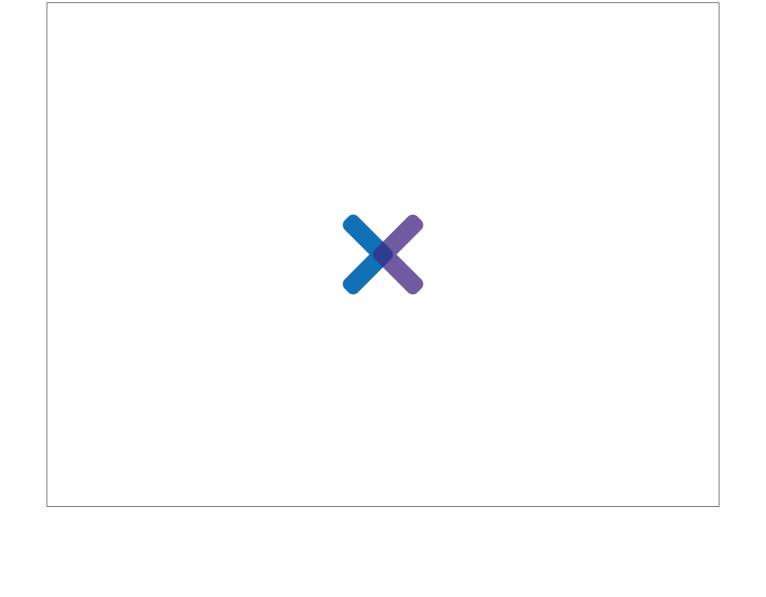
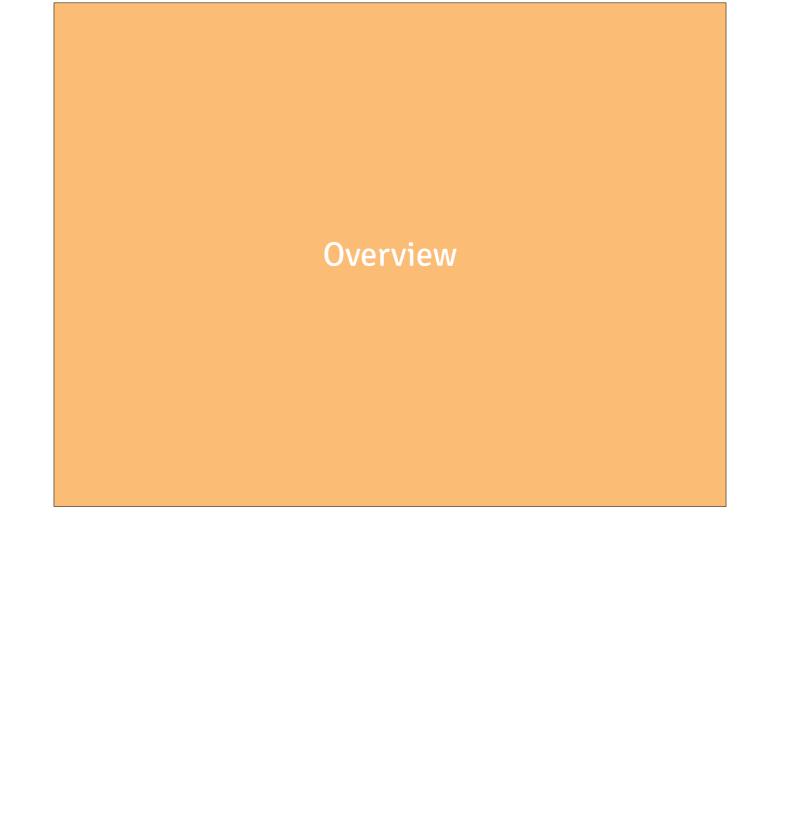
Process management with Foreman

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Foreman is a way to define processes for your application in code

What is Foreman?

Foreman can either run the application directly or delegate that responsibility to other linux tools

Using these definitions...

It was originally built by David Dollar at Heroku

Heroku leveraged Foreman to define services you wished to run on their platform

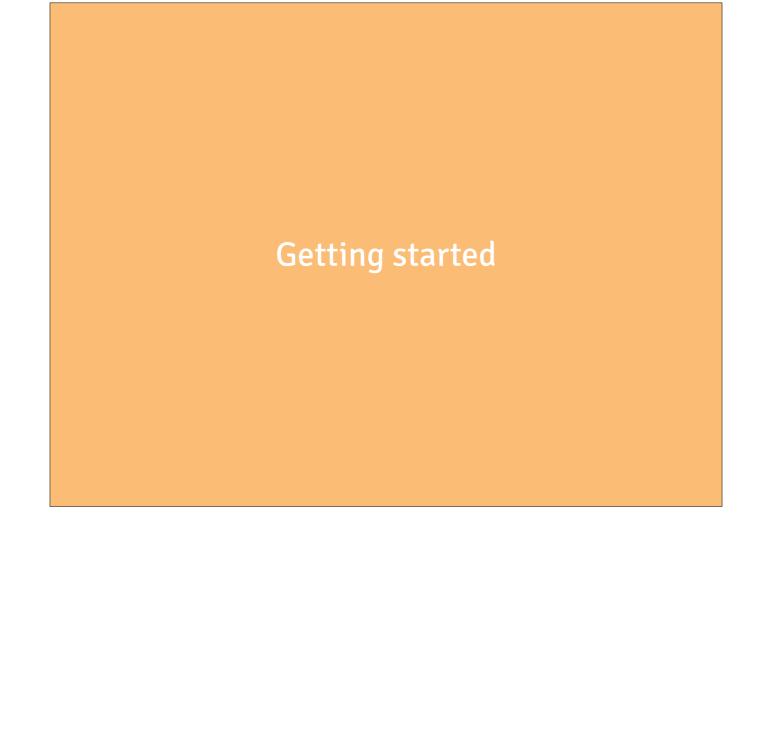
You should use it if...

You care about making your application architecture portable and reproducible across different environments

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Infrastructure as code is vital in a world dominated by cloud services





Process list format.

one: command two: command three: command

Multiple processes.

web: unicorn -c config.rb

Example web process for Rails.

web: unicorn -c config.rb

redis: redis-server redis.conf

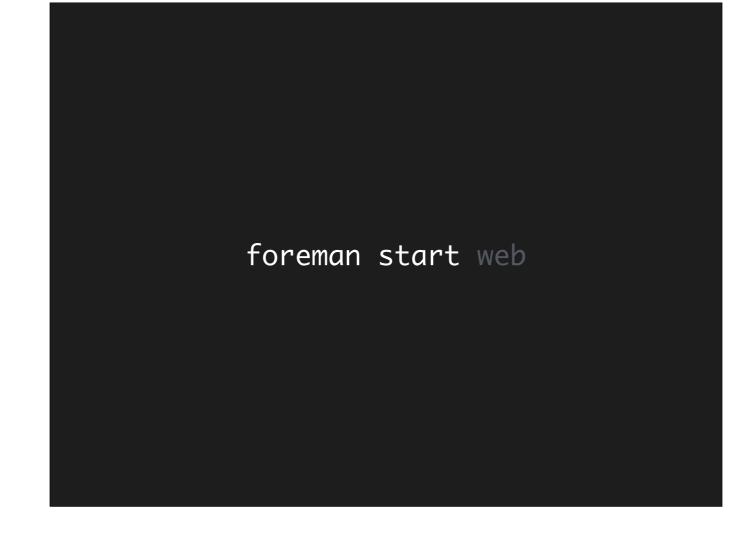
Example of multiple processes.



Firing up all processes.

foreman start [process name]

Firing up a single process.



Example of starting web.



What about spawning multiple processes per type? No problem.

web: unicorn -p \$PORT -c config.rb

How does this deal with allocating ports? A magic variable inside the Procfile. Increments every time a new process is created.

Configuration management

It's important to separate configuration values from the codebase

Foreman uses a well known key/value syntax to define configuration values



Environmental variables are stored in a file. These variables are sourced to the process when it's created. By default, Foreman will look for a .env file, but you can tell it to look in another one if you wish.

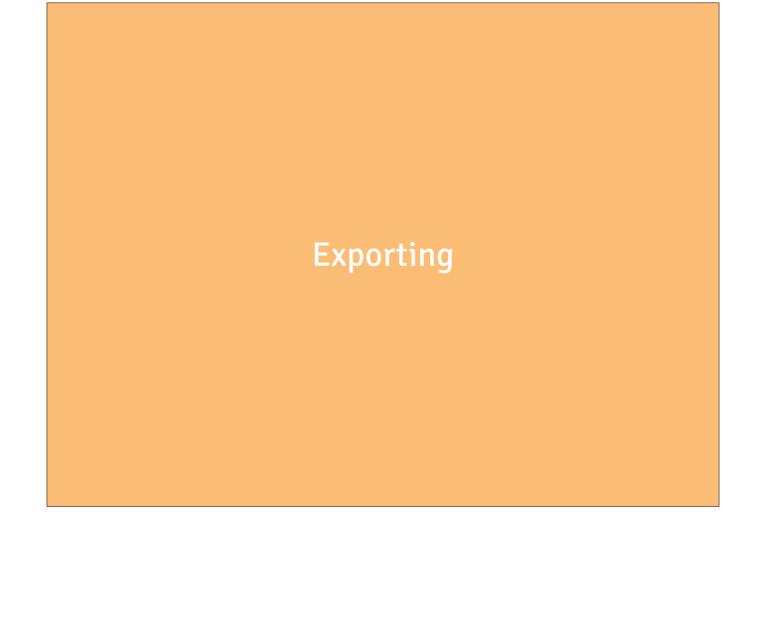
RAILS_ENV=production HTTP_USERNAME=bob HTTP_PASSWORD=secr3t

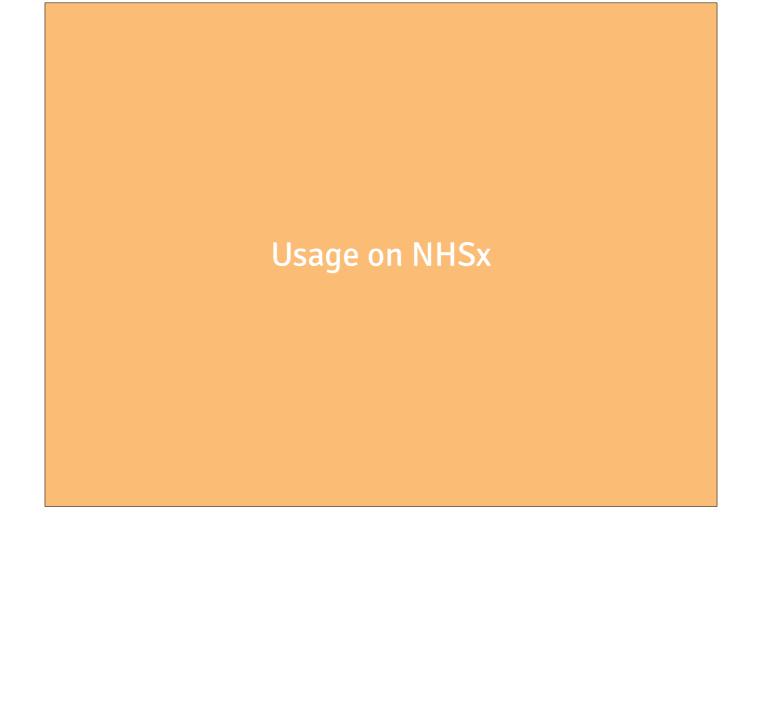
Any variable that can be defined in the shell can be defined here too.

foreman start -e .env.development

Because of this, we can defined different variables for different Rails environments (for example).

foreman start -e .env.test





Integrate with AWS





http://ddollar.github.io/foreman/



https://devcenter.heroku.com/articles/procfile

