

Cheat Sheet CAPISTRANO 1.2.0

Helper Methods

runTakes a single string identifying any valid shell command to execute

run <<-CMD if [[-d #{release_path}/status.txt]]; then cat #{release_path}/status.txt

Exactly like the run command, except that it executes the command via sudo

sudo "apachectl graceful"

put
Lets you transfer data to a file on the remote
host. Takes two parameters: a string containing
the data to transfer, and the name of the file to
receive the data on each remote host

put(File.read('templates/database.yml'
), "#{release_path}/config/database.yml
",:mode => 0444)

delete
A convenience for executing rm via run. It just attempts to do a rm -f on the remote server(s), for the named file. To do a recursive delete, pass: recursive => true delete "#{release_path}/certs",
:recursive => true

on_rollback
Allows a task to specify a callback to use if that task raises an exception when invoked inside of a transaction

task :update_code do
 on_rollback { delete release_path,
:recursive => true }

:scm

end
render
An interface for rendering ERb* templates and returning the result. If you pass a string to render, it is interpreted as the name of a template file with .rhtml appended, relative either to the current directory, or to capistrano/recipes/templates to be rendered. If you don't want to render a file, but instead have a string containing an ERb template that you want to render, use the second example below
"Embedded Ruby"

render "maintenance' render :template => "Hello <%= target
%>", :target => "world"

application (required)

config/deploy.rb

```
tetting and using variables
  set :application, "flipper"
2 set :user, "homersimpson"
5 puts "The application name is
#(amplication)
 puts "The user is #{user}"
```

Redefining the restart task

1 desc "This task restarts the web server"

2 task :restart, :roles => :app do

3 sudo "apachectl graceful"

end

Defining tasks
1 task :hello world do
2 run "echo Hello, \$HOSTNAME"

task :hello_world, :roles =>
[:db, :app] do
 puts "calling hello_world..."
hello_world

Transactions

task :cold deploy do transaction do task_one here task_two_here task_three_not_in_transaction

Capturing output with run
1 run "sudo ls -la" do |channel,
stream, data|
2 if data =- / Password:/
3 logger.info "#(channel[:host])
asked for password"
4 channel.send_data "mypass\n"
5 end
6 end

with their values

EXAMPLE TEMPLATE
put buffer,
"path/to/save/file.txt",
:mode => 0755

The name of your application. Used to build other values, like the

Directory structure

releases !- - i 20050725121411 -- 20050801090107 -- 20050802231414 **a** 20050824141402 ¦- - □ Rakefile ¦- - 🛅 app -- config !- - 🛅 db !- - 🛅 lib -- log->/shared/log ¦- - 🚞 public -- m system->/shared/system -- in script :- - intest -- invendor ishared -- i log --- i system current->/releases/20050824141402

Capistrano Shell

Start the interactive Capistrano shell

Execute Capistrano tasks

!deploy !update_code symlink !setup deploy on app2.foo.com !setup with app,db !setup deploy



Shell commands

Installation

gem install capistrano

Add your application to Capistrano (capistranize) cap --apply-to /path/to/your/app

YourApplicationName

Execute the setup task

rake remote: exec ACTION=setup

Execute the cold_deploy task

rake remote: exec ACTION=cold deploy

Deploy your application rake deploy

Rollback a release from production

rake rollback

Execute the disable_web task

rake remote_exec_ACTION=disable_web \ UNTIL="tomorrow morning" REASON="vital upgrade"

Using the invoke task

rake remote_exec ACTION=invoke \ COMMAND="svn up /u/apps/flipper/current/app/views" \ ROLES=app

Roles

1 role :web., "www.capistrano.com" "appl.capistrano.com", 2 role :app. "app2.capistrano.com" 3 role :db•, "master.capistrano.com"

:primary => true 4 role :db•, "slave.capistrano.com" "genghis.capistrano.com

standard, predefined roles user-defined roles

Pre-defined variables

deployment directory. :repository (required) The location of your code's scm repository The address of the server to use as a gateway. If given, all other gateway connections will be tunneled through this server The name of the user to use when logging into the remote host(s) : 11ser (current user) password (prompted) The password to use for logging into the remote host(s). "/u/apps/#{app The root of the directory tree on the remote host(s) that the :deploy_to application should be deployed to lication}

version dir "releases" The directory under ${\tt deploy_to}$ that should contain each deployed revision

:current dir "current" The name to use (relative to deploy_to) for the symlink that points at the current release

shared_dir "shared" The name of the directory under deploy_to that will contain directories and files to be shared between all releases :revision

(latest revision) This specifies the revision you want to check out on the remote machines The source control module to use. Current supported are :subversion

:subversion, :cvs, :darcs :svn, :cvs, (path) The location on the remote host of the source control executable

:darcs checkout The subversion operation to use when checking out code on the

remote host. Can be set to "export" :ssh options Hash.new Hash of additional options passed to the SSH connection routine. This lets you set (among other things) a non-standard port to

connecton (ssh_options[:port] = 2345) :use sudo Whether or not tasks that can use sudo, ought to use sudo. In a shared environment, this is typically not desirable (or possible),

and in that case you should set this variable to false

:sudo sets the path to sudo

Standard tasks

cleanup cleans up the releases directory, leaving the five most recent releases

cold deploy used when deploying an application for the first time. Starts the application's spinner (via the spinner task) and then does a normal deploy

deploy updates all the code on your server (via update_code and symlink tasks), then restarts the FastCGI listeners on the application servers (via the restart task).

diff_from_last_ prints the difference between what was last deployed, and what is deploy currently in your repository

•disable web puts up a static maintenance page that is displayed to visitors enable web removes the maintenance page

invoke allows you to send commands directly

migrate changes to the directory of your current release (as indicated by the current symlink), and runs rake RAILS_ENV=production migrate

 $\textbf{restart} \ \ \text{restarts all FastCGI listeners for your application by calling the} \ \textbf{reaper}$ command without arguments. Only executed on : app servers rollback rolls your application back to the previously deployed version

rollback_code determines the previous release, updates the current symlink to point to that, and then deletes the latest release

setup Creates and chmods the directory tree:

releases path directory 0775 shared path directory shared_path/system shared_path/log 0777

show tasks inspect the existing tasks and display them to standard out in alphabetical order, along with their descriptions

spinner starts the spinner process for your application

• symlink updates the current symlink to the latest deployed version of the code

•update code Checks out your source code, deletes the log and public/system directories in your new release, symlinks log to

#{shared_path}/log,symlinkspublic/systemto #{shared_path}/system

task already has a defined on_rollback handler when using transactions



