AutoJenkins Documentation

Release 0.5.4

Carles Barrobés

May 11, 2012

CONTENTS

AutoJenkins is a tool to automate or remote-control Jenkins. You can e.g. create and delete build jobs, trigger builds, read latest build results, etc.

Contents:

ONE

INTRODUCTION TO AUTOJENKINS

AutoJenkins was written to handle automation (remote control) of Jenkins tasks. Includes a class autojenkins.Jenkins that you can use to drive Jenkins.

Things you can do with it:

- Copy a job (e.g. from a template job)
- Delete a job
- Obtain the config.xml file for that job
- Trigger building of a job
- · Obtain latest execution results
- ...

AutoJenkins may be used as an API or as a command-line tool.

1.1 AutoJenkins as API

Sample use:

build

```
j.build('my-new-job')
# check result and delete if successful:
result = j.last_result('my-new-job')['result']
if result == 'SUCCESS':
    j.delete('my-new-job')
```

1.2 AutoJenkins from the Command Line

Available commands:

- ajk-list list all jobs in a server
- ajk-create create a job
- ajk-build start building a job
- ajk-delete delete a job

1.2.1 ajk-list

List all jobs in a Jenkins server. Each line in the output represents a job, and is colored according to the job's last build state:

- Blue: success
- Yellow: unstable
- Red: failure
- · Gray: not built

A * symbol next to a job name indicates that the job is being built right now.

If instead of colored output, you prefer a string stating the status of the build, use the --no-color option. This is useful if you e.g. want to pipe the output into a grep command that filters jobs depending on status.

```
$ ajk-list -h
Usage: ajk-list host
Run autojenkins to list all jobs.
Options:
    -h, --help show this help message and exit
    -n, --no-color do not use colored output
```

1.2.2 ajk-create

Create a job from a template job, replacing variables that use the django/jinja2 syntax {{ variable }}.

Usage help:

```
$ ajk-create -h
```

```
Usage: ajk-create host jobname [options]
```

```
Run autojenkins to create a job.

Options:

-h, --help show this help message and exit

-t TEMPLATE, --template=TEMPLATE

the template job to copy from

-D PROP=VALUE substitution variables for the template

-b, --build start a build right after creation
```

Sample command:

\$ ajk-create http://my.server my-job -t template -Dbranch=my-branch

1.2.3 ajk-delete

Delete a job from a Jenkins server.

Usage help: Usage: ajk-delete host [jobname] [options] Run autojenkins to delete a job. Options: -h, --help show this help message and exit

1.3 More Info

Sources can be found in Github at https://github.com/txels/autojenkins

AUTOJENKINS.JOBS

<pre>class autojenkins.jobs.Jenkins(base_url, auth=None) Main class to interact with a Jenkins server.</pre>
all_jobs () Get a list of tuples with (name, color) of all jobs in the server.
Color is blue, yellow or red depending on build results (SUCCESS, UNSTABLE or FAILED
build (<i>jobname</i>) Trigger Jenkins to build a job.
copy (<i>jobname</i> , <i>copy_from='template'</i>) Copy a job from another one (by default from one called template).
create (<i>jobname</i> , <i>config_file</i> , ** <i>context</i>) Create a job from a configuration file.
create_copy (<i>jobname, template_job, enable=True, **context</i>) Create a job from a template job.
delete (<i>jobname</i>) Delete a job.
disable (<i>jobname</i>) Trigger Jenkins to disable a job.
enable (<i>jobname</i>) Trigger Jenkins to enable a job.
get_config_xml (<i>jobname</i>) Get the config.xml file that contains the job definition.
job_info (jobname) Get all information for a job as a Python object (dicts & lists).
job_url (<i>jobname</i>) Get the human-browseable URL for a job.
last_build_info (<i>jobname</i>) Get information for last build of a job.
last_build_report (<i>jobname</i>) Get full report of last build.
last_result (<i>jobname</i>) Obtain results from last execution.

last_success (*jobname*) Return information about the last successful build.

transfer (*jobname*, *to_server*) Copy a job to another server.

Sources can be found at https://github.com/txels/autojenkins

CHAPTER

THREE

INDICES AND TABLES

- genindex
- modindex
- search

PYTHON MODULE INDEX

а

autojenkins.jobs,??