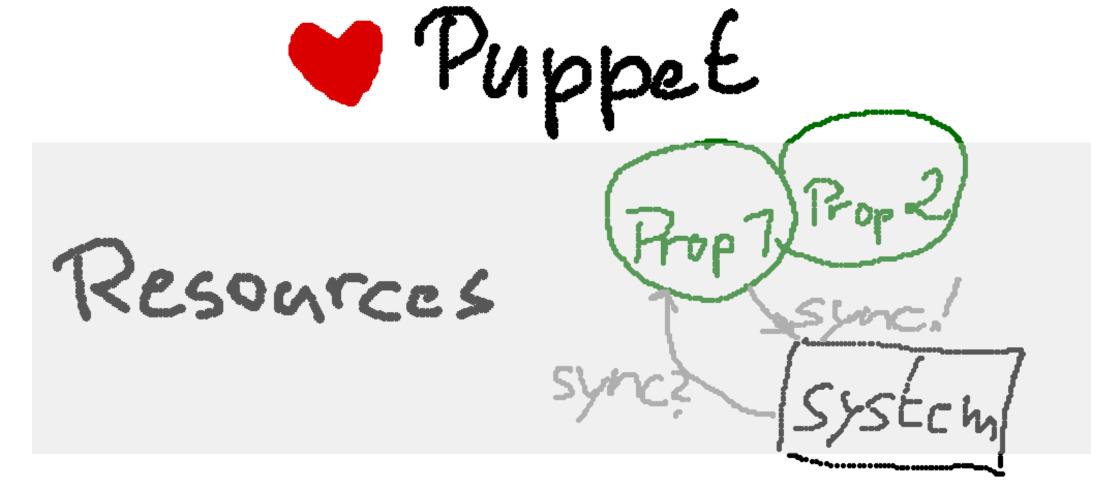
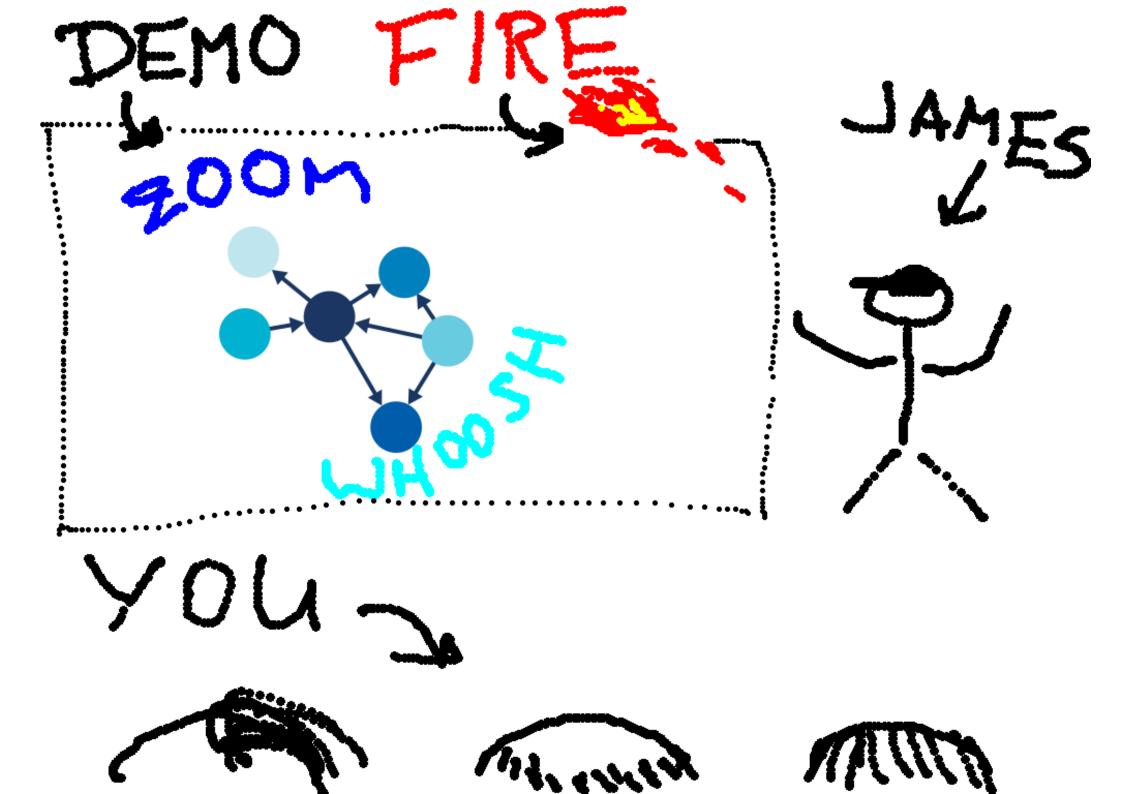


Gophers > ducks



Graph



# infrastructure. as data?

Nah! Infra-Stracture as code!

```
$vhosts = hiera('apache_virtual_hosts')
$vhosts.each { |$vh|
   include apache
   if $vh['special'] { ... }
   apache::vhost { $vh:
        ...
   }
}
```

JAMES "MZANSPILER BLA, BLOOB FELIX 1GOR











g. catalog

MASTER

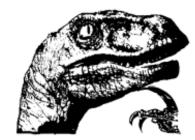
#### MASTER/ "COMPILER"

REQUEST

CLIENT CERT MANIFEST CATALOG GENT

## IF THIS 15 A RESOURCE

```
file { '/etc/ntp.conf':
   owner => 'root',
   mode => '0644',
   content => "# This file is empty\n",
}
```



## HOW CANIPARSE IT?

```
TOKENISE
```

```
file { '/etc/ntp.conf':
   owner => 'root',
   mode => '0644',
   content => "# This file is empty\n",
}
```

```
file { /etc/ntp.conf : owner
=> root , mode => 0644 ,
content => # This file is empty\n }
```



```
PUPPET
                     'type": "File",
                     "title": "/etc/ntp.conf",
CATALOG
                     "parameters": {
                       "owner": "root",
                       "mode": "0644",
                       "content": "# This file is empty\n"
 { "file":
    { "name": "file1",
      "path": "/etc/ntp.conf"
                                        MGMT
      "owner: "root",
      "content": "# This file is empty\n"
```

GRAPH

```
package { "cowsay":
   ensure => "installed",
}
->
exec { "/usr/games/cowsay It works": }
```



```
graph: fflaptop.local
Packone
                        comment: generated from puppet catalog for fflaptop.local
                        resources:
                          pkg:
                          - name: cowsay
                            state installed
                          exec
                          - name: "/usr/games/cowsay It works"
                            cmd: "/usr/games/cowsay It works"
                            timeout 300.0
                            shell "/bin/bash"
  execa
                            watchshell "/bin/bash"
                            ifshell "/bin/bash"
                            watchcmd: 'while: ; do echo "puppet run interval passe
                            state: present
                            pollint 0
                        edges:
                        name: Package[cowsay] -> Exec[/usr/games/cowsay It works]
                          from
                            kind pkg
                            name: cowsay
                          to:
                            kind exec
```

name: "/usr/games/cowsay It works"

```
PuppetX::CatalogTranslation::Type.new :service do
  spawn :name do
    @resource[:name]
 end
  rename :ensure, :state do |value|
    case value
    when :running, true, :true
    :running
   else
    :stopped
    end
 end
  rename :enable, :startup do |value|
    if value == true || value == :true
      :enabled
    else
    :disabled
   end
 end
end
```

```
module PuppetX::CatalogTranslation::Type.new :file do
 spawn :name do
   @resource.title
 end
 spawn :path do
   if @resource[:ensure] == :directory
     @resource[:name] + "/"
   else
     @resource[:name]
   end
 end
 rename :ensure, :state do |value|
   case value
   when :present, :file, :directory
     :exists
   when :absent
     :absent
   else
     raise "cannot translate file ensure:#{value}"
   end
                    spawn :content do
 end
```

## mant: dir has trailing slash

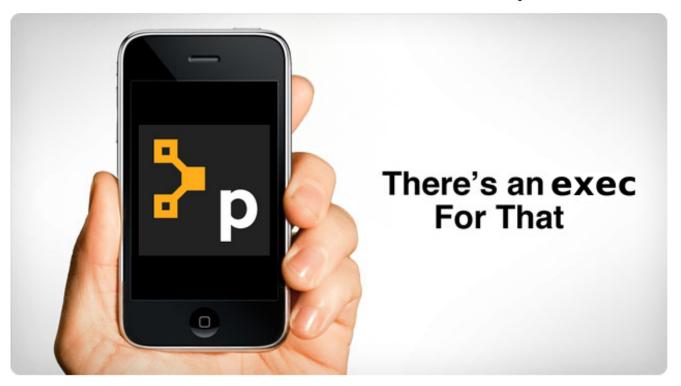




### NO TRANSLATION?

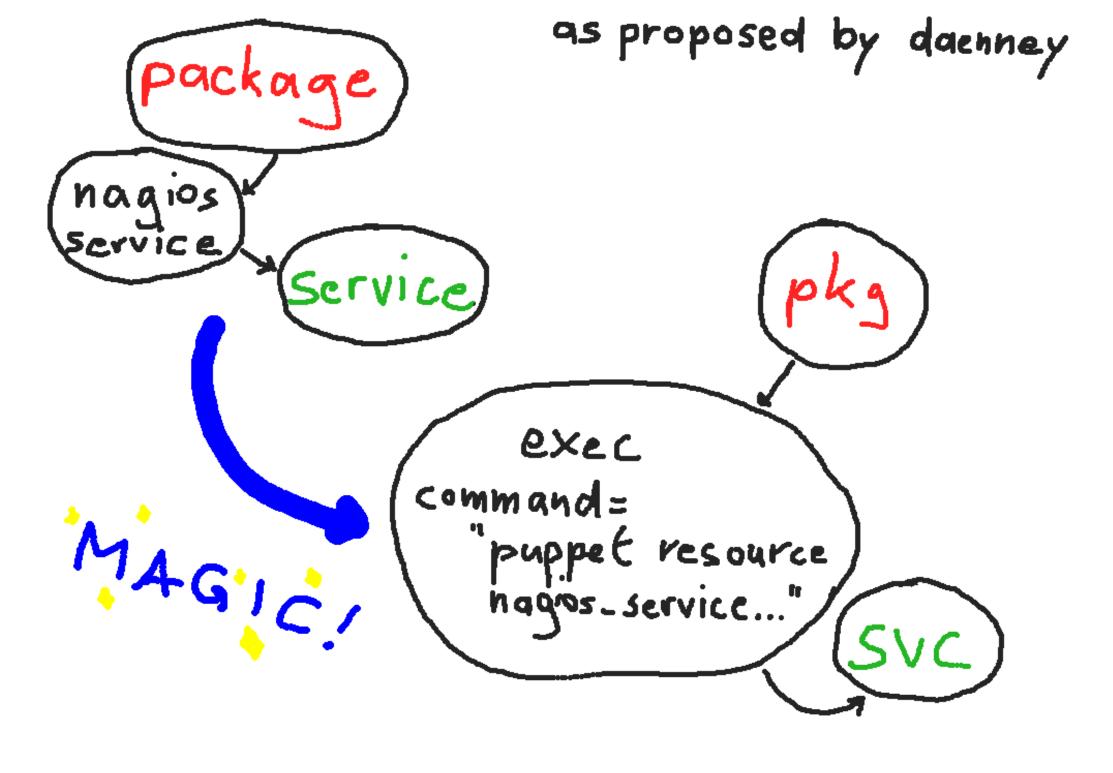


#### WELL,





puppet resource nagios\_service HTTP \
 ensure=present use=simple\_http\_check \
 host\_name=app03-wp02 contact\_groups=care-bears





# YMCA

It's harder in other languages.

NO Q&A 1ES SOMEONE

CATCH US DURING BREAK