DEVOPS

+ puppet
for StartUps

ABOUT ME

- entrepreneur @chayamuni

- devops consultant

- gov consultant

- ex corporate manager

- just like you

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WHAT IS DEVOPS

Dev   Ops

- "DevOps is a cultural and professional movement"
  Adam Jacob

- "It is a journey of discovery not a destination"
  Ben Cotton

- "Beer is the best tool to implement DevOps"
  Ben Rockwood

HOW TO INTEGRATE

- set the same goals

  - teams were antagonized by setting opposite goals:

    - dev: throughput

    - ops: uptime

- empower (let them figure out)

- remember: people have specializations
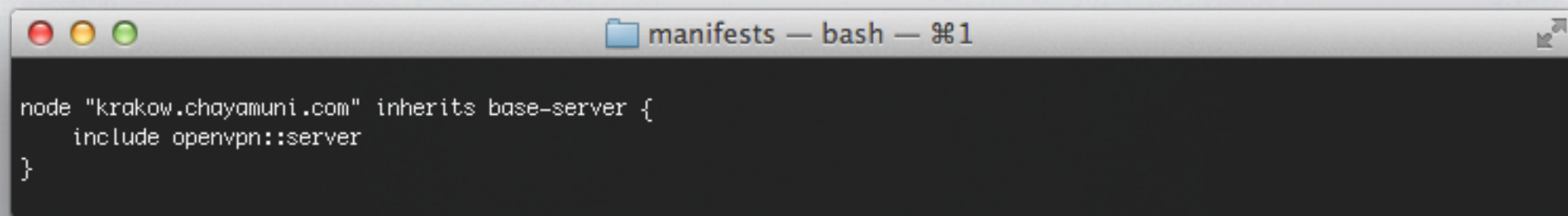
I'M STARTUP WITH 3 PEOPLE
I DON'T HAVE TEAMS

• you have roles and you will grow

• don't waste time and cash on administering servers: define them, deploy them, test, reiterate

• separate development, staging, production environments

• test

WHEN OUTSOURCING SYSADMIN

- Ask: "How shall I migrate to different provider (AWS, Rackspace, Linode)?"

- Ask: "How shall I migrate to bigger server?"

- Don't accept "copy image", "manually install package" Do you edit your code in hexeditor?

- Don't start from fancy architecture with multiple servers for page with 10 views per day but separate prod, staging, dev.

DEVOPS IS NOT ABOUT TOOLS

- ..., but tools help

- I love puppet

  - Imagine that you configure server by defining it:

```
node "krakow.chayamuni.com" inherits base-server {
    include openvpn::server
}
```

PUPPET IS (ONLY) A TOOL

- You **define** state of your servers

- It **simulates** the changes

- It **enforces** the state

- It provides **monitoring** dashboard

- It is declarative, based on Puppet DSL and **flexible**

DEMO

```
node "ni.cr3studio.com" inherits base-cr3studio-linode {
    include nginx

    wsgi::service {
        "isi":
            server_name    => "isi.cr3studio.com",
            sshkeys        => ["ssh-dss AAAAB3Nza... munhitsu@delta.local"];
    }

    wsgi::redirect {
        "www.isi.cr3studio.com":
            server_name     => "www.isi.cr3studio.com",
            redirect_url    => 'http://isi.cr3studio.com';
    }

    postgres::role {
        "isi":
            ensure => present,
            password => "isi";
    } -> postgres::database {
        "isi":
            ensure => present,
            owner => "isi";
    }

}
```

P.S.

- Don't forget about PaaS
  (i.e. Heroku, Nodejitsu, CloudControl, Rackspace cloud, Engine Yard)
  it's usually cheaper at the beginning

- However, meanwhile don't get stuck with one platform!

Q&A

- Thank You!

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