
RundeckRun Documentation

Release 0.2.2

Mark LaPerriere

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[Version 0.2.2]

This is a lightweight wrapper written in Python to interact with the Rundeck API. It uses the awesome [requests](#) library.

Installation

Note: Requires [requests](#)

```
$ pip install rundeckrun
```

Basic Example

2.1 Initialize

```
>>> from rundeck.client import Rundeck
>>> rd = Rundeck('rundeck.server.com', api_token='SECRET_API_TOKEN')
```

2.2 List Projects

```
>>> rd.projects()
[{'description': None,
  'name': 'TestProject',
  'resources': {'providerURL': 'http://localhost:8000/resources.xml'},
}]
```

2.3 List Jobs for a Project

```
>>> rd.jobs('TestProject')
[{'description': 'Hello World!',
  'group': None,
  'id': 'a6e1e0f7-ad32-4b93-ba2c-9387be06a146',
  'name': 'HelloWorld',
  'project': 'TestProject'}]
```

2.4 Execute a Job

```
>>> rd.job_run('HelloWorld', 'TestProject', argString={'from': 'rundeckrun'})
{'argstring': '-from rundeckrun',
 'date-started': datetime.datetime(2013, 7, 11, 18, 4, 24),
 'description': 'Plugin[localexec, nodeStep: true]',
 'href': 'http://rundeck.server.com/execution/follow/123',
 'id': '123',
 'job': None,
 'status': 'running',
 'user': 'rundeckrun'}
```


3.1 User Guide

3.1.1 Getting Started

Installation

```
pip install rundeckrun
```

“Hello World!”

```
from rundeck.client import Rundeck
rd = Rundeck(api_token='SECRET_API_TOKEN')
rd.list_projects()
```

The code above should result in a list of projects on the target Rundeck server such as this...

```
[{
  'description': None,
  'name': 'TestProject',
  'resources': {'providerURL': 'http://localhost:8000/resources.xml'},
}]
```

From this point on in the documentation, assume the `rd` variable is an instance of the *Rundeck* class.

3.1.2 Interacting with Rundeck

An instance of the *Rundeck* class is where you’ll spend most with RundeckRun. If you want a more *raw* interface to the Rundeck API, check out the *RundeckApi* class. In this case, you’ll definitely want to check out the [Rundeck API Reference](#).

Server

A guide to working with the Rundeck Server.

3.1.3 Projects

Projects

A guide to working with Rundeck Projects.

Listing

```
>>> rd.list_projects()
[{'description': None,
  'name': 'TestProject',
  'resources': {'providerURL': 'http://localhost:8000/resources.xml'},
}]
```

3.1.4 Jobs

Jobs

A guide to working with Rundeck Jobs.

Listing

```
>>> rd.list_jobs('TestProject')
[{'description': 'Hello World!',
  'group': None,
  'id': 'a6e1e0f7-ad32-4b93-ba2c-9387be06a146',
  'name': 'HelloWorld',
  'project': 'TestProject'}]
```

Run a Job

```
>>> rd.run_job('a6e1e0f7-ad32-4b93-ba2c-9387be06a146', argString={'from': 'RundeckRun'})
{'argstring': '-from RundeckRun',
 'date-started': datetime.datetime(2013, 7, 11, 18, 4, 24),
 'description': 'Plugin[localexec, nodeStep: true]',
 'href': 'http://rundeck.server.com/execution/follow/123',
 'id': '123',
 'job': None,
 'status': 'running',
 'user': 'rundeckrun'}
```

A Note on argString Ensure the argString arguments' values are using the defined delimiter for any option that is designated as [Multi-valued](#).

Example: For a job [Multi-valued](#) job option with a , (comma) delimiter use the following argString:

```
argString={'recipients': 'admin@example.com, support@example.com' }
```

Note: If you choose a space as your delimiter, you'll have to double quote the value like so:
`argString={'recipients':' "admin@example.com support@example.com" '}`

Export All Jobs

```
>>> print(rd.jobs_export('TestProject', fmt='yaml'))
- id: cb973e3a-e682-4b45-9dbe-9e5301a4361e
project: TestProject
loglevel: INFO
sequence:
  keepgoing: false
  strategy: node-first
  commands:
  - type: localexec
    nodeStep: true
    configuration:
      command: echo "Hello World!"
description: ''
name: TestJob
uuid: cb973e3a-e682-4b45-9dbe-9e5301a4361e
group: RundeckRun/Tests
```

3.1.5 Resources

Resources

A guide to working with Rundeck Project Resources.

3.1.6 Importing and Exporting

Importing and Exporting

A guide to exporting and importing Rundeck objects.

4.1 API

4.1.1 rundeck

summary rundeckrun package
license Apache License, Version 2.0
author Mark LaPerriere
contact rundeckrun@mindmind.com
copyright Mark LaPerriere 2015

4.1.2 rundeck.api

summary Direct interaction with Rundeck server API
license Apache License, Version 2.0
author Mark LaPerriere
contact rundeckrun@mindmind.com
copyright Mark LaPerriere 2015

class `rundeck.api.RundeckApi` (*server='localhost', protocol='http', port=4440, api_token=None, **kwargs*)

Same as `RundeckApiTolerant` and complains on every Rundeck Server error or 4xx/5xx HTTP status code.

class `rundeck.api.RundeckApiTolerant` (*server='localhost', protocol='http', port=4440, api_token=None, **kwargs*)

As close to the Rundeck API as possible. The “Tolerant” class does not throw exceptions when HTTP status codes are returned. Probably don’t want/need to use this.

IVariables

connection [*RundeckConnection*] a *RundeckConnection* instance

__init__ (*server='localhost', protocol='http', port=4440, api_token=None, **kwargs*)
 Initialize a Rundeck API instance

Parameters

server [str] hostname of the Rundeck server (default: localhost)

protocol [str ('http'|'https')] (default: 'http')

port [int] Rundeck server port (default: 4440)

api_token [str] valid Rundeck user API token

Keywords

base_path [str] Custom base URL path for Rundeck server URLs [default: None]

usr [str] Rundeck user name (used in place of api_token)

pwd [str] Rundeck user password (used in combo with usr)

api_version [int] Rundeck API version

connection [*RundeckConnection*] an instance of a *RundeckConnection* or instance of a subclass of *RundeckConnection*

delete_job (*job_id*, ***kwargs*)
Wraps *Rundeck API DELETE /job/[ID]*

Parameters

job_id [str] Rundeck Job ID

Returns A Requests response

Return type requests.models.Response

execution (*execution_id*, ***kwargs*)
Wraps *Rundeck API GET /execution/[ID]*

Parameters

execution_id [str] Rundeck Job Execution ID

Returns A *RundeckResponse*

Return type *RundeckResponse*

execution_abort (*execution_id*, ***kwargs*)
Wraps *Rundeck API GET /execution/[ID]/output*

Parameters

execution_id [str] Rundeck Job Execution ID

Keywords

asUser [str] specifies a username identifying the user who aborted the execution

Returns A Requests response

Return type requests.models.Response

execution_output (*execution_id*, ***kwargs*)
Wraps *Rundeck API GET /execution/[ID]/output*

Parameters

execution_id [str] Rundeck Job Execution ID

Keywords

fmt [str] the format of the response one of *ExecutionOutputFormat* values (default: 'text')

offset [int] byte offset to read from in the file, 0 indicates the beginning

lastlines [int] number of lines to retrieve from the end of the available output, overrides offset

lastmod [int] a unix millisecond timestamp; return output data received after this timestamp

maxlines [int] maximum number of lines to retrieve forward from the specified offset

Returns A Requests response

Return type requests.models.Response

executions (*project*, ***kwargs*)

Wraps [Rundeck API GET /executions](#)

Parameters

project [str] name of the project

Keywords

statusFilter [str] one of [Status](#) values

abortedbyFilter [str] user name that aborted the execution

userFilter [str] user name that initiated the execution

recentFilter | **str** Use a simple text format to filter executions that completed within a period of time; the format is “XY” where ‘X’ is an integer and ‘Y’ is one of:

- *h*:hour
- *d*:day
- *w*:week
- *m*:month
- *y*:year

So a value of “2w” would return executions that completed within the last two weeks

begin [int | str] either a unix millisecond timestamp or a W3C dateTime “yyyy-MM-ddTHH:mm:ssZ”

end [int | str] either a unix millisecond timestamp or a W3C dateTime “yyyy-MM-ddTHH:mm:ssZ”

adhoc [bool] includes adhoc executions

jobIdListFilter [str | list] one or more job ids to include

excludeJobIdListFilter [str | list] one or more job ids to exclude

jobListFilter [str | list] one or more full job group/name to include

excludeJobListFilter [str | list] one or more full job group/name to include

groupPath [str] a group or partial group path to include, special “-” setting matches top level jobs only

groupPathExact [str] an exact group path to include, special “-” setting matches top level jobs only

excludeGroupPath [str] a group or partial group path to exclude, special “-” setting matches top level jobs only

excludeGroupPathExact [str] an exact group path to exclude, special “-” setting matches top level jobs only

jobExactFilter [str] an exact job name

excludeJobExactFilter [str] an exact job name to exclude

max [int] maximum number of results to include in response (default: 20)

offset [int] offset for result set (default: 0)

Returns A *RundeckResponse*

Return type *RundeckResponse*

executions_running (*project*, ***kwargs*)

Wraps *Rundeck API GET /executions/running*

Parameters

project [str] the name of a project

Returns A *RundeckResponse*

Return type *RundeckResponse*

history (*project*, ***kwargs*)

Wraps *Rundeck API GET /history*

Parameters

project [str] name of the project

Keywords

jobIdFilter [str] include event for a job ID

reportIdFilter [str] include events for an event name

userFilter [str] include events created by user

statFilter [str] one of *Status* values

jobListFilter [str | list] one or more full job group/name to include

excludeJobListFilter [str | list] one or more full job group/name to include

recentFilter | **str** Use a simple text format to filter executions that completed within a period of time; the format is “XY” where ‘X’ is an integer and ‘Y’ is one of:

- *h*:hour
- *d*:day
- *w*:week
- *m*:month
- *y*:year

So a value of “2w” would return executions that completed within the last two weeks

begin [int | str] either a unix millisecond timestamp or a W3C dateTime “yyyy-MM-ddTHH:mm:ssZ”

end [int | str] either a unix millisecond timestamp or a W3C dateTime “yyyy-MM-ddTHH:mm:ssZ”

max [int] maximum number of results to include in response (default: 20)

offset [int] offset for result set (default: 0)

Returns A *RundeckResponse*

Return type *RundeckResponse*

job (*job_id*, ***kwargs*)

Wraps *Rundeck API GET /job/[ID]*

Parameters

job_id [str] Rundeck Job ID

Keywords

fmt [str] the format of the response one of *JobDefFormat* values (default: 'xml')

Returns A Requests response

Return type requests.models.Response

job_executions (*job_id*, ***kwargs*)

Wraps *Rundeck API GET /job/[ID]/executions*

Parameters

job_id [str] a Job ID

Keywords

status [str] one of *Status* values

max [int] maximum number of results to include in response (default: 20)

offset [int] offset for result set (default: 0)

Returns A *RundeckResponse*

Return type *RundeckResponse*

job_run (*job_id*, ***kwargs*)

Wraps *Rundeck API GET /job/[ID]/run*

Parameters

job_id [str] Rundeck Job ID

Keywords

argString [str | dict] argument string to pass to job - if str, will be passed as-is else if dict will be converted to compatible string

loglevel [str('DEBUG', 'VERBOSE', 'INFO', 'WARN', 'ERROR')] logging level (default: 'INFO')

asUser [str] user to run the job as

exclude-precedence [bool] set the exclusion precedence (default True)

hostname [str] hostname inclusion filter

tags [str] tags inclusion filter

os-name [str] os-name inclusion filter

os-family [str] os-family inclusion filter

os-arch [str] os-arch inclusion filter

os-version [str] os-version inclusion filter

name [str] name inclusion filter

exlude-hostname [str] hostname exclusion filter

exclude-tags [str] tags exclusion filter
exclude-os-name [str] os-name exclusion filter
exclude-os-family [str] os-family exclusion filter
exclude-os-arch [str] os-arch exclusion filter
exclude-os-version [str] os-version exclusion filter
exclude-name [str] name exclusion filter

Returns A *RundeckResponse*

Return type *RundeckResponse*

jobs (*project*, ***kwargs*)

Wraps *Rundeck API GET /jobs*

Parameters

project [str] the name of a project

Keywords

idlist [str | list(str, ...)] specify a comma-separated string or a list of Job IDs to include
groupPath [str] specify a group or partial group path to include all jobs within that group path or "*" for all groups or "-" to match top level jobs only (default: "*")
jobFilter [str] specify a job name filter; will match any job name that contains this string
jobExactFilter [str] specify an exact job name to match
groupPathExact [str] specify an exact group path to match or "-" to match the top level jobs only

Returns A *RundeckResponse*

Return type *RundeckResponse*

jobs_delete (*idlist*, ***kwargs*)

Wraps *Rundeck API POST /jobs/delete*

Parameters

ids [str | list(str, ...)] a list of job ids or a string of comma seperated job ids to delete

Returns A *RundeckResponse*

Return type *RundeckResponse*

jobs_export (*project*, ***kwargs*)

Wraps *Rundeck API GET /jobs/export*

Parameters

name [str] name of the project

Keywords

fmt [str ('xml'|'yaml')] format of the definition string (default: 'xml')
idlist [list(str, ...)] a list of job ids to return
groupPath [str] a group path, partial group path or the special top level only char '-'
jobFilter: str find job names that include this string

Returns A Requests response

Return type requests.models.Response

jobs_import (*definition*, ***kwargs*)

Wraps [Rundeck API POST /jobs/import](#)

Parameters

definition [str] a string representing a job definition

Keywords

fmt [str ('xml'|'yaml')] format of the definition string (default: 'xml')

dupeOption [str ('skip'|'create'|'update')] a value to indicate the behavior when importing jobs which already exist (default: 'create')

project [str] specify the project that all job definitions should be imported to otherwise all job definitions must define a project

uuidOption [str ('preserve'|'remove')] preserve or remove UUIDs in imported jobs - preserve may fail if a UUID already exists

Returns A [RundeckResponse](#)

Return type [RundeckResponse](#)

project (*project*, ***kwargs*)

Wraps [Rundeck API /project/\[NAME\]](#)

Parameters

project [str] name of Project

Keywords

create [bool] Create the project if it is not found (requires API version >11) [default: True for API version >11 else False]

Returns A [RundeckResponse](#) `

Return type [RundeckResponse](#)

project_jobs (*project*, ***kwargs*)

Simulates [Rundeck API GET /project/\[NAME\]/jobs](#)

Note: Can't find any difference between this and `/jobs`, so this method is just a synonym for the `jobs` method

Parameters

project [str] name of the project

Keywords

idlist [list(str, ...)] a list of job ids to return

groupPath [str] a group path, partial group path or the special top level only char '-'

jobFilter: str find job names that include this string

jobExactFilter [str] a specific job name to return

groupPathExact [str] a exact group path to match or the special top level only char '-'

Returns A [RundeckResponse](#)

Return type [RundeckResponse](#)

project_resources (*project*, ***kwargs*)

Wraps [Rundeck API GET /project/\[NAME\]/resources](#)

Parameters

project [str] name of the project

Keywords

fmt [str] the format of the response one of [ExecutionOutputFormat](#) values (default: 'text')

hostname [str] hostname inclusion filter

tags [str] tags inclusion filter

os-name [str] os-name inclusion filter

os-family [str] os-family inclusion filter

os-arch [str] os-arch inclusion filter

os-version [str] os-version inclusion filter

name [str] name inclusion filter

exclude-hostname [str] hostname exclusion filter

exclude-tags [str] tags exclusion filter

exclude-os-name [str] os-name exclusion filter

exclude-os-family [str] os-family exclusion filter

exclude-os-arch [str] os-arch exclusion filter

exclude-os-version [str] os-version exclusion filter

exclude-name [str] name exclusion filter

Returns A [RundeckResponse](#)

Return type [RundeckResponse](#)

project_resources_refresh (*project*, *providerURL=None*, ***kwargs*)

Wraps [Rundeck API POST /project/\[NAME\]/resources/refresh](#)

Parameters

project [str] name of the project

providerURL [str] Specify the Resource Model Provider URL to refresh the resources from; otherwise the configured provider URL in the *project.properties* file will be used

Returns A [RundeckResponse](#)

Return type [RundeckResponse](#)

project_resources_update (*project*, *nodes*, ***kwargs*)

Wraps [Rundeck API POST /project/\[NAME\]/resources](#)

Parameters

project [str] name of the project

nodes [list(RundeckNode, ...)] a list of [RundeckNode](#) objects

Returns A [RundeckResponse](#)

Return type [RundeckResponse](#)

projects (*method='get', **kwargs*)

An interface to the Rundeck *projects* API endpoint support

Parameters

method [str] GET will retrieve a project, POST will create a project

Returns A *RundeckResponse*

Return type *RundeckResponse*

run_command (*project, command, **kwargs*)

Wraps *Rundeck API GET /run/command*

Parameters

project [str] name of the project

command [str] the shell command string to run

Keywords

nodeThreadcount [int] the number of threads to use

nodeKeepgoing [bool] if True, continue executing on other nodes even if some fail

asUser [str] specifies a username identifying the user who ran the command; requires runAs permission

hostname [str] hostname inclusion filter

tags [str] tags inclusion filter

os-name [str] os-name inclusion filter

os-family [str] os-family inclusion filter

os-arch [str] os-arch inclusion filter

os-version [str] os-version inclusion filter

name [str] name inclusion filter

exclude-hostname [str] hostname exclusion filter

exclude-tags [str] tags exclusion filter

exclude-os-name [str] os-name exclusion filter

exclude-os-family [str] os-family exclusion filter

exclude-os-arch [str] os-arch exclusion filter

exclude-os-version [str] os-version exclusion filter

exclude-name [str] name exclusion filter

Returns A *RundeckResponse*

Return type *RundeckResponse*

run_script (*project, scriptFile, **kwargs*)

Wraps *Rundeck API POST /run/script*

Parameters

project [str] name of the project

scriptFile [str] a string containing the script file content

Keywords

argString [str | dict] argument string to pass to job - if str, will be passed as-is else if dict will be converted to compatible string

nodeThreadcount [int] the number of threads to use

nodeKeepgoing [bool] if True, continue executing on other nodes even if some fail

asUser [str] specifies a username identifying the user who ran the command; requires runAs permission

scriptInterpreter [str] a command to use to run the script (requires API version 8 or higher)

interpreterArgsQuoted [bool] if True the script file and arguments will be quoted as the last argument to the scriptInterpreter (requires API version 8 or higher)

hostname [str] hostname inclusion filter

tags [str] tags inclusion filter

os-name [str] os-name inclusion filter

os-family [str] os-family inclusion filter

os-arch [str] os-arch inclusion filter

os-version [str] os-version inclusion filter

name [str] name inclusion filter

exclude-hostname [str] hostname exclusion filter

exclude-tags [str] tags exclusion filter

exclude-os-name [str] os-name exclusion filter

exclude-os-family [str] os-family exclusion filter

exclude-os-arch [str] os-arch exclusion filter

exclude-os-version [str] os-version exclusion filter

exclude-name [str] name exclusion filter

Returns A *RundeckResponse*

Return type *RundeckResponse*

run_url (*project*, *scriptURL*, ***kwargs*)

Wraps [Rundeck API POST /run/url](#) Requires API version >4

Parameters

project [str] name of the project

scriptURL [str] a URL referencing a script to download and run

Keywords

argString [str | dict] argument string to pass to job - if str, will be passed as-is else if dict will be converted to compatible string

nodeThreadcount [int] the number of threads to use

nodeKeepgoing [bool] if True, continue executing on other nodes even if some fail

asUser [str] specifies a username identifying the user who ran the command; requires runAs permission

scriptInterpreter [str] a command to use to run the script (requires API version 8 or higher)

interpreterArgsQuoted [bool] if True the script file and arguments will be quoted as the last argument to the scriptInterpreter (requires API version 8 or higher)

hostname [str] hostname inclusion filter

tags [str] tags inclusion filter

os-name [str] os-name inclusion filter

os-family [str] os-family inclusion filter

os-arch [str] os-arch inclusion filter

os-version [str] os-version inclusion filter

name [str] name inclusion filter

exlude-hostname [str] hostname exclusion filter

exlude-tags [str] tags exclusion filter

exlude-os-name [str] os-name exclusion filter

exlude-os-family [str] os-family exclusion filter

exlude-os-arch [str] os-arch exclusion filter

exlude-os-version [str] os-version exclusion filter

exlude-name [str] name exclusion filter

Returns A *RundeckResponse*

Return type *RundeckResponse*

system_info (**kwargs)

Wraps *Rundeck* API GET /system/info

Returns A *RundeckResponse*

Return type *RundeckResponse*

class `rundeck.api.RundeckNode` (*name, hostname, username, **kwargs*)

Represents a Rundeck node; mainly for serializing to XML

IVariables

name [str] name of the node

hostname [str] hostname of the node

username [str] username used for the remote connection

description [str] node description

osArch [str] the node's operating system architecture

osFamily [str] the node's operating system system family

osName [str] the node's operating system name

tags [list(str, ...)] a list of filtering tags

editUrl [str] URL to an external resource model editor service

remoteUrl [str] URL to an external resource model service

attributes [dict] a dictionary of name/value pairs to be used as node attributes

`__init__(name, hostname, username, **kwargs)`

Initialize a RundeckNode instance

Parameters

name [str] name of the node

hostname [str] hostname of the node

username [str] username used for the remote connection

Keywords

description [str] node description

osArch [str] the node's operating system architecture

osFamily [str] the node's operating system system family

osName [str] the node's operating system name

tags [list(str, ...)] a list of filtering tags

editUrl [str] URL to an external resource model editor service

remoteUrl [str] URL to an external resource model service

attributes [dict] a dictionary of name/value pairs to be used as node attributes

serialize()

serializes the instance to XML

Return type str

Returns an XML string

xml

`rundeck.api.api_version_check(api_version, required_version)`

Raises a NotImplementedError if the api_version of the connection isn't sufficient

4.1.3 rundeck.client

summary Python client for interacting with Rundeck API

license Apache License, Version 2.0

author Mark LaPerriere

contact rundeckrun@mindmind.com

copyright Mark LaPerriere 2015

class `rundeck.client.Rundeck`(server='localhost', protocol='http', port=4440, api_token=None, **kwargs)

`__init__(server='localhost', protocol='http', port=4440, api_token=None, **kwargs)`

Initialize a Rundeck API Client

Parameters

server [str] hostname of the Rundeck server (default: localhost)

protocol [str ('http'|'https')] (default: 'http')

port [int] Rundeck server port (default: 4440)

api_token [str] valid Rundeck user API token

Keywords

base_path [str] Custom base URL path for Rundeck server URLs [default: None]

usr [str] Rundeck user name (used in place of api_token)

pwd [str] Rundeck user password (used in combo with usr)

api_version [int] Rundeck API version

api [RundeckApi] an instance of a RundeckApi or subclass of RundeckApi

connection [RundeckConnection] an instance of a RundeckConnection or instance of a subclass of RundeckConnection

abort_execution (**args, **kwargs*)

Abort a running Job Execution

Parameters

execution_id [str] Rundeck Job Execution ID

Keywords

asUser [str] specifies a username identifying the user who aborted the execution

Returns abort status information

Return type dict

create_project (**args, **kwargs*)

Create a project Requires API version >11

Parameters

project [str] name of the project

Keywords

config [dict] a dictionary of key/value pairs for the project config

Returns detailed information about a project

Return type dict

delete_job (*job_id, **kwargs*)

Delete a job

Parameters

job_id [str] Rundeck Job ID

Returns success

Return type bool

delete_jobs (*idlist, **kwargs*)

Bulk Job delete

Parameters

idlist [str | list(str, ...)] a list of job ids or a string of comma separated job ids to delete

Returns results of the bulk delete with details

Return type dict

Example Response:

```
{
  'requestCount': 3,
  'allsuccessful': False,
  'succeeded': {
    'id': '1234-123-123-12345',
    'message': 'success',
  },
  'failed': {
    'id': '9876-986-987-98765',
    'message': 'Job ID 9876-986-987-98765 does not exist',
  },
}
```

execution_status (*args, **kwargs)

Get the status of an execution

Parameters

execution_id [int] Rundeck Job Execution ID

Returns an Execution

Return type dict

export_job (job_id, **kwargs)

Export a job definition in XML or YAML format

Parameters

job_id [str] Rundeck Job ID

Keywords

fmt [str] the format of the response one of JobDefFormat.values (default: 'xml')

Returns a Job definition

Return type str

get_execution_output (execution_id, **kwargs)

Get the output for an execution in various formats

Parameters

execution_id [str] Rundeck Job Execution ID

Keywords

fmt [str] the format of the response one of ExecutionOutputFormat.values (default: 'json')

raw [bool] return the results of the Execution output request unmodified (default: False)

offset [int] byte offset to read from in the file, 0 indicates the beginning

lastlines [int] number of lines to retrieve from the end of the available output, overrides offset

lastmod [int] a unix millisecond timestamp; return output data received after this timestamp

maxlines [int] maximum number of lines to retrieve forward from the specified offset

Returns Execution output

Return type str | dict | RundeckResponse

get_job_id (*project*, *name=None*, ***kwargs*)

Fetch a Job ID that matches the filter criterea specified

WARNING: if there is more than one job that matches the specified criteria, this will return the first job that Rundeck server includes in the list of matches

Parameters

project [str] the name of a project

Keywords

idlist [str | list(str, ...)] specify a comma-separated string or a list of Job IDs to include

groupPath [str] specify a group or partial group path to include all jobs within that group path or "*" for all groups or "-" to match top level jobs only (default: "*")

jobFilter [str] specify a job name filter; will match any job name that contains this string

jobExactFilter [str] specify an exact job name to match

groupPathExact [str] specify an exact group path to match or "-" to match the top level jobs only

Returns a Rundeck Job ID

Return type str

get_job_ids (*project*, ***kwargs*)

Fetch a list of Job IDs that match the filter criterea specified

Parameters

project [str] the name of a project

Keywords

limit [int] limit the result set to 1 or more jobs

idlist [str | list(str, ...)] specify a comma-separated string or a list of Job IDs to include

groupPath [str] specify a group or partial group path to include all jobs within that group path or "*" for all groups or "-" to match top level jobs only (default: "*")

jobFilter [str] specify a job name filter; will match any job name that contains this string

jobExactFilter [str] specify an exact job name to match

groupPathExact [str] specify an exact group path to match or "-" to match the top level jobs only

Returns a list of Job IDs

Return type list

get_project (**args*, ***kwargs*)

Fetch a project details

Parameters

project [str] the name of a project

Returns detailed information about a project

Return type dict

get_project_history (*args, **kwargs)

List history events for a project

Parameters

project [str] name of the project

Keywords

jobIdFilter [str] include event for a job ID

reportIdFilter [str] include events for an event name

userFilter [str] include events created by user

statFilter [str] one of Status.values

jobListFilter [str | list] one or more full job group/name to include

excludeJobListFilter [str | list] one or more full job group/name to include

recentFilter | **str** Use a simple text format to filter executions that completed within a period of time; the format is “XY” where ‘X’ is an integer and ‘Y’ is one of:

- *h*:hour
- *d*:day
- *w*:week
- *m*:month
- *y*:year

So a value of “2w” would return executions that completed within the last two weeks

begin [int | str] either a unix millisecond timestamp or a W3C dateTime “yyyy-MM-ddTHH:mm:ssZ”

end [int | str] either a unix millisecond timestamp or a W3C dateTime “yyyy-MM-ddTHH:mm:ssZ”

max [int] maximum number of results to include in response (default: 20)

offset [int] offset for result set (default: 0)

Returns A RundeckResponse

Return type *RundeckResponse*

import_job (*args, **kwargs)

Import a job definition string in XML or YAML format

Parameters

definition [str] a string representing a job definition

Keywords

fmt [str (‘xml’|‘yaml’)] format of the definition string (default: ‘xml’)

dupeOption [str (‘skip’|‘create’|‘update’)] a value to indicate the behavior when importing jobs which already exist (default: ‘create’)

project [str] specify the project that all job definitions should be imported to otherwise all job definitions must define a project

uuidOption [str (‘preserve’|‘remove’)] preserve or remove UUIDs in imported jobs - preserve may fail if a UUID already exists

Returns the results of the job import

Return type dict

import_job_file (*file_path*, ***kwargs*)

Read in the contents of a job definition file for import

Parameters

file_path [str] the path to a readable job definition file

Keywords

file_format [str ('xml'|'yaml')] if not specified it will be derived from the file extension (default: 'xml')

Raises **IOError** – raised if job definition file can not be found or is not readable

Returns a dict object representing a set of Rundeck status messages

Return type dict

jobs_export (*project*, ***kwargs*)

Export a the job definitions for a project in XML or YAML format

Parameters

name [str] name of the project

Keywords

fmt [str ('xml'|'yaml')] format of the definition string (default: 'xml')

idlist [list(str, ...)] a list of job ids to return

groupPath [str] a group path, partial group path or the special top level only char '-'

jobFilter: str find job names that include this string

Returns a job definition

Return type str

list_job_executions (**args*, ***kwargs*)

Get a list of executions of a Job

Parameters

job [str] A Job ID

Keywords

status [str] one of Status.values

max [int] maximum number of results to include in response (default: 20)

offset [int] offset for result set (default: 0)

Returns a list of Job Executions

Return type list(dict, ...)

list_jobs (**args*, ***kwargs*)

Fetch a listing of jobs for a project

Parameters

project [str] the name of a project

Keywords

limit [int] limit the result set to 1 or more jobs

idlist [str | list(str, ...)] specify a comma-separated string or a list of Job IDs to include

groupPath [str] specify a group or partial group path to include all jobs within that group path or "*" for all groups or "-" to match top level jobs only (default: "*")

jobFilter [str] specify a job name filter; will match any job name that contains this string

jobExactFilter [str] specify an exact job name to match

groupPathExact [str] specify an exact group path to match or "-" to match the top level jobs only

Returns a list of Jobs

Return type list(dict, ...)

list_project_resources (*project*, ***kwargs*)

Retrieve the list of resources for a project. If *fmt* is unspecified, a python dictionary will be returned

Parameters

project [str] name of the project

Keywords

fmt [str]

the format of the response, either 'python' (dict), 'xml' or 'yaml' (default: 'python')

hostname [str] hostname inclusion filter

tags [str] tags inclusion filter

os-name [str] os-name inclusion filter

os-family [str] os-family inclusion filter

os-arch [str] os-arch inclusion filter

os-version [str] os-version inclusion filter

name [str] name inclusion filter

exclude-hostname [str] hostname exclusion filter

exclude-tags [str] tags exclusion filter

exclude-os-name [str] os-name exclusion filter

exclude-os-family [str] os-family exclusion filter

exclude-os-arch [str] os-arch exclusion filter

exclude-os-version [str] os-version exclusion filter

exclude-name [str] name exclusion filter

Returns A list of resources or a string representing the requested resources in the requested format

Return type list({'name': str, 'hostname': str, 'username': str}) | str

list_projects (**args*, ***kwargs*)

Get a list of projects

Returns a list of Rundeck projects

Return type list(dict, ...)

list_running_executions (*args, **kwargs)

Retrieve running executions

Parameters

project [str] the name of a project (use “*” for all projects - API v9+ required)

Returns a list of Job Executions

Return type list(dict, ...)

query_executions (*args, **kwargs)

Execution query

Parameters

project [str] name of the project

Keywords

statusFilter [str] one of Status.values

abortedbyFilter [str] user name that aborted the execution

userFilter [str] user name that initiated the execution

recentFilter | **str** Use a simple text format to filter executions that completed within a period of time; the format is “XY” where ‘X’ is an integer and ‘Y’ is one of:

- *h*:hour
- *d*:day
- *w*:week
- *m*:month
- *y*:year

So a value of “2w” would return executions that completed within the last two weeks

begin [int | str] either a unix millisecond timestamp or a W3C dateTime “yyyy-MM-ddTHH:mm:ssZ”

end [int | str] either a unix millisecond timestamp or a W3C dateTime “yyyy-MM-ddTHH:mm:ssZ”

adhoc [bool] includes adhoc executions

jobIdListFilter [str | list] one or more job ids to include

excludeJobIdListFilter [str | list] one or more job ids to exclude

jobListFilter [str | list] one or more full job group/name to include

excludeJobListFilter [str | list] one or more full job group/name to include

groupPath [str] a group or partial group path to include, special “-” setting matches top level jobs only

groupPathExact [str] an exact group path to include, special “-” setting matches top level jobs only

excludeGroupPath [str] a group or partial group path to exclude, special “-” setting matches top level jobs only

excludeGroupPathExact [str] an exact group path to exclude, special “-” setting matches top level jobs only

jobExactFilter [str] an exact job name

excludeJobExactFilter [str] an exact job name to exclude

max [int] maximum number of results to include in response (default: 20)

offset [int] offset for result set (default: 0)

Returns a list of Job Executions

Return type list(dict, ...)

refresh_project_resources (*args, **kwargs)

Refresh the resources for a project via its Resource Model Provider URL

Parameters

project [str] name of the project

providerURL [str] Specify the Resource Model Provider URL to refresh the resources from; otherwise the configured provider URL in the *project.properties* file will be used

Returns success message

Return type dict

run_adhoc_command (*args, **kwargs)

Run a command

Parameters

project [str] name of the project

command [str] the shell command string to run

Keywords

nodeThreadcount [int] the number of threads to use

nodeKeepgoing [bool] if True, continue executing on other nodes even if some fail

asUser [str] specifies a username identifying the user who ran the command; requires runAs permission

hostname [str] hostname inclusion filter

tags [str] tags inclusion filter

os-name [str] os-name inclusion filter

os-family [str] os-family inclusion filter

os-arch [str] os-arch inclusion filter

os-version [str] os-version inclusion filter

name [str] name inclusion filter

exclude-hostname [str] hostname exclusion filter

exclude-tags [str] tags exclusion filter

exclude-os-name [str] os-name exclusion filter

exclude-os-family [str] os-family exclusion filter

exclude-os-arch [str] os-arch exclusion filter

exclude-os-version [str] os-version exclusion filter

exclude-name [str] name exclusion filter

Returns Execution ID

Return type int

run_adhoc_script (*args, **kwargs)

Run a script downloaded from a URL

Parameters

project [str] name of the project

scriptFile [str] a string containing the script file content

Keywords

argString [str | dict] argument string to pass to job - if str, will be passed as-is else if dict will be converted to compatible string

nodeThreadcount [int] the number of threads to use

nodeKeepinggoing [bool] if True, continue executing on other nodes even if some fail

asUser [str] specifies a username identifying the user who ran the command; requires runAs permission

scriptInterpreter [str] a command to use to run the script (requires API version 8 or higher)

interpreterArgsQuoted [bool] if True the script file and arguments will be quoted as the last argument to the scriptInterpreter (requires API version 8 or higher)

hostname [str] hostname inclusion filter

tags [str] tags inclusion filter

os-name [str] os-name inclusion filter

os-family [str] os-family inclusion filter

os-arch [str] os-arch inclusion filter

os-version [str] os-version inclusion filter

name [str] name inclusion filter

exclude-hostname [str] hostname exclusion filter

exclude-tags [str] tags exclusion filter

exclude-os-name [str] os-name exclusion filter

exclude-os-family [str] os-family exclusion filter

exclude-os-arch [str] os-arch exclusion filter

exclude-os-version [str] os-version exclusion filter

exclude-name [str] name exclusion filter

Returns Execution ID

Return type int

run_adhoc_url (*args, **kwargs)

Run a script downloaded from a URL

Parameters

project [str] name of the project

scriptUrl [str] a URL referencing a script to download and run

Keywords

argString [str | dict] argument string to pass to job - if str, will be passed as-is else if dict will be converted to compatible string

nodeThreadcount [int] the number of threads to use

nodeKeepinggoing [bool] if True, continue executing on other nodes even if some fail

asUser [str] specifies a username identifying the user who ran the command; requires runAs permission

scriptInterpreter [str] a command to use to run the script (requires API version 8 or higher)

interpreterArgsQuoted [bool] if True the script file and arguments will be quoted as the last argument to the scriptInterpreter (requires API version 8 or higher)

hostname [str] hostname inclusion filter

tags [str] tags inclusion filter

os-name [str] os-name inclusion filter

os-family [str] os-family inclusion filter

os-arch [str] os-arch inclusion filter

os-version [str] os-version inclusion filter

name [str] name inclusion filter

exclude-hostname [str] hostname exclusion filter

exclude-tags [str] tags exclusion filter

exclude-os-name [str] os-name exclusion filter

exclude-os-family [str] os-family exclusion filter

exclude-os-arch [str] os-arch exclusion filter

exclude-os-version [str] os-version exclusion filter

exclude-name [str] name exclusion filter

Returns Execution ID

Return type int

run_job (*job_id*, ***kwargs*)

Wraps job_run method and implements a blocking mechanism to wait for the job to complete (within reason, i.e. timeout and interval)

See Rundeck.job_run docstring for additional keyword args

Parameters

job_id [str] Rundeck Job ID

Keywords

timeout [int | float] how many seconds to wait for a completed status (default: 60)

interval [int | float] how many seconds to sleep between polling cycles (default: 3)

Returns Details about the Job Execution

Return type dict

system_info (*args, **kwargs)

Get Rundeck Server System Info

Returns a dict object representing the Rundeck system information

Return type dict

update_project_resources (*args, **kwargs)

Update the resources for a project

Parameters

project [str] name of the project

nodes [list] a list of nodes in the form of a three tuple ((*name*, *hostname*, *username*)) or a dictionary at least the following keys 'name', 'hostname' and 'username'

Returns success message

Return type dict

`rundeck.client.is_job_id(job_id)`

Checks if a Job ID “looks” like a UUID. It does not check if it exists as a job in Rundeck. And of course, a Rundeck Job ID does not have to be a “UUID”. Any unique string will do so be prepared for false negatives if you customize your job ids.

Parameters

job_id [str] a Rundeck Job ID

Return type bool

4.1.4 rundeck.connection

summary Connection object for Rundeck client

license Apache License, Version 2.0

author Mark LaPerriere

contact rundeckrun@mindmind.com

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requires requests

class `rundeck.connection.RundeckConnection` (*server='localhost', protocol='http', port=4440, api_token=None, **kwargs*)

request (*method, url, params=None, headers=None, data=None, files=None, quiet=False*)

Override to call `raise_for_status` forcing non-successful HTTP responses to bubble up as exceptions

Parameters

method [str] the HTTP request method

url [str] API URL

params [dict({str: str, ...})] a dict of query string params (default: None)

data [str] the url encoded payload necessary for some commands (default: None)

files [dict({str: str, ...})] a dict of files to upload (default: None)

quiet [bool] suppress calling raise_for_status (default: False)

Return type requests.Response

class `rundeck.connection.RundeckConnectionTolerant` (*server='localhost', protocol='http', port=4440, api_token=None, **kwargs*)

__init__ (*server='localhost', protocol='http', port=4440, api_token=None, **kwargs*)
Initialize a Rundeck API client connection

Parameters

server [str] hostname of the Rundeck server (default: localhost)

protocol [str] either http or https (default: 'http')

port [int] Rundeck server port (default: 4440)

api_token [str] ***Preferred method of authentication* - valid Rundeck user API token (default: None)

Keywords

base_path [str] Custom base URL path for Rundeck server URLs [default: None]

usr [str] Rundeck user name (used in place of api_token)

pwd [str] Rundeck user password (used in combo with usr)

api_version [int] Rundeck API version

verify_cert [bool] Server certificate verification (HTTPS only)

call (*method, url, params=None, headers=None, data=None, files=None, parse_response=True, **kwargs*)

Format the URL in preparation for making the HTTP request and return a RundeckResponse if requested/necessary

Parameters

method [str] the HTTP request method

url [str] API URL

params [dict({str: str, ...})] a dict of query string params (default: None)

headers [dict({str: str, ...})] a dict of HTTP headers

data [str] the XML or YAML payload necessary for some commands (default: None)

files [dict({str: str, ...})] a dict of files to upload

parse_response [bool] parse the response as an xml message

Keywords passed along to `RundeckConnection.request`

Return type requests.Response

make_api_url (*api_url*)

Creates a valid Rundeck URL based on the API and the base url of the RundeckConnection

Parameters

api_url [str] the Rundeck API URL

Return type str

Returns full Rundeck API URL

make_url (*path*)

Creates a valid Rundeck URL based base url of the RundeckConnection

Parameters

path [str] the Rundeck http URL path

Return type str

Returns full Rundeck URL

request (*method, url, params=None, headers=None, data=None, files=None*)

Sends the HTTP request to Rundeck

Parameters

method [str] the HTTP request method

url [str] API URL

params [dict({str: str, ...})] a dict of query string params (default: None)

data [str] the url encoded payload necessary for some commands (default: None)

files [dict({str: str, ...})] a dict of files to upload

Return type requests.Response

class `rundeck.connection.RundeckResponse` (*response, client_api_version, as_dict_method=None*)

__init__ (*response, client_api_version, as_dict_method=None*)

Parses an XML string into a convenient Python object

Parameters

response [requests.Response] an instance of the requests.Response returned by the associated command request

api_version

as_dict

message

pprint (**args, **kwargs*)

raise_for_error (*msg=None*)

success

`rundeck.connection.memoize` (*obj*)

4.1.5 rundeck.defaults

summary Default values

license Apache License, Version 2.0

author Mark LaPerriere

contact rundeckrun@mindmind.com

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```
class rundeck.defaults.DupeOption
```

```
    CREATE = 'create'
    SKIP = 'skip'
    UPDATE = 'update'
    keys = ['SKIP', 'CREATE', 'values', 'UPDATE']
    values = ['skip', 'create', 'update']
```

```
class rundeck.defaults.ExecutionOutputFormat
```

```
    TEXT = 'text'
    XML = 'xml'
    YAML = 'yaml'
    keys = ['XML', 'YAML', 'values', 'TEXT']
    values = ['xml', 'yaml', 'text']
```

```
class rundeck.defaults.JobDefFormat
```

```
    XML = 'xml'
    YAML = 'yaml'
    keys = ['XML', 'YAML', 'values']
    values = ['xml', 'yaml']
```

```
class rundeck.defaults.Status
```

```
    ABORTED = 'aborted'
    FAILED = 'failed'
    PENDING = 'pending'
    RUNNING = 'running'
    SKIPPED = 'skipped'
    SUCCEEDED = 'succeeded'
    keys = ['FAILED', 'RUNNING', 'SKIPPED', 'values', 'ABORTED', 'SUCCEEDED', 'PENDING']
    values = ['failed', 'running', 'skipped', 'aborted', 'succeeded', 'pending']
```

```
class rundeck.defaults.UuidOption
```

```
    PRESERVE = 'preserve'
    REMOVE = 'remove'
    keys = ['PRESERVE', 'values', 'REMOVE']
    values = ['preserve', 'remove']
```

```
rundeck.defaults.enum(name, *sequential, **named)
```

4.1.6 `rundeck.exceptions`

summary Exceptions

license Apache License, Version 2.0

author Mark LaPerriere

contact rundeckrun@mindmind.com

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exception `rundeck.exceptions.ApiVersionNotSupported`

This library does not support the version of the API requested

exception `rundeck.exceptions.InvalidAuthentication`

The method of authentication is not valid

exception `rundeck.exceptions.InvalidDupeOption`

The `dupeOption` specified is invalid

exception `rundeck.exceptions.InvalidJobArgument`

The Job name or ID is not valid

exception `rundeck.exceptions.InvalidJobDefinitionFormat`

The specified job definition format is not supported

exception `rundeck.exceptions.InvalidResourceSpecification`

The resource specified does not meet requirements.

exception `rundeck.exceptions.InvalidResponseFormat`

The requested response format is not supported

exception `rundeck.exceptions.InvalidUuidOption`

The `uuidOption` specified is invalid

exception `rundeck.exceptions.JobNotFound`

The Job could not be found in the Project

exception `rundeck.exceptions.MissingProjectArgument`

The requested action requires a Project name to be supplied

exception `rundeck.exceptions.RundeckServerError` (**args*, ***kwargs*)

Base exceptions generated by the Rundeck server

`__init__` (**args*, ***kwargs*)

4.1.7 `rundeck.transforms`

summary Transformations for `RundeckResponses` to simple dicts for consumption

license Apache License, Version 2.0

author Mark LaPerriere

contact rundeckrun@mindmind.com

copyright Mark LaPerriere 2015

requires requests

`rundeck.transforms.events` (*resp*)

`rundeck.transforms.execution` (*resp*)

`rundeck.transforms.execution_abort` (*resp*)

`rundeck.transforms.execution_output` (*resp*)

`rundeck.transforms.executions` (*resp*)

`rundeck.transforms.is_transform` (*func*)

A simple decorator that marks a function as a “trasform” which allows the transform decorator to only reference functions that are specifically intended to transform client method call responses.

`rundeck.transforms.job_import_status` (*resp*)

`rundeck.transforms.jobs` (*resp*)

`rundeck.transforms.jobs_delete` (*resp*)

`rundeck.transforms.project` (*resp*)

`rundeck.transforms.project_resources` (*resp*)

`rundeck.transforms.projects` (*resp*)

`rundeck.transforms.run_execution` (*resp*)

`rundeck.transforms.success_message` (*resp*)

`rundeck.transforms.system_info` (*resp*)

`rundeck.transforms.transform` (*resp_type*)

A decorator to take a RundeckResponse and pass it through one of the is_transform marked functions above

4.1.8 rundeck.util

summary Utility functions for the package

license Apache License, Version 2.0

author Mark LaPerriere

contact rundeckrun@mindmind.com

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`rundeck.util.attr2dict` (*el*)

Turns an elements attrib dict into... wait for it... a dict. Yea, it’s silly to me too. But, according to the ElementTree docs, using the Element.attrib attribute directly is not recommended - don’t look at me - I just work here.

Parameters *el* : ElementTree.Element

Returns a dictionary of element attrib key/value pairs

Return type dict

`rundeck.util.child2dict` (*el*)

Turns an ElementTree.Element’s children into a dict using the node names as dict keys and and the node text as dict values

Parameters *el* : ElementTree.Element

Returns a dictionary of element key(tag name)/value(node text) pairs

Return type dict

`rundeck.util.cull_kwargs` (*api_keys*, *kwargs*)

Strips out the api_params from kwargs based on the list of api_keys !! modifies kwargs inline

Parameters

api_keys [list | set | tuple] an iterable representing the keys of the key value pairs to pull out of kwargs

kwargs [dict] a dictionary of kwargs

Returns a dictionary the API params

Return type dict

`rundeck.util.dict2argstring(argString)`

Converts an argString dict into a string otherwise returns the string unchanged

Parameters

argString [str | dict] argument string to pass to job - if str, will be passed as-is else if dict will be converted to compatible string

Returns an argString

Return type str

`rundeck.util.node2dict(el)`

Combines both the attr2dict and child2dict functions

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