

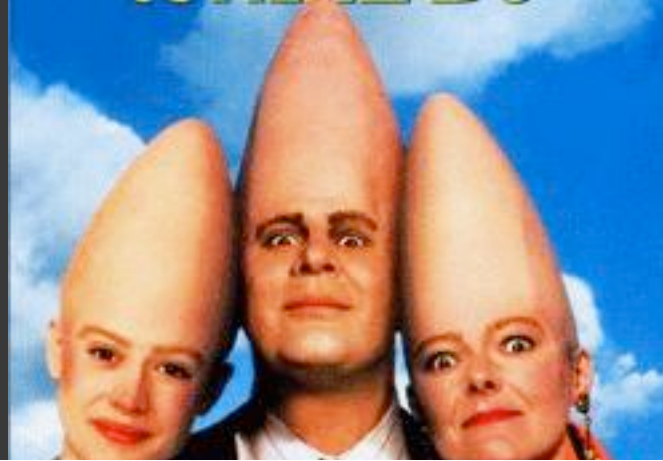
From The Trenches

agenda

- ~ My deployment story
- ~ Cap 2.0 Plumbing
- ~ Cap tricks of the trade
- ~ Creating your own deployment strategies
- ~ Creating your own Cap2 plugin
- ~ Announcement...



so who is that clown?







Struts

CORBA

Swing

Middlegen

Hybernate

J2EE

JINI

Spring



2 years ago...





DeRailed

Denver Rails User Group

railsplugins

ZiYa

ziya.liquidrail.com



The MOle liquidrail.com

mole FinancialIntellect					GRAPHS REFRESH OFF FILTERS TOPS
					Found 395 (395) Events CSV
✓ ewjinco@hotmail.com	75.71.64.60, 10.10.14.121	search	MediaIntelController		22:25:24
✓ ewjinco@hotmail.com	75.71.64.60, 10.10.14.121	search	MediaIntelController		22:25:02
✓ ewjinco@hotmail.com	75.71.64.60, 10.10.14.121	preview	MediaIntelController		22:22:41
✓ ewjinco@hotmail.com	75.71.64.60, 10.10.14.121	preview	MediaIntelController		22:22:22
✓ ewjinco@hotmail.com	75.71.64.60, 10.10.14.121	toggle_filter	MediaIntelController		22:22:14
✓ ewjinco@hotmail.com	75.71.64.60, 10.10.14.121	handle_success	LoginController		22:22:00
✓ david-admin@collective...	71.196.218.73, 10.10.14.121	logout	MediaIntelController		21:59:30
✓ N/A	67.41.200.89, 10.10.14.121	tag	Analysis::EmailReportController		20:02:57
✓ N/A	67.41.200.89, 10.10.14.121	tag	Analysis::EmailReportController		20:01:42
✓ N/A	67.41.200.89, 10.10.14.121	tag	Analysis::EmailReportController		19:56:00
✓ ewjinco@hotmail.com	71.237.88.185, 10.10.14.121	handle_success	LoginController		18:31:14
✓ N/A	209.111.88.98, 10.10.14.121	tag	Analysis::EmailReportController		18:29:49
✓ mark@collectiveintelle...	71.216.223.104, 10.10.14.121	logout	MediaIntelController		18:12:40
✓ don@applanvc.com	69.15.176.26, 10.10.14.121	preview	MediaIntelController		18:11:23
✓ don@applanvc.com	69.15.176.26, 10.10.14.121	toggle_filter	MediaIntelController		18:11:15
✓ don@applanvc.com	69.15.176.26, 10.10.14.121	toggle_filter	MediaIntelController		18:11:08
✓ mark@collectiveintelle...	71.216.223.104, 10.10.14.121	Performance			18:09:09
✓ mark@collectiveintelle...	71.216.223.104, 10.10.14.121	search	MediaIntelController		18:08:31
✓ mark@collectiveintelle...	71.216.223.104, 10.10.14.121	toggle_filter	MediaIntelController		18:08:14
✓ mark@collectiveintelle...	71.216.223.104, 10.10.14.121	handle_success	LoginController		18:08:09
✓ don@applanvc.com	69.15.176.26, 10.10.14.121	preview	MediaIntelController		18:08:03
✓ don@applanvc.com	69.15.176.26, 10.10.14.121	toggle_filter	MediaIntelController		18:07:04
✓ don@applanvc.com	69.15.176.26, 10.10.14.121	preview	MediaIntelController		18:05:35
✓ don@applanvc.com	69.15.176.26, 10.10.14.121	preview	MediaIntelController		18:03:21
✓ don@applanvc.com	69.15.176.26, 10.10.14.121	preview	MediaIntelController		18:00:19
✓ don@applanvc.com	69.15.176.26, 10.10.14.121	preview	MediaIntelController		17:58:40
✓ don@applanvc.com	69.15.176.26, 10.10.14.121	preview	MediaIntelController		17:58:01
✓ don@applanvc.com	69.15.176.26, 10.10.14.121	preview	MediaIntelController		17:56:44
✓ don@applanvc.com	69.15.176.26, 10.10.14.121	handle_success	LoginController		17:56:36
✓ nick@collectiveintelle...	71.237.88.185, 10.10.14.121	tag	Analysis::EmailReportController		17:48:17
✓ greg@collectiveintelle...	71.216.223.104, 10.10.14.121	tag	Analysis::EmailReportController		17:36:16
✓ fienergy	71.216.223.104, 10.10.14.121	logout	MediaIntelController		17:21:16
✓ fienergy	71.216.223.104, 10.10.14.121	toggle_filter	MediaIntelController		17:14:47
✓ fienergy	71.216.223.104, 10.10.14.121	toggle_filter	MediaIntelController		17:14:41
✓ fienergy	71.216.223.104, 10.10.14.121	toggle_filter	MediaIntelController		17:14:35

C



P
2.0

what's that?

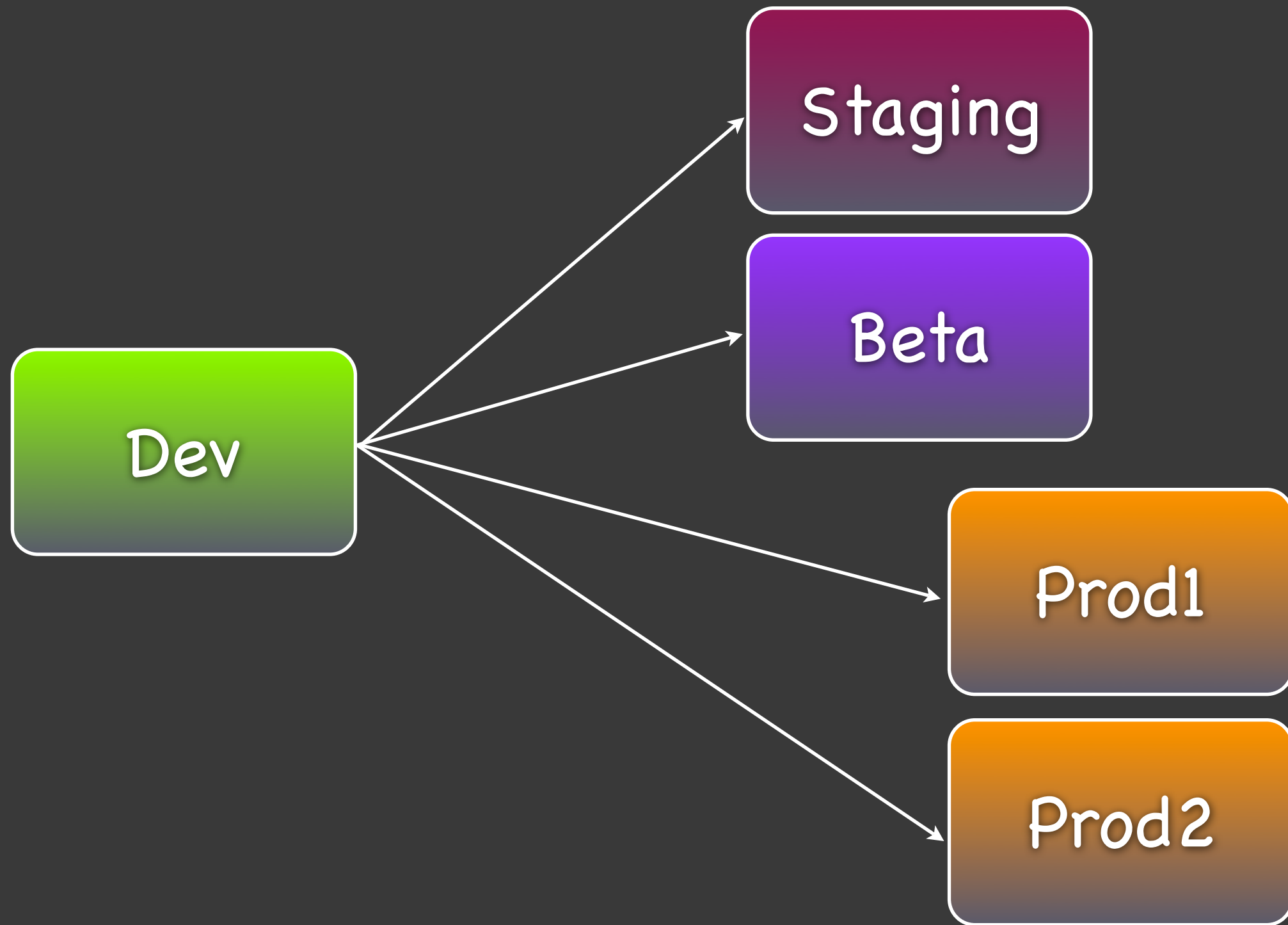
- ~ Application Deployment Tool
- ~ Remote Shell To Your Deployment Assets
- ~ Systems management tool

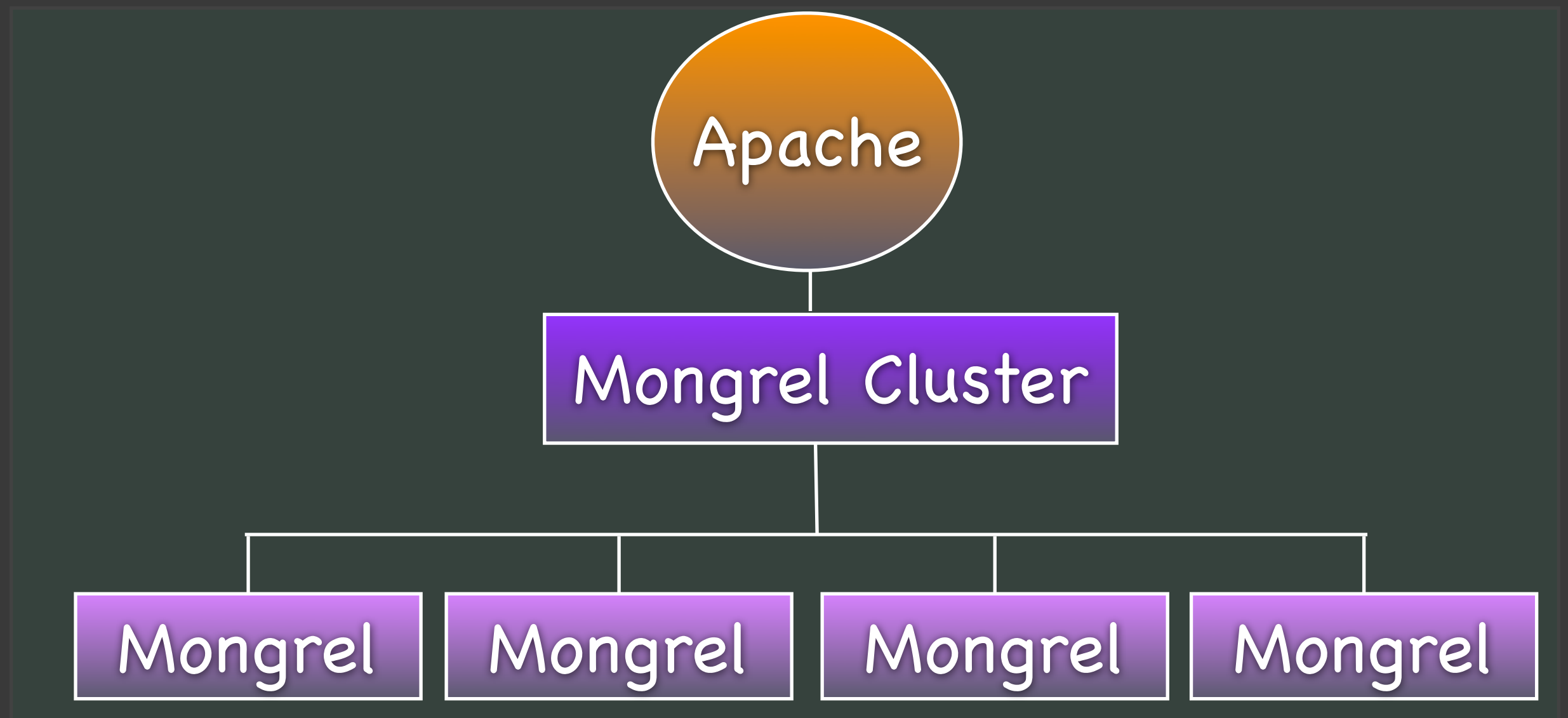
newin2.0

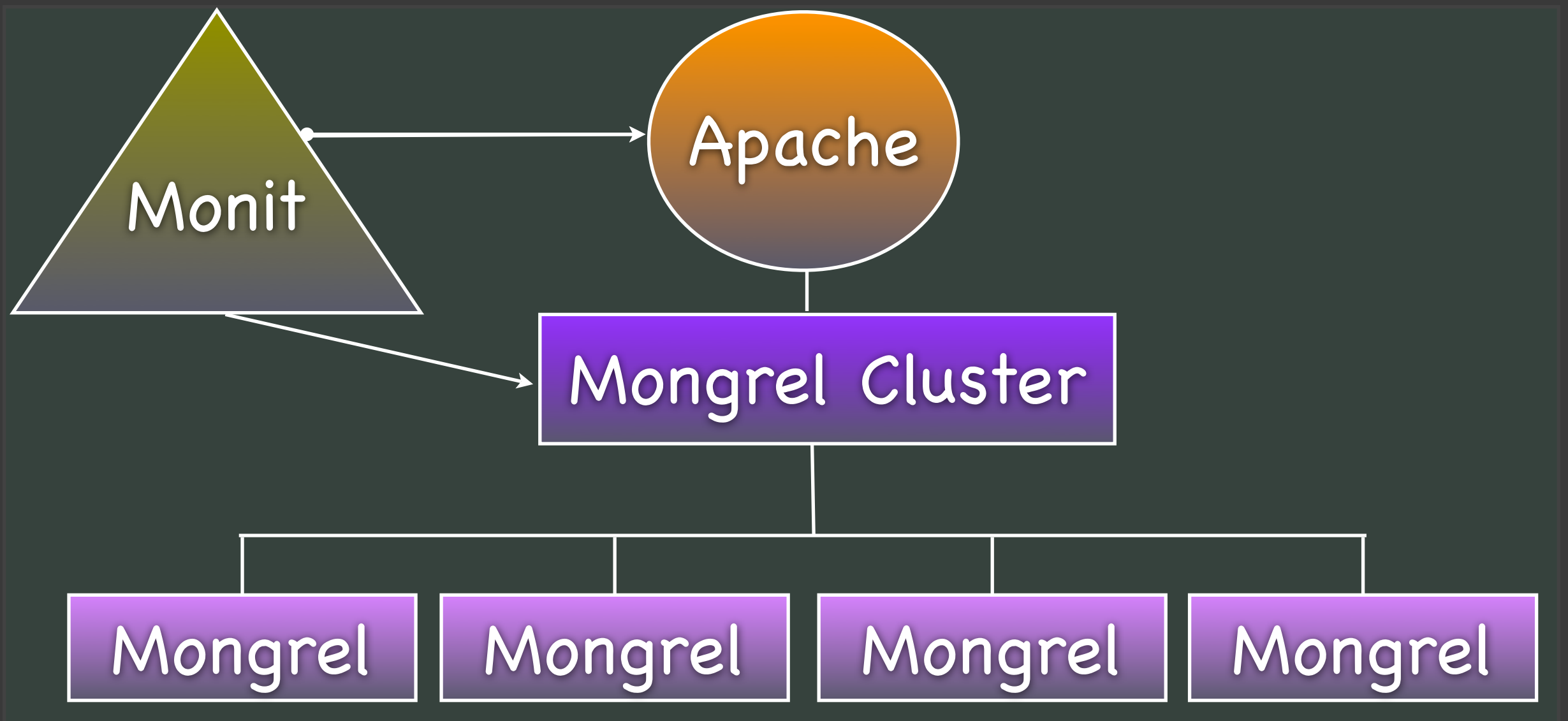
Namespaces
! Rake
Deployment Strategies
Event Framework
Run/Sudo commands
Online Help

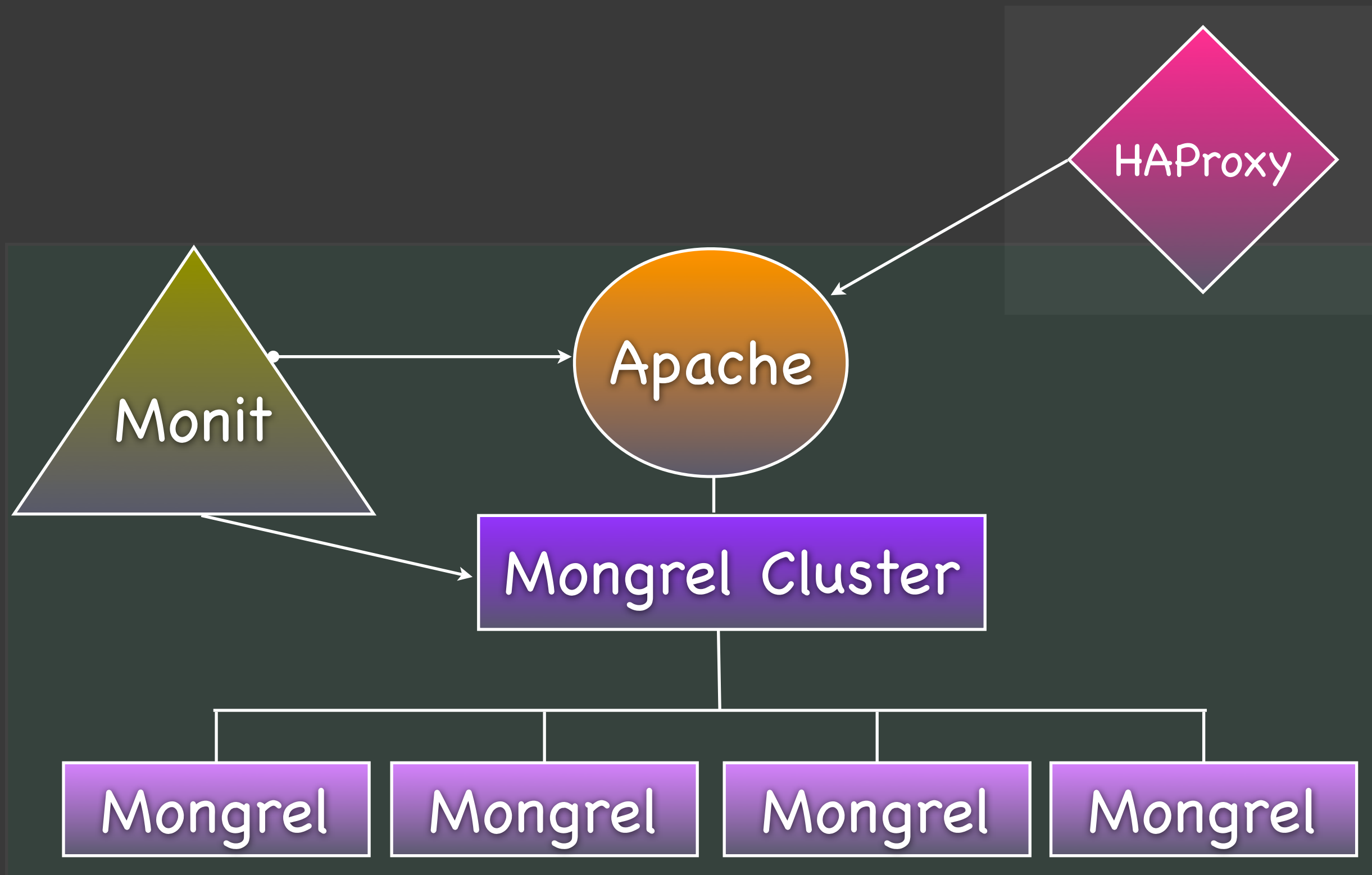
mytrenches

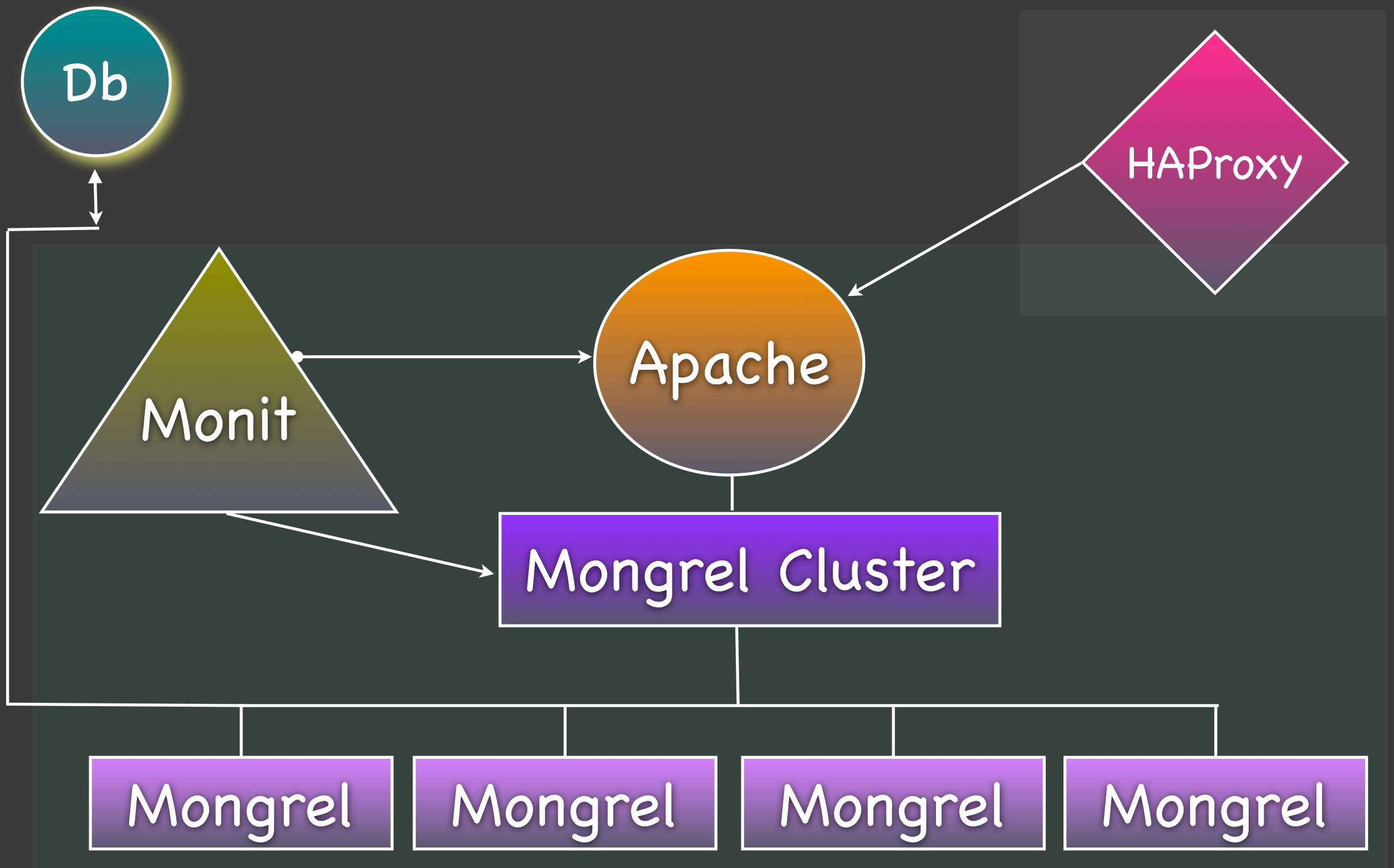
10 internal applications
4 external applications

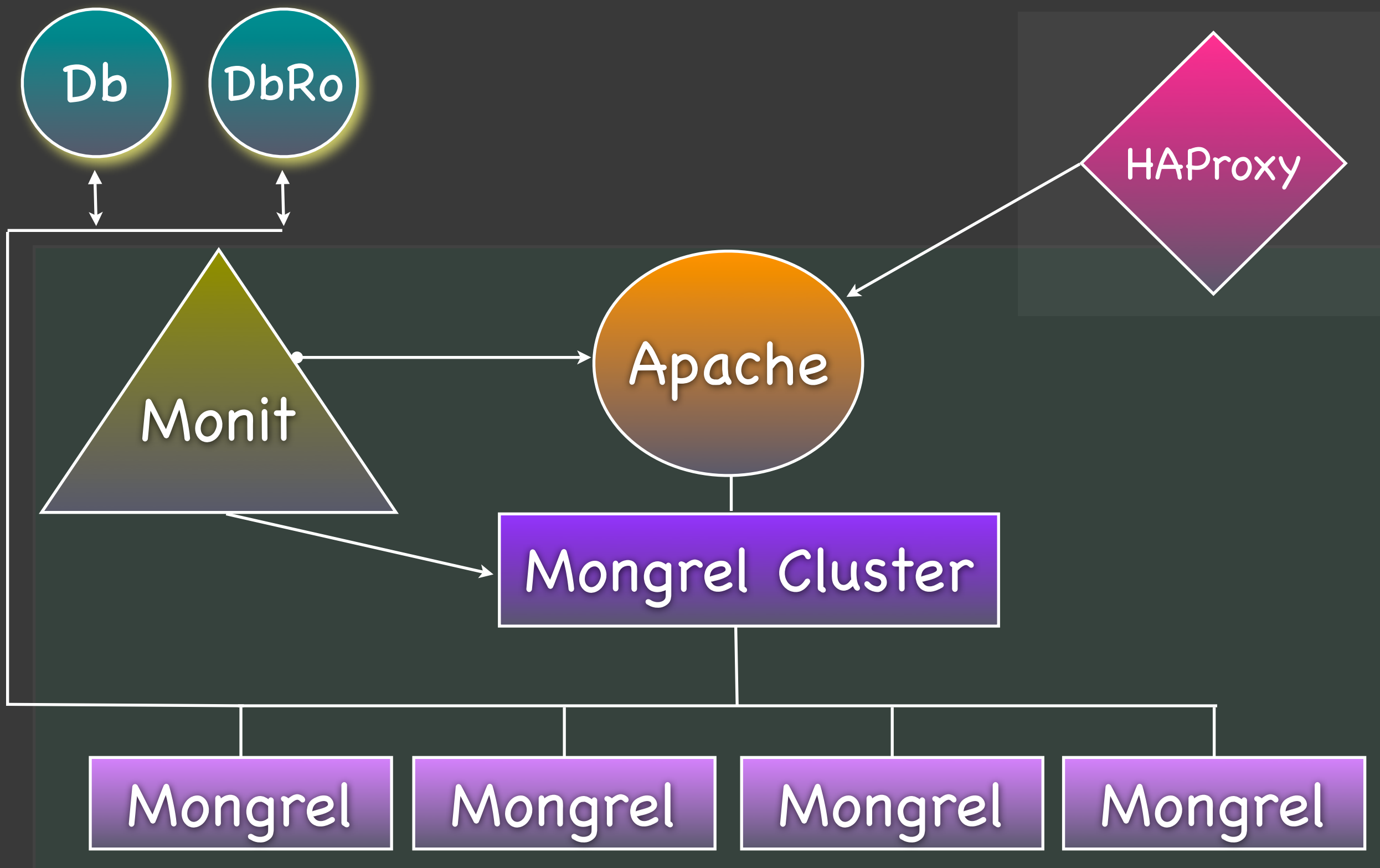












how can it possibly work?



```
> gem install capistrano  
> cd ~/my_projects/fred_app  
> capify .
```

```
> cap deploy:setup
```

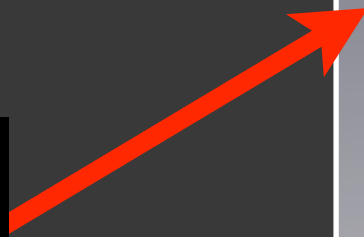


Host A

Host B

Host C


```
> cap deploy:setup
```



projects
fred app
releases
shared

Host A

Host B

Host C

> cap **deploy**:**setup**



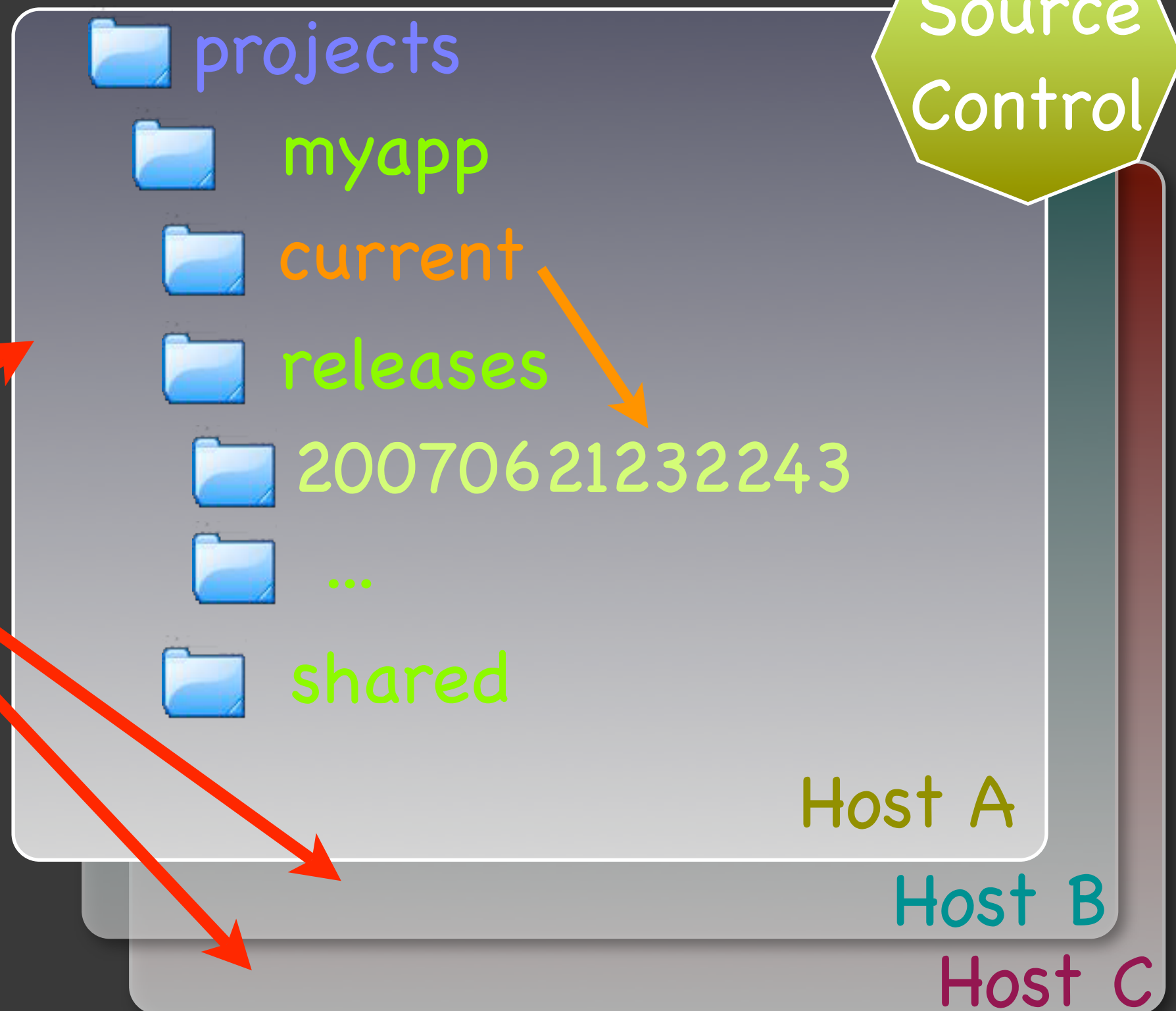
projects
 fred app
 releases
 shared

Host A

Host B

Host C

> cap **deploy**



default

cold

setup

update

migrations

check

rollback

clean

update_code

upload

rollback_code

symlink

finalize_update

migrate

start

stop

restart

> cap **deploy**

deploynamespace

default

cold

setup

update

migrations

check

rollback

clean

update_code

upload

rollback_code

symlink

finalize_update

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deploynamespace

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stop

restart

> cap **deploy**

deploynamespace

default

cold

setup

update

migrations

check

rollback

clean

update_code

upload

rollback_code

symlink

finalize_update

migrate

start

stop

restart

> cap **deploy**

deploynamespace

default

cold

setup

update

migrations

check

rollback

clean

update_code

upload

rollback_code

symlink

finalize_update

migrate

start

stop

restart

> cap **deploy**:cold

deploynamespace

default

cold

setup

update

migrations

check

rollback

clean

update_code

upload

rollback_code

symlink

finalize_update

migrate

start

stop

restart

> cap **deploy:cold**

deploynamespace

default

cold

setup

update

migrations

check

rollback

clean

update_code

upload

rollback_code

symlink

finalize_update

migrate

start

stop

restart

> cap **deploy**:cold

deploynamespace

default

cold

setup

update

migrations

check

rollback

clean

update_code

upload

rollback_code

symlink

finalize_update

migrate

start

stop

restart

> cap **deploy:cold**

deploynamespace

default

cold

setup

update

migrations

check

rollback

clean

update_code

upload

rollback_code

symlink

finalize_update

migrate

start

stop

restart

> cap **deploy:cold**

deploynamespace

default

cold

setup

update

migrations

check

rollback

clean

update_code

upload

rollback_code

symlink

finalize_update

migrate

start

stop

restart

> cap **deploy:cold**

deploynamespace

default

cold

setup

update

migrations

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rollback

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rollback_code

symlink

finalize_update

migrate

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stop

restart

> cap **deploy:migrations**

deploynamespace

default

cold

setup

update

migrations

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rollback

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update_code

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rollback_code

symlink

finalize_update

migrate

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restart

> cap **deploy:migrations**

deploynamespace

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rollback

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rollback_code

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finalize_update

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restart

> cap **deploy:migrations**

deploynamespace

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cold

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rollback

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rollback_code

symlink

finalize_update

migrate

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stop

restart

> cap **deploy:migrations**

deploynamespace

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restart

> cap **deploy:migrations**

deploynamespace

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rollback_code

symlink

finalize_update

migrate

start

stop

restart

> cap **deploy:migrations**

deploynamespace

default

cold

setup

update

migrations

check

rollback

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update_code

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rollback_code

symlink

finalize_update

migrate

start

stop

restart

> cap **deploy:migrations**

deploynamespace

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rollback_code

symlink

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migrate

start

stop

restart

> cap **deploy:rollback**

deploynamespace

default

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migrations

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update_code

upload

rollback_code

symlink

finalize_update

migrate

start

stop

restart

> cap **deploy:rollback**

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upload

rollback_code

symlink

finalize_update

migrate

start

stop

restart

~> cap **deploy:setup**

Lays down deployment dir on remote hosts

set :application, "fred"

set :deploy_to , "/rails/projects/#{application}"

~> cap **deploy**

Deploys your app onto remote hosts

role :app, %w{ 1.1.1.1 2.2.2.2 }

~> cap **deploy:finalize_update**

Touches up deploy code – update shared links

asset timestamp – group writable if set

> cap **deploy**

deploy.rb

```
# Default
set :deploy_via, :checkout
# Export
set :deploy_via, :export

# Co locally and tar to remote hosts
set :deploy_via, :copy
set :copy_strategy, :export | :checkout
set :copy_compression, :zip | :bz2 | :gzip

# Use a remote cache
set :repository_cache, 'svn_cache'
set :deploy_via, :remote_cache
```

~> cap **deploy:update_code**

Moves code base to remote host

```
set :repository      , "svn://liquidrail.org/svn"
```

```
set :scm              , :subversion
```

```
set :scm_username     , "fred"
```

```
set :scm_password     , "secret"
```

```
set :scm_passphrase   , "Let me in"
```

```
set :scm_verbose      , true|false
```

~> cap **deploy:symlink**

Setup current release link

~> cap **deploy:upload** FILES=controller.rb

Patches current release with files/dirs updates

~> cap **deploy:update**

Updates code on remote servers and restart

set :deploy_via , :checkout|export|copy|remote_cache

set :copy_strategy , :export

set :copy_compression, :zip | gz | gzip | bzip2 | bz2

set :copy_remote_dir , "/tmp"

set :repository_cache , "source_cache"

~> cap **deploy:restart**

Restarts application – default sudo

~> cap **deploy:rollback_code**

Changes symlink to prev release

➤ `cap deploy:rollback`
Rollback code and restart

➤ `cap deploy:migrate`
Runs migrations on remote hosts
`set :rake` , "rake"
`set :rails_env` , "production"
`set :migrate_target, :latest | :current`

➤ `cap deploy:migrations`
Deploys latest code base, runs migrations and restarts the servers

➤ `cap deploy:cleanup`
Removes old releases from server – default sudo
`set :keep_releases, 10`

~> cap **deploy:check**

Checks deployment dependencies

depend :remote, :gem, "asset_packager", ">=1.0"

depend :remote, :command, "svn"

depend :remote, :directory, "/tmp/fred"

depend :remote, :writable, "/tmp/fred.rb"

depend :local , :directory, "/porn"

~> cap **deploy:cold**

Precond: app was never deployed.

Deploys new code, runs migrations and restart

~> cap **deploy:start**

set :runner, "bubba"

set :run_method, :sudo | :run

~> cap **deploy:stop**

~> cap **deploy:restart**

~> cap **deploy:pending**

Check source control logs for update since last deploy

~> cap **deploy:pending:diff**

Show latest sources diffs

~> cap **deploy:web:disable**

Disable site and presents maintenance page

REASON = "Gone to lunch", UNTIL="4pm MST"

~> cap **deploy:web:enable**

Enable web site

getting your chops...



namespaces

```
role :repeater, "coolhost.com"
namespace :puppet do
  desc "Echo's stuff"
  task :echo do
    run "echo 'Hello World'"
  end
end
namespace :mystuff do
  desc "Do something"
  task :default do
    puppet.echo
    run "ls /home/fred"
  end
end
```



```
namespace :deploy do
  desc "My own restart"
  task :restart, :roles => :app do
    ...
  end
end
```

```
# Or inline
deploy.task :restart, :roles => :app do
  ...
end
```

capdirect

my_cap.rb

```
# Create a capistrano configuration
config = Capistrano::Configuration.new

# Load a configuration
config.load File.join( "/tmp/fred", "Capfile" )

config.deploy.setup
config.deploy
```

handling events?



```
namespace :fred do
```

```
# Chain filters (Note namespace naming )
```

```
before "fred:doit", "fred:before", "fred:before_also"
```

```
# Or inline
```

```
after "fred:doit" do
```

```
  p "Goodbye !!"
```

```
end
```

```
task :doit do
```

```
  p "Hello Doit !!"
```

```
end
```

```
task :before do
```

```
  p "Hello Before !!"
```

```
end
```

```
task :before_also do
```

```
  p "Hello Before Also !!"
```

```
end
```

```
end
```

```
> cap fred:doit
```

```
    triggering before callbacks for `fred:doit`
```

```
    * executing `fred:before`
```

```
"Hello Before !!"
```

```
    * executing `fred:before_also`
```

```
Hello Before Also !!
```

```
    * executing `fred:doit`
```

```
Hello Doit !!
```

```
    triggering after callbacks for `fred:doit`
```

```
"Goodbye !!"
```



```
on :start, "fred:fire_1", "fred:fire_2"
on :finish do
  p "Ciao Bello..."
end
namespace :fred do
  task :mama do
    p "Hello Mama !!"
  end
  task :papa do
    p "Hello Papa !!"
  end
  task :fire_1 do
    p "Fire 1"
  end
  task :fire_2 do
    p "Fire 2"
  end
end
```

```
> cap fred:mama fred:papa
  triggering start callbacks for `fred:mama'
    * executing `fred:fire_1'
"Fire 1"
    * executing `fred:fire_2'
"Fire 2"
    * executing `fred:mama'
"Hello Mama !!"
  triggering finish callbacks for `fred:mama'
"Ciao Bello..."
  triggering start callbacks for `fred:papa'
    * executing `fred:fire_1'
"Fire 1"
    * executing `fred:fire_2'
"Fire 2"
    * executing `fred:papa'
"Hello Mama !!"
  triggering finish callbacks for `fred:papa'
"Ciao Bello..."
```

```
on :before, "friendly:mole",  
  :except => ["friendly:mole", "friendly:papa" ]
```

```
namespace :friendly do  
  task :mole do  
    p "You've been mole'd"  
  end  
  task :mama do  
    p "Hello Mama !!"  
  end  
  task :papa do  
    p "Hello Papa !!"  
  end  
end
```

```
> cap friendly:mama friendly:papa  
  triggering before callbacks for `friendly:mama'  
    * executing `friendly:mole'  
    "You've been mole'd"  
    * executing `friendly:mama'  
    "Hello Mama !!"  
    * executing `friendly:papa'  
    "Hello Papa !!"
```

variables&bindings



```
set :my_var, "tall"
set :my_var, 10 if exists? :my_var

task :print_me do
  p "Eddie is #{my_var}"           # => Eddie is 10
  reset! :my_var
  p "Eddie is #{my_var}"           # => Eddie is 10
  unset :my_var
  p "Eddie is #{my_var}"           # => ERROR !! Undefined
  p "Eddie is '#{fetch( :my_var, "crap" )}'" # => Eddie is crap
end
```

```
set :var_1, "Mama"  
set :var_2, "Hello #{var_1} !!"
```

```
task :do_it do  
  var_1 = "Bubba"  
  p "#{var_2}"  
end
```

```
> cap do_it
```

?

bindings?



```
set :var_1, "Mama"  
set :var_2, "Hello #{var_1} !!"
```

```
task :do_it do  
  var_1 = "Bubba"  
  p "#{var_2}"  
end
```

```
> cap do_it
```

```
Hello Mama !!
```

```
set :var_1, "Mama"  
set(:var_2) {"Hello #{var_1}"}
```

```
task :do_it do  
  var_1 = "Bubba"  
  p "#{fred}"  
end
```

```
> cap do_it
```

```
Hello Bubba !!
```

If you don't remember anything else
from this pres

Remember this
ESPECIALLY when using the multistage_ext

```
set :deploy_dir, "/projects/#{stage}" => Doh !!
```

capconfig

/projects/app1/config/deploy.rb

```
set :application, "app1"
set :repository,  "svn://acme.com/svn/projects/#{application}/trunk"
set :deploy_to,   "/home/acme/projects/#{application}"
set :user,         "fernand"

role :app, ["1.1.1.1", "2.2.2.2"]
role :web, "1.1.1.1"
role :db,  "4.4.4.4", :primary => true

after :deploy, :always_do_this

task :always_do_this do
  ....
end

....
```


/projects/app2/config/deploy.rb

```
set :application, "app2"
set :repository,  "svn://acme.com/svn/projects/#{application}/trunk"
set :deploy_to,   "/home/acme/projects/#{application}"
set :user,         "fernand"

role :app, ["1.1.1.1"]
role :web, "1.1.1.1"
role :db,  "4.4.4.4", :primary => true

after :deploy, :always_do_this

task :always_do_this do
  ....
end

....
```

/projects/app1/config/deploy.rb

```
set :application, "app1"
set :repository,  "svn://acme.com/svn/projects/#{application}/trunk"
set :deploy_to,   "/home/acme/projects/#{application}"
set :user,         "fernand"
```

```
role :app, ["1.1.1.1", "2.2.2.2"]
role :web, "1.1.1.1"
role :db,  "4.4.4.4", :primary => true
```

```
after :deploy, :always_do_this
task :always_do_this do
```

```
  ....
end
....
```

/projects/app2/config/deploy.rb

```
set :application, "app2"
set :repository,  "svn://acme.com/svn/projects/#{application}/trunk"
set :deploy_to,   "/home/acme/projects/#{application}"
set :user,         "fernand"
```

```
role :app, ["1.1.1.1"]
role :web, "1.1.1.1"
role :db,  "4.4.4.4", :primary => true
```

```
after :deploy, :always_do_this
task :always_do_this do
  ....
end
```

dry?



/projects/app1/config/deploy.rb

```
set :application, "app1"  
role :app, [appsrv1, appsrv2]
```

/projects/app2/config/deploy.rb

```
set :application, "app2"  
role :app, [appsrv1]
```

leveling?



load 'deploy' if respond_to?(:namespace) **/projects/Capfile**

```
set(:repository) {"svn://acme.com/svn/projects/#{application}/trunk"}
set(:deploy_to)  {"home/acme/projects/#{application}"}
set :user,       "fernand"
```

```
set :app_srv1,   "1.1.1.1"
set :app_srv2,   "2.2.2.2"
```

```
role :web, app_srv1
role :db,  "4.4.4.4", :primary => true
```

```
after :deploy, :always_do_this
```

```
task :always_do_this do
```

```
  ....
```

```
end
```

```
....
```


/projects/app1/Capfile

```
load '../Capfile'  
load 'config/deploy'
```

/projects/app2/Capfile

```
load '../Capfile'  
load 'config/deploy'
```

bestpractices

- ~ Multistage-ext -- A Must !
- ~ Use remote cache -- If you can
- ~ Make sure you co code locally
- ~ publickeys -- if you wish to live longer
- ~ Dry up your configs

roll your own strategy



```

require 'cap/strategy/base'
module CI
  module Deploy
    module Strategy
      class Promote < CI::Deploy::Strategy::Base
        def deploy!
          # Prepare
          prepare
          # Push zip to prod servers
          find_servers( :roles => current_task.options[:roles] ).each do |server|
            Sync::rsync( :from => loc_tar_file_name,
                        :to => "#{configuration[:user]}@#{server}:#{rmt_tar_file_name}" )
          end
          # decompress archive into remote release dir
          decompress( release_dir, remote_tar_file_name )
        end
        def check!
          depend :local, :directory, "/tmp/depot"
          depend :remote, :directory, "/tmp/deploy"
        end
      end
    end
  end
end
end
end

```

```
module CI
  module Deploy
    module Strategy
      def self.new(strategy, config={})
        strategy_file = "cap/strategy/#{strategy}"
        require(strategy_file)
        strategy_const = strategy.to_s.capitalize.gsub(/_(.)/) { $1.upcase }
        if const_defined?(strategy_const)
          const_get(strategy_const).new(config)
        else
          raise Capistrano::Error,
            "could not find `#{name}::#{strategy_const}` in `#{strategy_file}`"
        end
      rescue LoadError
        raise Capistrano::Error,
          "could not find any strategy named `#{strategy}`"
      end
    end
  end
end
end
```


Capfile

```
require 'cap/strategy/strategies'

set :strategy, { CI::Deploy::Strategy.new(deploy_via, self) }
set :deploy_via, :promote
```

roll your own tasks



cap/mailer/recipes.rb

```
Capistrano::Configuration.instance.load do
  set :mailer_settings, {
    :address      => "mail.server",
    :domain       => "pinkymouse.com",
    :port         => 25,
    :authentication => :plain,
    :user_name    => "pinky",
    :password     => "secret" }
  set :mailer_from, "otto@bmatic"
  set :mailer_to, %w( barney@pinkymouse.com )
  set :mailer_type, :sendmail

  namespace :mailer do
    desc "Send out deployment notice"
    task :dispatch, :roles => :app do
      cast_emails
    end
    ....
  end
end
```

Capfile

```
require 'cap/mailer/recipes'

# Mailer config
set :mailer_from, "otto@bmatic"
set :mailer_to    , ["fernand@bmatic", ... ]
...
after :deploy do
  mailer.notify
end
```

announcement...

capote

A deployment landscape Management Console



incolddeploy



CONSOLE | EXPANDED VIEW

D	R	L	MI_ENTERPRISE	staging
D	R	L	MI_ENTERPRISE	production
D	R	L	MI_ENTERPRISE	beta
D	R	L	FINANCIAL_INTELLECT	staging
D	R	L	FINANCIAL_INTELLECT	production
D	R	L	FINANCIAL_INTELLECT	production



DRL MI_ENTERPRISE

staging

DRL MI_ENTERPRISE

production

DRL MI_ENTERPRISE

beta

DRL FINANCIAL_INTELLECT

staging

Port	Pid	Processor (%)	Memory (%)	Started on
8001	15945	0.0	1.6	Wed Aug 22 22:06:31 2007
8002	15948	0.0	1.6	Wed Aug 22 22:06:31 2007

Host: X.X.X.X
Last deployed: Aug 17 19:25
Path: /ci/rails/financial_intellect/current
Revision: 5937
Releases: 5

⚡ COLD DEPLOY | DEPLOY | ROLLBACK | START | STOP | RESTART | PENDING | CLEANUP

DRL FINANCIAL_INTELLECT

production

Port	Pid	Processor (%)	Memory (%)	Started on
8001	29968	0.1	6.2	Mon Sep 10 23:05:45 2007
8002	29971	0.1	6.3	Mon Sep 10 23:05:45 2007
8003	29974	0.1	6.3	Mon Sep 10 23:05:46 2007
8004	29978	0.1	6.4	Mon Sep 10 23:05:46 2007
8005	29982	0.1	6.2	Mon Sep 10 23:05:46 2007
8006	29986	0.1	6.4	Mon Sep 10 23:05:46 2007
8007	29990	0.1	6.2	Mon Sep 10 23:05:46 2007
8008	29994	0.1	6.2	Mon Sep 10 23:05:47 2007

Host: X.X.X.X
Last deployed: Jul 20 01:18
Path: /ci/rails/financial_intellect/current
Revision: 5466
Releases: 4

⚡ COLD DEPLOY | DEPLOY | ROLLBACK | START | STOP | RESTART | PENDING | CLEANUP

DRL FINANCIAL_INTELLECT

production

references

- ~ Jamis Buck
<http://weblog.jamisbuck.org/>
- ~ Capistrano Forum
<http://groups.google/group/capistrano>
- ~ Webistrano – Jonathan Weiss
<http://blog.innerewut.de/webistrano>
- ~ Capote – <http://liquidrail.com>

questions?



Legge 626: L'apoteosi