
AutoJenkins Documentation

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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.

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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:

```
from autojenkins import Jenkins

j = Jenkins('http://jenkins.pe.local')

# trigger a manual build and check results
j.build('warehouse-screens-us544_login')
j.last_result('warehouse-screens-us544_login')

# get only the result string (one of 'SUCCESS', 'UNSTABLE', 'FAILURE'):
j.last_result('warehouse-screens-us544_login')['result']

# get the configuration file for a job:
j.get_config_xml('template')

# Create a new job from a job named 'template', replacing variables
j.create_copy('my-new-job', 'template',
              repo='mbf-warehouse-screens',
              branch='us544_login',
              package='warehouse_screens')

# 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
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1.3 More Info

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

AUTOJENKINS . JOBS

```
class autojenkins.jobs.Jenkins (base_url, auth=None)
    Main class to interact with a Jenkins server.

    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 (jobname, wait=False, grace=10)
        Trigger Jenkins to build a job.

        Parameters wait – If True, wait until job completes building before returning

    copy (jobname, copy_from='template')
        Copy a job from another one (by default from one called template).

    create (jobname, config_file, **context)
        Create a job from a configuration file.

    create_copy (jobname, template_job, enable=True, **context)
        Create a job from a template job.

    delete (jobname)
        Delete a job.

    disable (jobname)
        Trigger Jenkins to disable a job.

    enable (jobname)
        Trigger Jenkins to enable a job.

    get_config_xml (jobname)
        Get the config.xml file that contains the job definition.

    is_building (jobname)
        Check if a job is building

    job_info (jobname)
        Get all information for a job as a Python object (dicts & lists).

    job_url (jobname)
        Get the human-browseable URL for a job.

    last_build_info (jobname)
        Get information for last build of a job.

    last_build_report (jobname)
        Get full report of last build.
```

last_result (*jobname*)

Obtain results from last execution.

last_success (*jobname*)

Return information about the last successful build.

set_config_xml (*jobname, config*)

Replace the `config.xml` of an existing job.

transfer (*jobname, to_server*)

Copy a job to another server.

wait_for_build (*jobname, poll_interval=3*)

Wait until job has finished building

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

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