
fabric_colors Documentation

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DB PACKAGE

1.1 db Package

`fabric_colors.db.sphinx_sanity_check()`

This is where our database fabric functions exist.

1.2 mongodb Module

`fabric_colors.db.mongodb.initializer`

Enable initializer for mongodb

`fabric_colors.db.mongodb.install`

Install mongodb and start it if it isn't running.

`fabric_colors.db.mongodb.installed`

Check if mongodb is installed.

`fabric_colors.db.mongodb.restart`

Restart mongodb

`fabric_colors.db.mongodb.start`

Start mongodb

`fabric_colors.db.mongodb.status`

Is mongodb already running?

`fabric_colors.db.mongodb.stop`

Stop mongodb

1.3 postgis Module

`fabric_colors.db.postgis.create_template`

`fabric_colors.db.postgis.install`

Distro-agnostic way of installing postgis2.

`fabric_colors.db.postgis.installed`

Distro-agnostic way of checking if postgis2 is installed.

1.4 postgresql Module

`fabric_colors.db.postgresql.chk_data_dir`
Distro-agnostic checking postgresql's data directory

`fabric_colors.db.postgresql.chk_db`
Checks if such a database exist.

`fabric_colors.db.postgresql.create_db`

`fabric_colors.db.postgresql.enable_postgis (*args, **kwargs)`

`fabric_colors.db.postgresql.initializer`
Distro-agnostic: set up initializations script for postgresql

`fabric_colors.db.postgresql.install`
Distro-agnostic way of installing postgresql.

`fabric_colors.db.postgresql.installed`
Distro-agnostic way of checking if postgresql is installed.

`fabric_colors.db.postgresql.pg_hba_conf (*args, **kwargs)`
Set our `pg_hba.conf` to our preferred defaults.

`fabric_colors.db.postgresql.postgresql_conf (*args, **kwargs)`
In `postgresq.conf`, toggle listen to `*` or specific IP or commented out

`fabric_colors.db.postgresql.restart`
Distro-agnostic: restart postgresql

`fabric_colors.db.postgresql.setup_data_dir`
Distro-agnostic: set up postgresql data directory

`fabric_colors.db.postgresql.start`
Distro-agnostic: start postgresql

`fabric_colors.db.postgresql.status`
Distro-agnostic checking postgresql status

`fabric_colors.db.postgresql.stop`
Distro-agnostic: stop postgresql

DEPLOY PACKAGE

2.1 deploy Package

`fabric_colors.deploy.deploy`

Usage: *fab -R all deploy* or *fab -H mysite.com deploy*. Execute a deployment to the given groups of hosts or host

`fabric_colors.deploy.pip_package_preinstall (*args, **kwargs)`

Preinstall packages listed in `package_exceptions` if they are found in `requirements.txt`! Packages listed in `package_exceptions` need to have their `setup.py` executed beforehand.

`fabric_colors.deploy.pip_requirements`

Usage: *fab -R all deploy.pip_requirements*. Install the required python packages from the `requirements.txt` file using `pip`

`fabric_colors.deploy.prepare_deploy_env (target)`

Make sure that we have the release directories before executing deployment.

`fabric_colors.deploy.test_host_check`

Usage: *fab -R all deploy.test_host_check* or *fab -H mysite.com deploy.test_host_check*

2.2 git Module

`fabric_colors.deploy.git.git_archive_and_upload_tar`

Create an archive from the current git branch and upload it to target machine.

`fabric_colors.deploy.git.git_branch_check`

Usage: *fab -R all deploy.git_branch_check*. Check that we are on master branch before permitting deploy

2.3 releases Module

`fabric_colors.deploy.releases.cleanup`

Usage: *fab -R all releases.cleanup*. Ensure that target node only has *n* most recent deployed directories, where *n* by default is 10 but can be overridden by that node's settings in `fabsettings`.

`fabric_colors.deploy.releases.manage_release (description='', disable_newrelic=False)`

Helper function to annotate `env.release` and `env.release_notes`; and optionally update `env.newrelic` and register event on newrelic.

`fabric_colors.deploy.releases.showlist`

Usage: *fab -R all releases.showlist*. Returns a list of deploy directories.

`fabric_colors.deploy.releases.symlink_check`

Usage: *fab -R all releases.symlink_check*. Check the hash pointing to the current symlink.

`fabric_colors.deploy.releases.symlink_current`

Usage: *fab -R all releases.symlink_current*. Symlink our current release.

ARCH PACKAGE

3.1 arch Package

3.2 postgis Module

3.3 postgresql Module

MAC PACKAGE

4.1 `postgis` Module

4.2 `postgresql` Module

DISTRO PACKAGE

5.1 distro Package

`fabric_colors.distro.distro`

Usage: *fab -R all distro*. Determine the distro of given target host(s).

5.2 server Module

`fabric_colors.distro.server.chk_exists`

Usage: *fab -R dev server.chk_exists:path*. Returns 1 or empty string.

`fabric_colors.distro.server.get_ownership`

Usage: *fab -R all server.get_ownership*. Given a path, and the target node, return owner and group for that directory

`fabric_colors.distro.server.groupadd`

Usage: *fab -R dev server.groupadd:sudo*. Adds the given group.

`fabric_colors.distro.server.groups`

Usage: *fab -R dev server.groups*. Returns available groups.

`fabric_colors.distro.server.initializers`

Shows us which are the services that will be initialized automatically after a reboot.

`fabric_colors.distro.server.setup`

Usage: *fab -R all server.setup*. Runs all scripts as given username, in sudo mode, on the target server.

`fabric_colors.distro.server.setup_base`

Usage: *fab -R dev server.setup_base*. Installs the base requirements.

`fabric_colors.distro.server.setup_python`

Usage: *fab -R all server.setup_python*. Sets up the python environment

`fabric_colors.distro.server.show_sudo_users_and_groups (ug, nopasswd)`

Helper function that prints out users and groups with sudo (or no passwd sudo) rights.

`fabric_colors.distro.server.ssh_copy_id`

Usage: *fab -R all server.ssh_copy_id*. Add local machine's public key to target's username

`fabric_colors.distro.server.sudo_users_and_groups`

Usage: *fab -R dev server.sudo_users_and_groups:nopasswd*. `nopasswd(optional)=True/False`.

`fabric_colors.distro.server.useradd`

Usage: *fab -R all server.useradd:web*. Create user given the user name & target machine.

`fabric_colors.distro.server.userchk`

Usage: *fab -R all server:userchk:web*. Check if the given user name is available on the given target host(s).

`fabric_colors.distro.server.userdel`

Usage: *fab -R all server:userdel:web*. Delete user & its home directory given the user name & target machine.

`fabric_colors.distro.server.usersudo`

Usage: *fab -R dev server:usersudo:user,sudogroup*. Adds deploying user to the given sudo group.

`fabric_colors.distro.server.visudo`

Usage: *fab -R all server:visudo:sudogroup*. Enable the given sudo group in /etc/sudoers programmatically.

This is the same as typing *visudo* and manually commenting out a commented line for the group so it has ALL=(ALL) ALL access rights, i.e. sudo rights.

5.3 Subpackages

5.3.1 arch Package

`arch` Package

`postgis` Module

`postgresql` Module

5.3.2 mac Package

`postgis` Module

`postgresql` Module

ENVIRONMENT PACKAGE

6.1 environment Package

`fabric.colors.environment.set_target_env(f)`

decorator function that dynamically sets the current host's env variables using `_env_set(target)`

Usage on a fabric function:

```
@set_target_env
def host_type():
    run('uname -s')
```


MONITOR PACKAGE

7.1 newrelic Module

`fabric_colors.monitor.newrelic.newrelic`

Check if newrelic is sending data to rpm.newrelic.com's data collector

`fabric_colors.monitor.newrelic.record_deploy`

values is a dictionary containing key and value. Equivalent of this example (please use the correct API key of course) `curl -H "x-api-key:f55da53a178959f9130381396b2172ac5e26cfa2383503c" -d "deployment[application_id]=2142298" -d "deployment[host]=localhost" -d "deployment[description]=This deployment was sent using curl" -d "deployment[revision]=1242" -d "deployment[changelog]=many hands make light work" -d "deployment[user]=Calvin Cheng" https://rpm.newrelic.com/deployments.xml`

FABRIC_COLORS PACKAGE

8.1 fabric_colors Package

8.2 _version Module

8.3 main Module

`fabric_colors.main.main()`
Main command-line execution loop.

8.4 quickstart Module

`fabric_colors.quickstart.create_fabfile(project_root)`
Creates a `fabfile.py` in the given `project_root` if it does not exist.

`fabric_colors.quickstart.quickstart()`
Run *fabc-quickstart* in your console to get started with fabric-colors!

`fabric_colors.quickstart.specify_nodes(name, nodes)`
Accepts the name of a new node and a dictionary of existing nodes. Returns the new node with user-provided domain name and ip address and a dictionary of all nodes.

8.5 Subpackages

8.5.1 db Package

db Package

`fabric_colors.db.sphinx_sanity_check()`
This is where our database fabric functions exist.

mongodb Module

`fabric_colors.db.mongodb.initializer`
Enable initializer for mongodb

`fabric_colors.db.mongodb.install`
Install mongodb and start it if it isn't running.

`fabric_colors.db.mongodb.installed`
Check if mongodb is installed.

`fabric_colors.db.mongodb.restart`
Restart mongodb

`fabric_colors.db.mongodb.start`
Start mongodb

`fabric_colors.db.mongodb.status`
Is mongodb already running?

`fabric_colors.db.mongodb.stop`
Stop mongodb

postgis Module

`fabric_colors.db.postgis.create_template`

`fabric_colors.db.postgis.install`
Distro-agnostic way of installing postgis2.

`fabric_colors.db.postgis.installed`
Distro-agnostic way of checking if postgis2 is installed.

postgresql Module

`fabric_colors.db.postgresql.chk_data_dir`
Distro-agnostic checking postgresql's data directory

`fabric_colors.db.postgresql.chk_db`
Checks if such a database exist.

`fabric_colors.db.postgresql.create_db`

`fabric_colors.db.postgresql.enable_postgis(*args, **kwargs)`

`fabric_colors.db.postgresql.initializer`
Distro-agnostic: set up initializations script for postgresql

`fabric_colors.db.postgresql.install`
Distro-agnostic way of installing postgresql.

`fabric_colors.db.postgresql.installed`
Distro-agnostic way of checking if postgresql is installed.

`fabric_colors.db.postgresql.pg_hba_conf(*args, **kwargs)`
Set our pg_hba.conf to our preferred defaults.

`fabric_colors.db.postgresql.postgresql_conf(*args, **kwargs)`
In postgresq.conf, toggle listen to * or specific IP or commented out

`fabric_colors.db.postgresql.restart`
Distro-agnostic: restart postgresql

`fabric_colors.db.postgresql.setup_data_dir`
Distro-agnostic: set up postgresql data directory

`fabric_colors.db.postgresql.start`
Distro-agnostic: start postgresql

`fabric_colors.db.postgresql.status`
Distro-agnostic checking postgresql status

`fabric_colors.db.postgresql.stop`
Distro-agnostic: stop postgresql

8.5.2 deploy Package

deploy Package

`fabric_colors.deploy.deploy`
Usage: *fab -R all deploy* or *fab -H mysite.com deploy*. Execute a deployment to the given groups of hosts or host

`fabric_colors.deploy.pip_package_preinstall` (*args, **kwargs)
Preinstall packages listed in package_exceptions if they are found in requirements.txt! Packages listed in package_exceptions need to have their setup.py executed beforehand.

`fabric_colors.deploy.pip_requirements`
Usage: *fab -R all deploy.pip_requirements*. Install the required python packages from the requirements.txt file using pip

`fabric_colors.deploy.prepare_deploy_env` (target)
Make sure that we have the release directories before executing deployment.

`fabric_colors.deploy.test_host_check`
Usage: *fab -R all deploy.test_host_check* or *fab -H mysite.com deploy.test_host_check*

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`fabric_colors.deploy.git.git_archive_and_upload_tar`
Create an archive from the current git branch and upload it to target machine.

`fabric_colors.deploy.git.git_branch_check`
Usage: *fab -R all deploy.git_branch_check*. Check that we are on master branch before permitting deploy

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`fabric_colors.deploy.releases.cleanup`
Usage: *fab -R all releases.cleanup*. Ensure that target node only has *n* most recent deployed directories, where *n* by default is 10 but can be overridden by that node's settings in fabsettings.

`fabric_colors.deploy.releases.manage_release` (description='', disable_newrelic=False)
Helper function to annotate env.release and env.release_notes; and optionally update env.newrelic and register event on newrelic.

`fabric_colors.deploy.releases.showlist`
Usage: *fab -R all releases.showlist*. Returns a list of deploy directories.

`fabric_colors.deploy.releases.symlink_check`
Usage: *fab -R all releases.symlink_check*. Check the hash pointing to the current symlink.

`fabric_colors.deploy.releases.symlink_current`
Usage: *fab -R all releases.symlink_current*. Symlink our current release.

8.5.3 distro Package

distro Package

`fabric_colors.distro.distro`

Usage: *fab -R all distro*. Determine the distro of given target host(s).

server Module

`fabric_colors.distro.server.chk_exists`

Usage: *fab -R dev server.chk_exists:path*. Returns 1 or empty string.

`fabric_colors.distro.server.get_ownership`

Usage: *fab -R all server.get_ownership*. Given a path, and the target node, return owner and group for that directory

`fabric_colors.distro.server.groupadd`

Usage: *fab -R dev server.groupadd:sudo*. Adds the given group.

`fabric_colors.distro.server.groups`

Usage: *fab -R dev server.groups*. Returns available groups.

`fabric_colors.distro.server.initializers`

Shows us which are the services that will be initialized automatically after a reboot.

`fabric_colors.distro.server.setup`

Usage: *fab -R all server.setup*. Runs all scripts as given username, in sudo mode, on the target server.

`fabric_colors.distro.server.setup_base`

Usage: *fab -R dev server.setup_base*. Installs the base requirements.

`fabric_colors.distro.server.setup_python`

Usage: *fab -R all server.setup_python*. Sets up the python environment

`fabric_colors.distro.server.show_sudo_users_and_groups` (*ug, nopasswd*)

Helper function that prints out users and groups with sudo (or no passwd sudo) rights.

`fabric_colors.distro.server.ssh_copy_id`

Usage: *fab -R all server.ssh_copy_id*. Add local machine's public key to target's username

`fabric_colors.distro.server.sudo_users_and_groups`

Usage: *fab -R dev server.sudo_users_and_groups:nopasswd*. *nopasswd(optional)=True/False*.

`fabric_colors.distro.server.useradd`

Usage: *fab -R all server.useradd:web*. Create user given the user name & target machine.

`fabric_colors.distro.server.userchk`

Usage: *fab -R all server.userchk:web*. Check if the given user name is available on the given target host(s).

`fabric_colors.distro.server.userdel`

Usage: *fab -R all server.userdel:web*. Delete user & its home directory given the user name & target machine.

`fabric_colors.distro.server.usersudo`

Usage: *fab -R dev server.usersudo:user,sudogroup*. Adds deploying user to the given sudo group.

`fabric_colors.distro.server.visudo`

Usage: *fab -R all server.visudo:sudogroup*. Enable the given sudo group in /etc/sudoers programmatically.

This is the same as typing *visudo* and manually commenting out a commented line for the group so it has ALL=(ALL) ALL access rights, i.e. sudo rights.

Subpackages

arch Package

arch Package

postgis Module

postgresql Module

mac Package

postgis Module

postgresql Module

8.5.4 environment Package

environment Package

`fabric_colors.environment.set_target_env(f)`
decorator function that dynamically sets the current host's env variables using `_env_set(target)`

Usage on a fabric function:

```
@set_target_env
def host_type():
    run('uname -s')
```

8.5.5 monitor Package

newrelic Module

`fabric_colors.monitor.newrelic.newrelic`
Check if newrelic is sending data to `rpm.newrelic.com`'s data collector

`fabric_colors.monitor.newrelic.record_deploy`
values is a dictionary containing key and value. Equivalent of this example (please use the correct API key of course) `curl -H "x-api-key:f55da53a178959f9130381396b2172ac5e26cfa2383503c" -d "deployment[application_id]=2142298" -d "deployment[host]=localhost" -d "deployment[description]=This deployment was sent using curl" -d "deployment[revision]=1242" -d "deployment[changelog]=many hands make light work" -d "deployment[user]=Calvin Cheng" https://rpm.newrelic.com/deployments.xml`

8.5.6 tests Package

tests Package

`class fabric_colors.tests.testFabricColors (methodName='runTest')`
Bases: `unittest.case.TestCase`

dummyTest ()

setUp ()

Set up data used in the tests. setUp is called before each test function execution.

8.5.7 utilities Package

utilities Package

`fabric_colors.utilities.chk_req()`

Usage: *fab chk_req*. Check if the current requirements.txt file matches what is in user's virtualenv. Returns True or False.

`fabric_colors.utilities.info`

Usage: *fab -R dev info*. Show env details of target host "dev".

backups Module

`fabric_colors.utilities.backups.media_backup(target='localhost', local_path=None)`

Usage: *fab media_backup:dev fab media_backup:dev/path/to/backup/folder/*. Backups the target's static files to local. Backup path defaults to [cwd]/backups/static/[target]/.

`fabric_colors.utilities.backups.mysql_db`

usage: *fab -r <server_name> backups.mysql_db /path/to/backup/folder/* backups the target's database to local destination. backup path defaults to /backups/db/[target]/. 1. creates the target folder if doesnt exists 2. by default keeps 30 days of backups

`fabric_colors.utilities.backups.postgres_backup(target, local_path=None)`

Usage: *fab postgres_backup:dev fab postgres_backup:dev/path/to/backup/folder/*. Backups the target's database to local. Backup path defaults to [cwd]/backups/db/[target]/.

django Module

`fabric_colors.utilities.django.collectstatic`

Usage: *fab -R dev django.collectstatic*. Run *python manage.py collectstatic* on specified target.

`fabric_colors.utilities.django.compilemessages`

Usage: *fab -R dev django.compilemessages*. Run *python manage.py compilemessages* on specified target.

`fabric_colors.utilities.django.create_public`

Usage: *fab -R dev django.create_public*. Create public directory for django media and static files in our local-host.

`fabric_colors.utilities.django.makemessages`

Usage: *fab -R dev django.makemessages:de*. Run *python manage.py makemessages* on specified target and language

emails Module

`fabric_colors.utilities.emails.email_on_success(*args, **kwargs)`

8.5.8 virtualenv Package

virtualenv Package

`fabric_colors.virtualenv.chkvirtualenv`

Usage: *fab -R dev chkvirtualenv*. Check that we have the virtualenv for our project on the target machine.

`fabric_colors.virtualenv.lsvirtualenv`

Usage: *fab -R dev lsvirtualenv*. List all virtualenvs.

`fabric_colors.virtualenv.mkvirtualenv`

Usage: *fab -R all mkvirtualenv*. Create the virtualenv for our project on the target machine.

`fabric_colors.virtualenv.rmvirtualenv`

Usage: *fab -R dev rmvirtualenv:name_of_virtualenv*.

8.5.9 webserver Package

webserver Package

`fabric_colors.webserver.initializer`

Wrapper initializer

`fabric_colors.webserver.webserver`

command=start/stop/restart/restart_violent; defaults to graceful 'restart' newrelic(optional)=True/False. Wrapper function that restarts the webserver that is current in-use. Defaults to uwsgi.

nginx Module

`fabric_colors.webserver.nginx.initializer`

Enable initializer for nginx

`fabric_colors.webserver.nginx.install`

Install nginx and start it if it isn't running.

`fabric_colors.webserver.nginx.installed`

Check if nginx is installed.

`fabric_colors.webserver.nginx.restart`

Restart nginx

`fabric_colors.webserver.nginx.start`

Start nginx

`fabric_colors.webserver.nginx.status`

Is nginx already running?

`fabric_colors.webserver.nginx.stop`

Stop nginx

uwsgi Module

`fabric_colors.webserver.uwsgi.initializer`

Check if host has the current project's uwsgi initializer. If not, create it.

`fabric_colors.webserver.uwsgi.replace_all` (*text, dic*)

`fabric_colors.webserver.uwsgi.uwsgi`

Usage: `fab -R all uwsgi:command.`
newrelic(optional)=True/False.

command=start/stop/restart/restart_violent/status,

TESTS PACKAGE

9.1 tests Package

```
class fabric_colors.tests.testFabricColors (methodName='runTest')
    Bases: unittest.case.TestCase
    dummyTest ()
    setUp ()
        Set up data used in the tests. setUp is called before each test function execution.
```


UTILITIES PACKAGE

10.1 utilities Package

`fabric_colors.utilities.chk_req()`

Usage: *fab chk_req*. Check if the current requirements.txt file matches what is in user's virtualenv. Returns True or False.

`fabric_colors.utilities.info`

Usage: *fab -R dev info*. Show env details of target host "dev".

10.2 backups Module

`fabric_colors.utilities.backups.media_backup(target='localhost', local_path=None)`

Usage: *fab media_backup:dev fab media_backup:dev,/path/to/backup/folder/*. Backups the target's static files to local. Backup path defaults to [cwd]/backups/static/[target]/.

`fabric_colors.utilities.backups.mysql_db`

usage: *fab -r <server_name> backups.mysql_db /path/to/backup/folder/* backups the target's database to local destination. backup path defaults to /backups/db/[target]/. 1. creates the target folder if doesnt exists 2. by default keeps 30 days of backups

`fabric_colors.utilities.backups.postgres_backup(target, local_path=None)`

Usage: *fab postgres_backup:dev fab postgres_backup:dev,/path/to/backup/folder/*. Backups the target's database to local. Backup path defaults to [cwd]/backups/db/[target]/.

10.3 django Module

`fabric_colors.utilities.django.collectstatic`

Usage: *fab -R dev django.collectstatic*. Run *python manage.py collectstatic* on specified target.

`fabric_colors.utilities.django.compilemessages`

Usage: *fab -R dev django.compilemessages*. Run *python manage.py compilemessages* on specified target.

`fabric_colors.utilities.django.create_public`

Usage: *fab -R dev django.create_public*. Create public directory for django media and static files in our local-host.

`fabric_colors.utilities.django.makemessages`

Usage: *fab -R dev django.makemessages:de*. Run *python manage.py makemessages* on specified target and language

10.4 emails Module

`fabric_colors.utilities.emails.email_on_success(*args, **kwargs)`

VIRTUALENV PACKAGE

11.1 virtualenv Package

`fabric_colors.virtualenv.chkvirtualenv`

Usage: *fab -R dev chkvirtualenv*. Check that we have the virtualenv for our project on the target machine.

`fabric_colors.virtualenv.lsvirtualenv`

Usage: *fab -R dev lsvirtualenv*. List all virtualenvs.

`fabric_colors.virtualenv.mkvirtualenv`

Usage: *fab -R all mkvirtualenv*. Create the virtualenv for our project on the target machine.

`fabric_colors.virtualenv.rmvirtualenv`

Usage: *fab -R dev rmvirtualenv:name_of_virtualenv*.

WEBSERVER PACKAGE

12.1 webserver Package

`fabric_colors.webserver.initializer`
Wrapper initializer

`fabric_colors.webserver.webserver`
command=start/stop/restart/restart_violent; defaults to graceful 'restart' newrelic(optional)=True/False. Wrapper function that restarts the webserver that is current in-use. Defaults to uwsgi.

12.2 nginx Module

`fabric_colors.webserver.nginx.initializer`
Enable initializer for nginx

`fabric_colors.webserver.nginx.install`
Install nginx and start it if it isn't running.

`fabric_colors.webserver.nginx.installed`
Check if nginx is installed.

`fabric_colors.webserver.nginx.restart`
Restart nginx

`fabric_colors.webserver.nginx.start`
Start nginx

`fabric_colors.webserver.nginx.status`
Is nginx already running?

`fabric_colors.webserver.nginx.stop`
Stop nginx

12.3 uwsgi Module

`fabric_colors.webserver.uwsgi.initializer`
Check if host has the current project's uwsgi initializer. If not, create it.

`fabric_colors.webserver.uwsgi.replace_all` (*text, dic*)

`fabric_colors.webserver.uwsgi.uwsgi`

Usage: *fab -R all uwsgi:command.*
newrelic(optional)=True/False.

command=start/stop/restart/restart_violent/status,

INDICES AND TABLES

- *genindex*
- *modindex*
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