Alternate Web Servers

Capstone: Photo Tourist Web Application

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In this lecture, we will discuss...

- ♦ Rack Web Servers
- ♦ Puma

Rails (Rack) Web Servers

- ♦ Rack
 - Modular Web Server interface
 - Used by many Ruby-based frameworks, including Rails
- ♦ Rack-based Web Servers
 - WEBrick
 - Phusion Passenger
 - Thin
 - Unicorn
 - Puma
 - recommended by Heroku
 - your choice for development

Jamess-MacBook-Pro:capstone_demoapp jim\$ vi Gemfile

```
1 #
 2 source 'https://rubygems.org'
 4 gem 'rails', '4.2.6'
 5 gem 'rails-api', '~>0.4', '>=0.4.0'
 6 gem 'rack-cors', '~>0.4', '>=0.4.0', :require => 'rack/cors'
 8 gem 'jbuilder', '~> 2.0', '>=2.6.0'
 9
10 group :development do
11 gem 'spring', '~>2.0', '>=2.0.0'
12 end
13
14 group :development, :test do
15
     gem 'tzinfo-data', :platforms=>[:mingw, :mswin, :x64_mingw, :jruby]
16
     gem 'httparty', '~>0.14', '>=0.14.0'
17
18
     gem 'rspec-rails', '~> 3.5', '>=3.5.2'
19 end
20
21 gem 'puma', '~>3.6', '>=3.6.0' #, :platforms=>:ruby
22 gem 'pg', '~>0.19', '>=0.19.0'
23 gem 'mongoid', '~>5.1', '>=5.1.5'
```

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Jamess-MacBook-Pro:capstone_demoapp jim\$ vi Gemfile Jamess-MacBook-Pro:capstone_demoapp jim\$ bun Jamess-MacBook-Pro:capstone_demoapp jim\$ vi config/puma.rb

```
#1 (C not . M) X not . 203
 1 workers Integer(ENV['WEB_CONCURRENCY'] | | 2)
 2 threads_count = Integer(ENV['RAILS_MAX_THREADS'] | 1 | 5)
 3 threads threads_count, threads_count
 5 preload_app!
 7 rackup
               DefaultRackup
 8 port
               ENV['PORT']
                               11 3000
 9 environment ENV['RACK_ENV'] || 'development'
10
11 on_worker_boot do
    # Worker specific setup for Rails 4.1+
    # See: https://devcenter.heroku.com/articles/deploying-rails-applications-with-the-puma-web-server#on-work
   er-boot
     ActiveRecord::Base.establish_connection
15 end
```

```
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 2 threads_count = Integer(ENV['RAILS_MAX_THREADS'] | 11 5)
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   er-boot
    ActiveRecord::Base.establish_connection
15 end
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ rails s
=> Booting Puma
=> Rails 4.2.6 application starting in development on http://localhost:3000
=> Run `rails server -h` for more startup options
=> Ctrl-C to shutdown server
[1935] Puma starting in cluster mode...
[1935] * Version 3.6.0 (ruby 2.2.3-p173), codename: Sleepy Sunday Serenity
[1935] * Min threads: 5, max threads: 5
[1935] * Environment: development
[1935] * Process workers: 2
[1935] * Preloading application
[1935] * Listening on tcp://localhost:3000
[1935] Use Ctrl-C to stop
[1935] - Worker 0 (pid: 1948) booted, phase: 0
[1935] - Worker 1 (pid: 1949) booted, phase: 0
```

Command Prompt - bundle

```
Z:\proj\fullstack\capstone_demoapp>bundle
Fetching gem metadata from https://rubygems.org/.....
Fetching version metadata from https://rubygems.org/..
Fetching dependency metadata from https://rubygems.org/.
Using rake 11.3.0
Using i18n 0.7.0
Using json 1.8.3
Using minitest 5.9.1
Using thread safe 0.3.5
Using builder 3.2.2
Using erubis 2.7.0
Using mini portile2 2.1.0
Using rack 1.6.5
Using mime-types-data 3.2016.0521
Using arel 6.0.3
Using bson 4.1.1
Using concurrent-ruby 1.0.2
Using diff-lcs 1.2.5
Using multi xml 0.5.5
Using multi_json 1.12.1
Using origin 2.2.2
Using pg 0.19.0
Installing puma 3.6.0 with native extensions
```

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```
Command Prompt
Using mongo 2.3.1
Using sprockets 3.7.0
Using httparty 0.14.0
Using rspec-core 3.5.4
Using rspec-expectations 3.5.0
Using rspec-mocks 3.5.0
Using active support 4.2.6
Using tzinfo-data 1.2016.10
Using loofah 2.0.3
Using mail 2.6.4
Using rails-deprecated sanitizer 1.0.3
Using globalid 0.3.7
Using active model 4.2.6
Using jbuilder 2.6.0
Using spring 2.0.0
Using rails-html-sanitizer 1.0.3
Using rails-dom-testing 1.0.7
Using active job 4.2.6
Using activerecord 4.2.6
Using mongoid 5.1.5
Using actionview 4.2.6
Using actionpack 4.2.6
Using actionmailer 4.2.6
Using railties 4.2.6
Using sprockets-rails 3.2.0
Using rails-api 0.4.0
Using rspec-rails 3.5.2
Using rails 4.2.6
Bundle complete! 11 Gemfile dependencies, 55 gems now installed.
Use 'bundle show [gemname]' to see where a bundled gem is installed.
```

```
Select Command Prompt
Using loofah 2.0.3
Using mail 2.6.4
Using rails-deprecated sanitizer 1.0.3
Using globalid 0.3.7
Using active model 4.2.6
Using jbuilder 2.6.0
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=> Booting Puma
=> Rails 4.2.6 application starting in development on http://localhost:3000
=> Run `rails server -h` for more startup options
=> Ctrl-C to shutdown server
ERROR: worker mode not supported on JRuby or Windows
Exiting
```

[2019] - Worker 0 (pid: 2032) booted, phase: 0 [2019] - Worker 1 (pid: 2033) booted, phase: 0

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Jamess-MacBook-Pro:capstone_demoapp jim\$ vi Gemfile

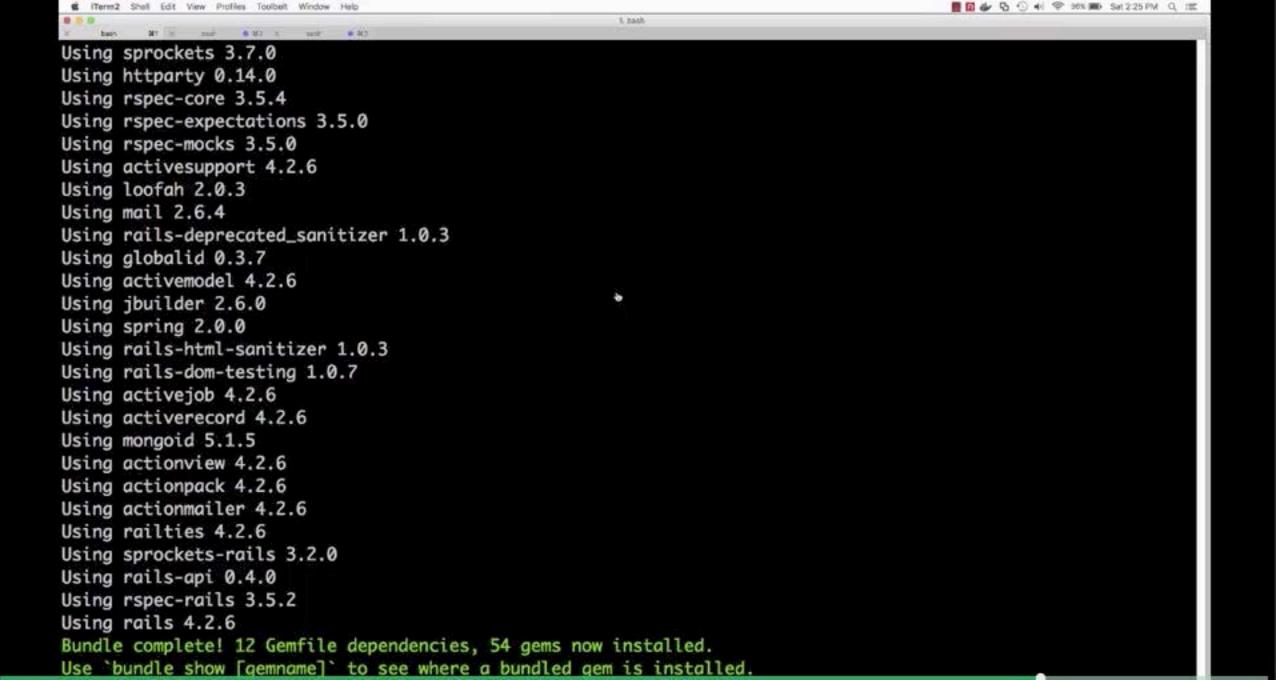
• 60 % seek • 800

```
6 ITerm2 Shell Edit View Profiles Toolbelt Window Help
 1 #
 2 source 'https://rubygems.org'
 4 gem 'rails', '4.2.6'
 5 gem 'rails-api', '~>0.4', '>=0.4.0'
 6 gem 'rack-cors', '~>0.4', '>=0.4.0', :require => 'rack/cors'
 8 gem 'jbuilder', '~> 2.0', '>=2.6.0'
10 group :development do
   gem 'spring', '~>2.0', '>=2.0.0'
12 end
13
14 group :development, :test do
15 gem 'webrick', '->1.3', '>=1.3.1', :platforms=>[:mingw, :mswin, :x64_mingw, :jruby]
16
     gem 'tzinfo-data', :platforms=>[:mingw, :mswin, :x64_mingw, :jruby]
17
     gem 'httparty', '~>0.14', '>=0.14.0'
18
19
     gem 'rspec-rails', '~> 3.5', '>=3.5.2'
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22 gem 'puma', '~>3.6', '>=3.6.0', :platforms=>:ruby
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20 end
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22 gem 'puma', '~>3.6', '>=3.6.0', :platforms=>:ruby
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Jamess-MacBook-Pro:capstone_demoapp jim\$ vi Gemfile
Jamess-MacBook-Pro:capstone_demoapp jim\$ bundle



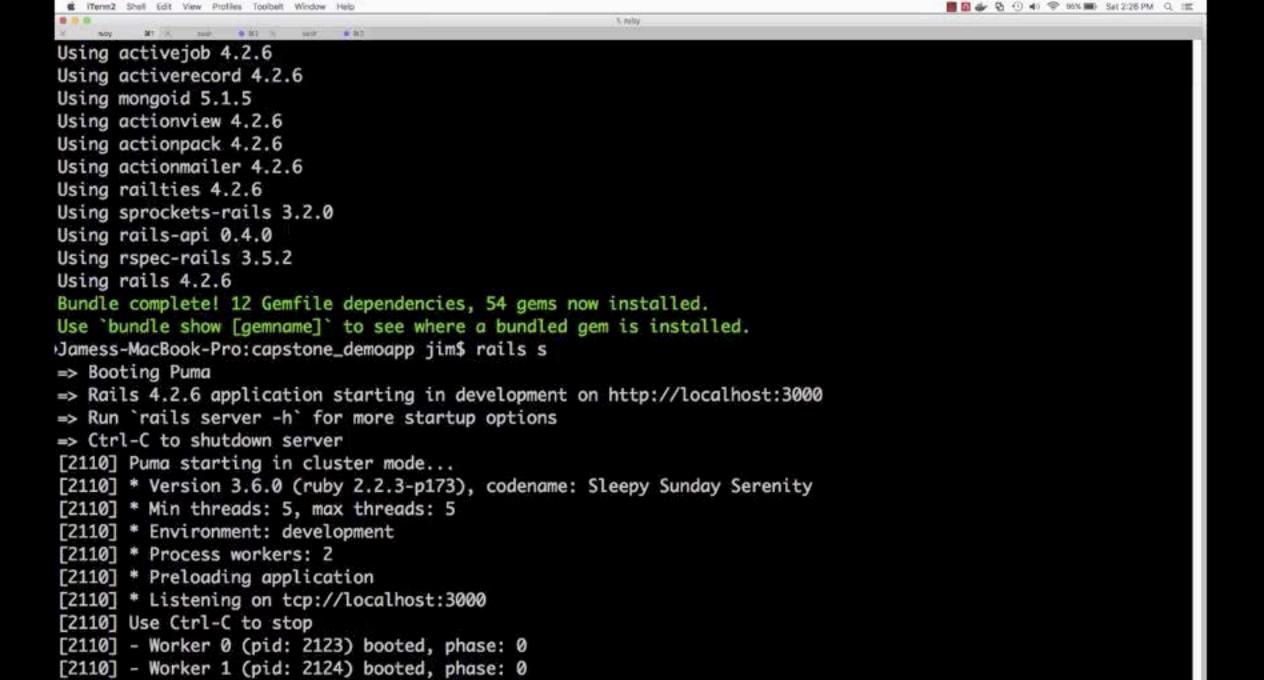
```
Using mail 2.6.4
Using rails-deprecated sanitizer 1.0.3
Using globalid 0.3.7
Using active model 4.2.6
Using jbuilder 2.6.0
Using spring 2.0.0
Using rails-html-sanitizer 1.0.3
Using rails-dom-testing 1.0.7
Using active job 4.2.6
Using activerecord 4.2.6
Using mongoid 5.1.5
Using actionview 4.2.6
Using actionpack 4.2.6
Using actionmailer 4.2.6
Using railties 4.2.6
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Using rails-api 0.4.0
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Command Framps - pundle

Z:\proj\fullstack\capstone demoapp>bundle

```
Command Framps
Using mongo 2.3.1
Using sprockets 3.7.0
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Using rspec-core 3.5.4
Using rspec-expectations 3.5.0
Using rspec-mocks 3.5.0
Using activesupport 4.2.6
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Using actionpack 4.2.6
Using actionmailer 4.2.6
Using railties 4.2.6
Using sprockets-rails 3.2.0
Using rails-api 0.4.0
Using rspec-rails 3.5.2
Using rails 4.2.6
Bundle complete! 12 Gemfile dependencies, 54 gems now installed.
Use 'bundle show [gemname] to see where a bundled gem is installed.
```

```
- 0
Command Prompt - help s
Using loofah 2.0.3
Using mail 2.6.4
Using rails-deprecated sanitizer 1.0.3
Using globalid 0.3.7
Using active model 4.2.6
Using jbuilder 2.6.0
Using spring 2.0.0
Using rails-html-sanitizer 1.0.3
Using rails-dom-testing 1.0.7
Using active job 4.2.6
Using activerecord 4.2.6
Using mongoid 5.1.5
Using actionview 4.2.6
Using actionpack 4.2.6
Using actionmailer 4.2.6
Using railties 4.2.6
Using sprockets-rails 3.2.0
Using rails-api 0.4.0
Using rspec-rails 3.5.2
Using rails 4.2.6
Bundle complete! 12 Gemfile dependencies, 54 gems now installed.
Use 'bundle show [gemname]' to see where a bundled gem is installed.
Z:\proj\fullstack\capstone demoapp>rails s
=> Booting WEBrick
=> Rails 4.2.6 application starting in development on http://localhost:3000
=> Run 'rails server -h' for more startup options
=> Ctrl-C to shutdown server
[2016-12-03 14:26:23] INFO WEBrick 1.3.1
[2016-12-03 14:26:23] INFO ruby 2.2.4 (2015-12-16) [i386-mingw32]
 2016-12-03 14:26:23] INFO WEBrick::HTTPServer#start: pid=6020 port=3000
```



Summary

- ♦ Rack Web Servers
- ♦ Configure application for use with Puma

What's Next?

♦ Gemfile Summary