18:55.137835 #4]
FATAL -- : [f597394e-b2de-474f-a579-847c845a5e4e] ActiveRecord::StatementInvalid
(PG::UndefinedTable: ERROR: relation "clans" does not exist
2019-04-17T10:18:55.137887+00:00 app[web.1]: LINE 1: SELECT "clans".* FROM "clans"
2019-04-17T10:18:55.137888+00:00 app[web.1]: ^
2019-04-17T10:18:55.137889+00:00 app[web.1]: : SELECT "clans".* FROM "clans"):
```



```
heroku logs
2019-04-17T10:18:55.137885+00:00 app[web.1]: F, [2019-04-17T10:18:55.137835 #4]
FATAL -- : [f597394e-b2de-474f-a579-847c845a5e4e] ActiveRecord::StatementInvalid
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2019-04-17T10:18:55.137889+00:00 app[web.1]: : SELECT "clans".* FROM "clans"):
    heroku run rake db:migrate
...
Running rake db:migrate on ◆ rails-levelup-2019... up, run.4573 (Free)
...
```



```
curl -s https://rails-levelup-2019.herokuapp.com/clans | jq -c
"data": [
    "id": "1",
    "type": "clans",
    "attributes": {
      "name": "The very first clan"
    "relationships": {
      "warriors": {
        "data": [
            "id": "1",
            "type": "warriors-samurais"
          . . .
```

RUBY ON RAILS Level UP

Zarządzanie sekretami



Gdzie schować sekrety?

- Zmienne środowiskowe
- credentials.yml.enc
- config gem



Zmienne środowiskowe

```
heroku config
=== rails-levelup-2019 Config Vars
DATABASE_URL:
                 postgres://...
LANG:
                        en_US.UTF-8
                        production
RACK_ENV:
RAILS_ENV:
             production
RAILS_LOG_TO_STDOUT: enabled
RAILS_SERVE_STATIC_FILES: enabled
SECRET_KEY_BASE:
                         . . .
heroku config:set SENTRY_DSN=https://...
Setting SENTRY DSN and restarting • rails—levelup—2019... done, v8
SENTRY_DSN: https://...
```



Zmienne środowiskowe

```
heroku run rails console
Running rails console on ♠ rails-levelup-2019... up, run.4476 (Free)
Loading production environment (Rails 5.2.2.1)
irb(main):001:0> ENV.fetch('SENTRY_DSN')
=> "https://..."
```



credentials.yml.enc

```
rails credentials:edit
...
sentry:
    dsn: https://...
> Rails.application.credentials.sentry[:dsn]
=> "https://..."
```



credentials.yml.enc

```
rails credentials:edit

roduction:
    sentry:
        dsn: https://...
staging:
    sentry:
        dsn: https://...
```



config gem

gem 'config'

```
rails g config:install
create config/initializers/config.rb
create config/settings.yml
create config/settings.local.yml
create config/settings
create config/settings/development.yml
create config/settings/production.yml
create config/settings/test.yml
append .gitignore
```



config gem

```
config/settings.yml
config/settings/#{environment}.yml
config/environments/#{environment}.yml
```

```
config/settings.local.yml
config/settings/#{environment}.local.yml
config/environments/#{environment}.local.yml
```



IntegracjazAPI

RUBY ON RAILS Level UP

Połączenie z Internetem

- Net::HTTP
- httparty



Nasze pierwsze zapytanie

```
response = HTTParty.get('https://rails-levelup-2019.herokuapp.com/clans')
puts response.code, response.body
# 200
# {"data":[{"id":"1","type":"clans","attributes":{"name":"The very first clan"},"relationships":
{"warriors":{"data":[{"id":"1","type":"warriors-samurais"},{"id":"2","type":"warriors-samurais"},
{"id":"4","type":"warriors-hussars"}]}}},{"id":"3","type":"warriors-samurais"},
{"id":"5","type":"warriors-hussars"}]}}}]
```



Nasze pierwsze zapytanie

```
response = HTTParty.get('https://rails-levelup-2019.herokuapp.com/clans')
pp JSON.parse(response.body)
# {"data"=>
     [{"id"=>"1",}
      "type"=>"clans",
       "attributes"=>{"name"=>"The very first clan"},
       "relationships"=>
         {"warriors"=>
            {"data"=>
               [{"id"=>"1", "type"=>"warriors-samurais"},
                {"id"=>"2", "type"=>"warriors-samurais"},
                {"id"=>"4", "type"=>"warriors-hussars"}]}}},
# . . .
   response parsed_response
# {"data"=>
```



```
class ShogunApi
  include HTTParty
  base_uri 'rails-levelup-2019.herokuapp.com'

def clans
    self.class.get('/clans').parsed_response
  end
end

api = ShogunApi.new
pp api.clans
```



```
class ShogunApi
  include HTTParty
  base_uri 'rails-levelup-2019.herokuapp.com'
  parser ->(body, _format) { JSON.parse(body)['data'] }
  def clans
    self.class.get('/clans').parsed_response
  end
end
api = ShogunApi.new
pp api.clans.first
# {"id"=>"1",
# "type"=>"clans",
# "attributes"=>{"name"=>"The very first clan"},
# "relationships"=>
    {"warriors"=>
      {"data"=>
# ...
```



```
class ShogunApi
              include HTTParty
              base_uri 'rails-levelup-2019.herokuapp.com'
              parser ->(body, _format) { JSON.parse(body)['data'] }
              def clans
                self.class.get('/clans').parsed_response
              end
              def clan(id)
                self.class.get("/clans/#{id}").parsed_response
              end
              def create_clan(name:)
                self.class.post('/clans', body: { name: name }).parsed_response/
              end
RUBY ON RAILS
Level UP
```

```
api = ShogunApi.new

pp api.create_clan(name: 'very good clan, please join')

# {"id"=>"3",

# "type"=>"clans",

# "attributes"=>{"name"=>"very good clan, please join"},

# "relationships"=>{"warriors"=>{"data"=>[]}}}
```



Obsługa błędów API

```
api = ShogunApi.new

pp api.clan('whatever')
# nil

pp api.create_clan(name: nil)
# nil
```



Obstuga błędów API

```
class ShogunApi
              . . .
             def create_clan(name:)
               handle_response(self.class.post('/clans', body: { name: name }))
             end
              private
             def handle_response(response)
               case response code
               when 200..299
                  response parsed_response
               when 404
                  raise RecordNotFound, response body
               when 422
                  raise RecordInvalid, response.body
               else
                  raise SomethingIsReallyWrong, response.body
RUBY ON RAILS
               end
Level UP end
```

end

Obsługa błędów API

```
api = ShogunApi.new

pp api.clan('whatever')
# RecordNotFound ({"error":"Couldn't find Clan with 'id'=whatever"})

pp api.create_clan(name: nil)
# RecordInvalid ({"name":["can't be blank"]})
```



Obsługa błędów API

```
module HTTParty
  class Error < StandardError; end</pre>
  class UnsupportedFormat < Error; end</pre>
  class UnsupportedURIScheme < Error; end</pre>
  class ResponseError < Error; attr_reader :response; end</pre>
  class RedirectionTooDeep < ResponseError; end</pre>
  class DuplicateLocationHeader < ResponseError; end</pre>
end
module Net
  class ProtocolError < StandardError; end</pre>
  class ProtoFatalError < ProtocolError; end</pre>
  class HTTPError < ProtocolError; end</pre>
  class HTTPFatalError < ProtoFatalError; end</pre>
  . . .
end
```



Jak to testować?

- WebMock
- VCR



WebMock

```
require 'webmock/rspec'

WebMock.disable_net_connect!

stub_request(:post, 'rails-levelup-2019.herokuapp.com/clans')
    .with(body: { name: 'name from test' })
    .to_return(body: { id: 1, type: 'clans', ... })
```



Jak to testować?

```
require 'vcr'

VCR.configure do |config|
   config.cassette_library_dir = 'fixtures/vcr_cassettes'
   config.hook_into :webmock
end

VCR.use_cassette('shogunate') do
   response = HTTParty.get('https://rails-levelup-2019.herokuapp.com/clans')
   expect(response.body)...
end
```



Thanks!