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# **cdrouter.py Documentation**

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**QA Cafe**

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## Introduction

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cdrouter is a simple Python wrapper for the CDRouter Web API. <https://support.qacafe.com/cdrouter-web-api/>  
For more information on CDRouter, please visit <http://www.qacafe.com/>.

### 1.1 Download & Install

cdrouter is available on PyPI.

```
$ pip install -U cdrouter
```

### 1.2 Usage

```
import time
from cdrouter import CDRouter
from cdrouter.jobs import Job

c = CDRouter('http://localhost:8015', token='deadbeef')

for p in c.packages.list(filter=['tags@>{noretry}'], limit='none'):
    print('Launching package ' + p.name)

    j = c.jobs.launch(Job(package_id=p.id, extra_cli_args='-testvar myvar=example'))

    while j.result_id == None:
        time.sleep(1)
        j = c.jobs.get(j.id)

    print('    Result-ID: ' + j.result_id)

print('done.')
```



## 2.1 cdrouter

Python client for the CDRouter Web API.

## 2.2 cdrouter.CDRouter

**class** `cdrouter.CDRouter` (*base, token=None, insecure=False*)  
Service for accessing the CDRouter Web API.

**bulk\_copy** (*base, resource, ids, schema*)  
Send an authorized POST request to bulk copy a set of resources.

**bulk\_delete** (*base, resource, ids=None, filter=None, all=False*)  
Send an authorized POST request to bulk delete a set of resources.

**bulk\_edit** (*base, resource, fields, ids=None, filter=None, all=False, testvars=None*)  
Send an authorized POST request to bulk edit a set of resources.

**bulk\_export** (*base, ids, params=None*)  
Send an authorized GET request to bulk export a set of resources.

**create** (*base, resource*)  
Send an authorized POST request to create a new resource.

**delete** (*path, params=None*)  
Send an authorized DELETE request.

**delete\_id** (*base, id*)  
Send an authorized DELETE request to delete a resource by ID.

**edit** (*base, id, resource*)  
Send an authorized PATCH request to edit a resource.

**edit\_shares** (*base, id, user\_ids*)  
Send an authorized PATCH request to edit a resource's shares.

**export** (*base, id, format='gz', params=None*)  
Send an authorized GET request to export a resource.

**get** (*path, params=None, stream=None*)  
Send an authorized GET request.

**get\_id** (*base, id, params=None*)  
Send an authorized GET request to get a resource by ID.

**get\_shares** (*base, id*)  
Send an authorized GET request to get a resource's shares.

**list** (*base, filter=None, type=None, sort=None, limit=None, page=None, format=None*)  
Send an authorized GET request for a collection.

**patch** (*path, json, params=None*)  
Send an authorized PATCH request.

**post** (*path, json=None, data=None, params=None, files=None*)  
Send an authorized POST request.

## 2.3 cdrouter.configs.ConfigsService

**class** `cdrouter.configs.ConfigsService` (*service*)  
Service for accessing CDRouter Configs.

**bulk\_copy** (*ids*)  
Bulk copy a set of configs.

**bulk\_delete** (*ids=None, filter=None, all=False*)  
Bulk delete a set of configs.

**bulk\_edit** (*\_fields, ids=None, filter=None, all=False, testvars=None*)  
Bulk edit a set of configs.

**bulk\_edit\_testvars** (*id, testvars*)  
Bulk edit a config's testvars.

**bulk\_export** (*ids*)  
Bulk export a set of configs.

**check\_config** (*contents*)  
Process config contents with `cdrouter-cli -check-config`.

**create** (*resource*)  
Create a new config.

**delete** (*id*)  
Delete a config.

**delete\_testvar** (*id, name, group=None*)  
Delete a testvar in a config. Deleting a testvar unsets any explicitly configured value for it in the config.

**edit** (*resource*)  
Edit a config.

**edit\_shares** (*id, user\_ids*)  
Edit shares for a config.

**edit\_testvar** (*id, resource*)  
Edit a testvar in a config.

**export** (*id*)  
Export a config.

**get** (*id, format=None*)  
Get a config.



**get\_networks** (*contents*)  
Process config contents with `cdrouter-cli -print-networks-json`.

**get\_new** ()  
Get output of `cdrouter-cli -new-config`.

**get\_plaintext** (*id*)  
Get a config as plaintext.

**get\_shares** (*id*)  
Get shares for a config.

**get\_testvar** (*id, name, group=None*)  
Get a testvar from a config.

**list** (*filter=None, sort=None, limit=None, page=None*)  
Get a list of configs.

**list\_testvars** (*id*)  
Get a list of a config's testvars.

**upgrade\_config** (*contents*)  
Process config contents with `cdrouter-cli -upgrade-config`.

## 2.4 cdrouter.devices.DevicesService

**class** `cdrouter.devices.DevicesService` (*service*)  
Service for accessing CDRouter Devices.

**bulk\_copy** (*ids*)  
Bulk copy a set of devices.

**bulk\_delete** (*ids=None, filter=None, all=False*)  
Bulk delete a set of devices.

**bulk\_edit** (*\_fields, ids=None, filter=None, all=False*)  
Bulk edit a set of devices.

**bulk\_export** (*ids*)  
Bulk export a set of devices.

**create** (*resource*)  
Create a new device.

**delete** (*id*)  
Delete a device.

**edit** (*resource*)  
Edit a device.

**edit\_shares** (*id, user\_ids*)  
Edit shares for a device.

**export** (*id*)  
Export a device.

**get** (*id*)  
Get a device.

**get\_shares** (*id*)  
Get shares for a device.

**list** (*filter=None, sort=None, limit=None, page=None*)  
Get a list of devices.

## 2.5 cdrouter.jobs.JobsService

**class** `cdrouter.jobs.JobsService` (*service*)  
Service for accessing CDRouter Jobs.

**bulk\_delete** (*ids=None, filter=None, all=False*)  
Bulk delete a set of jobs.

**bulk\_launch** (*jobs=None, filter=None, all=False*)  
Bulk launch a set of jobs.

**delete** (*id*)  
Delete a job.

**edit** (*resource*)  
Edit a tag.

**get** (*id*)  
Get a job.

**launch** (*resource*)  
Launch a new job.

**list** (*filter=None, sort=None, limit=None, page=None*)  
Get a list of jobs.

## 2.6 cdrouter.packages.PackagesService

**class** `cdrouter.packages.PackagesService` (*service*)  
Service for accessing CDRouter Packages.

**analyze** (*id*)  
Get a list of tests that will be skipped for a package.

**bulk\_copy** (*ids*)  
Bulk copy a set of packages.

**bulk\_delete** (*ids=None, filter=None, all=False*)  
Bulk delete a set of packages.

**bulk\_edit** (*\_fields, ids=None, filter=None, all=False*)  
Bulk edit a set of packages.

**bulk\_export** (*ids*)  
Bulk export a set of packages.

**create** (*resource*)  
Create a new package.

**delete** (*id*)  
Delete a package.

**edit** (*resource*)  
Edit a package.

**edit\_shares** (*id*, *user\_ids*)  
 Edit shares for a package.

**export** (*id*)  
 Export a package.

**get** (*id*)  
 Get a package.

**get\_shares** (*id*)  
 Get shares for a package.

**list** (*filter=None*, *sort=None*, *limit=None*, *page=None*)  
 Get a list of packages.

## 2.7 cdrouter.results.ResultsService

**class** `cdrouter.results.ResultsService` (*service*)  
 Service for accessing CDRouter Results.

**all\_stats** ()  
 Compute stats for all results.

**bulk\_copy** (*ids*)  
 Bulk copy a set of results.

**bulk\_delete** (*ids=None*, *filter=None*, *all=False*)  
 Bulk delete a set of results.

**bulk\_edit** (*\_fields*, *ids=None*, *filter=None*, *all=False*)  
 Bulk edit a set of results.

**bulk\_export** (*ids*, *exclude\_captures=False*)  
 Bulk export a set of results.

**delete** (*id*)  
 Delete a result.

**download\_logdir\_archive** (*id*, *filename*, *format='zip'*, *exclude\_captures=False*)  
 Download logdir archive in tgz or zip format.

**edit** (*resource*)  
 Edit a result.

**edit\_shares** (*id*, *user\_ids*)  
 Edit shares for a result.

**export** (*id*, *exclude\_captures=False*)  
 Export a result.

**get** (*id*)  
 Get a result.

**get\_logdir\_file** (*id*, *filename*)  
 Download a logdir file.

**get\_shares** (*id*)  
 Get shares for a result.

**get\_test\_metric** (*id*, *name*, *metric*, *format=None*)  
 Get a test metric.

**get\_test\_metric\_csv** (*id, name, metric*)  
Get a test metric as CSV.

**list** (*filter=None, sort=None, limit=None, page=None*)  
Get a list of results.

**list\_csv** (*filter=None, sort=None, limit=None, page=None*)  
Get a list of results as CSV.

**list\_logdir** (*id, filter=None, sort=None*)  
Get a list of logdir files.

**pause** (*id, when=None*)  
Pause a running result.

**pause\_end\_of\_loop** (*id*)  
Pause a running result at the end of the current loop.

**pause\_end\_of\_test** (*id*)  
Pause a running result at the end of the current test.

**set\_stats** (*ids*)  
Compute stats for a set of results.

**single\_stats** (*id*)  
Compute stats for a result.

**stop** (*id, when=None*)  
Stop a running result.

**stop\_end\_of\_loop** (*id*)  
Stop a running result at the end of the current loop.

**stop\_end\_of\_test** (*id*)  
Stop a running result at the end of the current test.

**unpause** (*id*)  
Unpause a running result.

## 2.8 cdrouter.testresults.TestResultsService

**class** `cdrouter.testresults.TestResultsService` (*service*)  
Service for accessing CDRouter TestResults.

**edit** (*id, resource*)  
Edit a test result.

**get** (*id, seq*)  
Get a test result.

**get\_log** (*id, seq, offset=None, limit=None, filter=None, packets=None, timestamp\_format=None*)  
Get a test result's log.

**get\_log\_plaintext** (*id, seq*)  
Get a test result's log as plaintext.

**list** (*id, filter=None, sort=None, limit=None, page=None*)  
Get a list of test results.

**list\_csv** (*id, filter=None, sort=None, limit=None, page=None*)  
Get a list of test results as CSV.

## 2.9 cdrouter.annotations.AnnotationsService

**class** `cdrouter.annotations.AnnotationsService` (*service*)

Service for accessing CDRouter Annotations.

**create\_or\_edit** (*id, seq, resource*)

Create or edit an annotation.

**delete** (*id, seq, line*)

Delete an annotation.

**get** (*id, seq, line*)

Get an annotation.

**list** (*id, seq*)

Get a list of annotations.

## 2.10 cdrouter.captures.CapturesService

**class** `cdrouter.captures.CapturesService` (*service*)

Service for accessing CDRouter Captures.

**ascii** (*id, seq, intf, filter=None, frame=None, inline=False*)

Get a capture's ASCII (hex dump).

**decode** (*id, seq, intf, filter=None, frame=None, inline=False*)

Get a capture's decode.

**download** (*id, seq, intf, inline=False*)

Download a capture as a PCAP file.

**get** (*id, seq, intf*)

Get a capture.

**list** (*id, seq*)

Get a list of captures.

**send\_to\_cloudshark** (*id, seq, intf, inline=False*)

Send a capture to a CloudShark Appliance. Both `cloudshark_appliance_url` and `cloudshark_appliance_token` must be properly configured via system preferences.

**summary** (*id, seq, intf, filter=None, inline=False*)

Get a capture's summary.

## 2.11 cdrouter.highlights.HighlightsService

**class** `cdrouter.highlights.HighlightsService` (*service*)

Service for accessing CDRouter Highlights.

**create\_or\_edit** (*id, seq, resource*)

Create or edit a highlight.

**delete** (*id, seq, line*)

Get a highlight.

**get** (*id, seq, line*)

Get a highlight.

**list** (*id, seq*)  
Get a list of highlights.

## 2.12 cdrouter.imports.ImportsService

**class** `cdrouter.imports.ImportsService` (*service*)  
Service for accessing CDRouter Imports.

**commit** (*id, imprec*)  
Commit a staged import.

**delete** (*id*)  
Delete a staged import.

**get** (*id*)  
Get a staged import.

**get\_commit\_request** (*id*)  
Get a commit request for a staged import.

**list** ()  
Get a list of staged (in-progress) imports.

**stage\_import\_from\_file** (*fd, filename='upload.gz'*)  
Stage an import from a file upload.

**stage\_import\_from\_filesystem** (*filepath*)  
Stage an import from a filesystem path.

**stage\_import\_from\_url** (*url, token=None, insecure=False*)  
Stage an import from a URL to another CDRouter system.

## 2.13 cdrouter.exports.ExportsService

**class** `cdrouter.exports.ExportsService` (*service*)  
Service for accessing CDRouter Exports.

**bulk\_export** (*config\_ids=None, device\_ids=None, package\_ids=None, result\_ids=None, exclude\_captures=False*)  
Bulk export a set of configs, devices, packages and results.

## 2.14 cdrouter.history.HistoryService

**class** `cdrouter.history.HistoryService` (*service*)  
Service for accessing CDRouter History.

**list** (*filter=None, sort=None, limit=None, page=None*)  
Get a list of history entries.

## 2.15 cdrouter.system.SystemService

**class** `cdrouter.system.SystemService` (*service*)  
Service for accessing CDRouter System.

**check\_for\_lounge\_upgrade** (*email, password*)  
Check the CDRouter Support Lounge for eligible upgrades using your Support Lounge email & password.

**diagnostics** ()  
Get system diagnostics from cdrouter-diag output.

**edit\_preferences** (*resource*)  
Edit preferences in /usr/cdrouter-data/etc/config.yml.

**get\_preferences** ()  
Get preferences from /usr/cdrouter-data/etc/config.yml.

**hostname** ()  
Get system hostname.

**info** ()  
Get system info from cdrouter-cli -info output.

**interfaces** (*addresses=False*)  
Get system interfaces.

**latest\_lounge\_release** ()  
Get the latest release of CDRouter from the CDRouter Support Lounge.

**live** ()  
Get CDRouter Live info from cdrouter-cli -live output.

**lounge\_update\_license** ()  
Download & install a license for your CDRouter system from the CDRouter Support Lounge.

**lounge\_upgrade** (*email, password, release\_id*)  
Download & install an upgrade from the CDRouter Support Lounge using your Support Lounge email & password. Please note that any running tests will be stopped.

**manual\_update\_license** (*fd, filename='cdrouter.lic'*)  
“Update the license on your CDRouter system manually by uploading a .lic license from the CDRouter Support Lounge.

**manual\_upgrade** (*fd, filename='cdrouter.bin'*)  
Upgrade CDRouter manually by uploading a .bin installer from the CDRouter Support Lounge. Please note that any running tests will be stopped.

**restart** ()  
Restart CDRouter web interface. Please note that any running tests will be stopped.

**time** ()  
Get system time.

## 2.16 cdrouter.tags.TagsService

**class** `cdrouter.tags.TagsService` (*service*)  
Service for accessing CDRouter Tags.

**delete** (*name*)  
Delete a tag.

**edit** (*resource*)  
Edit a tag.

**get** (*name*)  
Get a tag.

**list** (*resource=None, sort=None*)  
Get a list of tags.

## 2.17 cdrouter.testsuites.TestsuitesService

**class** `cdrouter.testsuites.TestsuitesService` (*service*)  
Service for accessing CDRouter Testsuites.

**get\_error** (*name*)  
Get a error.

**get\_group** (*name*)  
Get a group.

**get\_label** (*name*)  
Get a label.

**get\_module** (*name*)  
Get a module.

**get\_test** (*name*)  
Get a test.

**get\_testvar** (*name*)  
Get a testvar.

**info** ()  
Get testsuite info.

**list\_errors** (*filter=None, sort=None*)  
Get a list of errors.

**list\_groups** (*filter=None, sort=None*)  
Get a list of groups.

**list\_labels** (*filter=None, sort=None*)  
Get a list of labels.

**list\_modules** (*filter=None, sort=None*)  
Get a list of modules.

**list\_tests** (*filter=None, sort=None*)  
Get a list of tests.

**list\_testvars** (*filter=None, sort=None*)  
Get a list of testvars.

**search** (*query*)  
Perform full text search of testsuite.

## 2.18 cdrouter.users.UsersService

**class** `cdrouter.users.UsersService` (*service*)  
Service for accessing CDRouter Users.

**bulk\_copy** (*ids*)  
Bulk copy a set of users.



**bulk\_delete** (*ids=None, filter=None, all=False*)  
Bulk delete a set of users.

**bulk\_edit** (*\_fields, ids=None, filter=None, all=False*)  
Bulk edit a set of users.

**change\_password** (*id, new, old=None, change\_token=True*)  
Change a user's password.

**change\_token** (*id*)  
Change a user's token.

**create** (*resource*)  
Create a new user.

**delete** (*id*)  
Delete a user.

**edit** (*resource*)  
Edit a user.

**get** (*id*)  
Get a user.

**list** (*filter=None, sort=None, limit=None, page=None*)  
Get a list of users.



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