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# nexus3-cli Documentation

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## COMMAND-LINE INTERFACE

Logging level can be configured by setting an environment variable named `LOG_LEVEL`. Valid values are: `DEBUG`, `INFO`, `WARNING` (default), `ERROR`, `CRITICAL`.

### 1.1 nexus3

```
nexus3 [OPTIONS] COMMAND [ARGS]...
```

#### Options

**--version**

Show the version and exit.

#### 1.1.1 cleanup-policy

Manage clean-up policies.

```
nexus3 cleanup-policy [OPTIONS] COMMAND [ARGS]...
```

**create**

Create or update a cleanup policy called `NAME`.

```
nexus3 cleanup-policy create [OPTIONS] NAME
```

#### Options

**--format** <format>

The recipe that this cleanup policy can be applied to

**Options** `alllaptlbowerldockerlmavenlnpmlnugetlpypilrawlrubygemslyum`

**--downloaded** <downloaded>

Cleanup criteria; last downloaded in this many days.

**--updated** <updated>

Cleanup criteria; last updated in this many days.

**--regex** <regex>  
Cleanup criteria; only cleanup components matching expression

**--notes** <notes>  
Notes about your policy

### Arguments

**NAME**  
Required argument

#### list

```
nexus3 cleanup-policy list [OPTIONS]
```

### 1.1.2 delete

Recursively delete all files under REPOSITORY\_PATH.  
REPOSITORY\_PATH must start with a repository name.

```
nexus3 delete [OPTIONS] REPOSITORY_PATH
```

### Arguments

**REPOSITORY\_PATH**  
Required argument

### 1.1.3 download

Download remote SRC to local DEST. If either argument ends with a /, it's assumed to be a directory.  
SRC must start with a repository name and optionally be followed by a path to be downloaded.

```
nexus3 download [OPTIONS] SRC DST
```

### Options

**--flatten, --no-flatten**  
Flatten DEST directory structure

**--cache, --no-cache**  
Do not download if a local copy is already up-to-date

## Arguments

**SRC**

Required argument

**DST**

Required argument

### 1.1.4 list

List all files within REPOSITORY\_PATH.

REPOSITORY\_PATH must start with a repository name.

```
nexus3 list [OPTIONS] REPOSITORY_PATH
```

## Arguments

**REPOSITORY\_PATH**

Required argument

### 1.1.5 login

Login to Nexus server, saving settings to ~/.nexus-cli.

```
nexus3 login [OPTIONS]
```

## Options

**-U, --url** <url>

Nexus OSS URL [default: <http://localhost:8081>]

**-u, --username** <username>

Nexus user [default: admin]

**-p, --password** <password>

Password for user

**--x509\_verify, --no-x509\_verify**

Verify server certificate [default: True]

### 1.1.6 repository

Manage repositories.

```
nexus3 repository [OPTIONS] COMMAND [ARGS]...
```

### create

Create a repository.

```
nexus3 repository create [OPTIONS] COMMAND [ARGS]...
```

### hosted

Create a hosted repository.

```
nexus3 repository create hosted [OPTIONS] COMMAND [ARGS]...
```

### apt

Create a hosted apt repository.

```
nexus3 repository create hosted apt [OPTIONS] REPOSITORY_NAME
```

### Options

**--blob-store-name** <blob\_store\_name>  
Blobstore name to use with new repository

**--strict-content, --no-strict-content**  
Toggle strict content type validation

**--cleanup-policy** <cleanup\_policy>  
Name of existing clean-up policy to use

**--write-policy** <write\_policy>  
Write policy to use

**Options** allow|allow\_once|deny

**--distribution** <distribution>  
Distribution to fetch; e.g.: bionic [required]

**--gpg-keypair** <gpg\_keypair>  
Path to GPG signing key [required]

**--passphrase** <passphrase>  
Passphrase for GPG key pair

### Arguments

**REPOSITORY\_NAME**  
Required argument



## docker

Create a hosted docker repository.

```
nexus3 repository create hosted docker [OPTIONS] REPOSITORY_NAME
```

### Options

**--blob-store-name** <blob\_store\_name>

Blobstore name to use with new repository

**--strict-content, --no-strict-content**

Toggle strict content type validation

**--cleanup-policy** <cleanup\_policy>

Name of existing clean-up policy to use

**--write-policy** <write\_policy>

Write policy to use

**Options** allow|allow\_onceldeny

**--v1-enabled, --no-v1-enabled**

Enable v1 registry

**--force-basic-auth, --no-force-basic-auth**

Force use of basic authentication

**--http-port** <http\_port>

Port for HTTP service

**--https-port** <https\_port>

Port for HTTPS service

### Arguments

**REPOSITORY\_NAME**

Required argument

## maven

Create a hosted maven repository.

```
nexus3 repository create hosted maven [OPTIONS] REPOSITORY_NAME
```

## Options

**--blob-store-name** <blob\_store\_name>  
Blobstore name to use with new repository

**--strict-content, --no-strict-content**  
Toggle strict content type validation

**--cleanup-policy** <cleanup\_policy>  
Name of existing clean-up policy to use

**--write-policy** <write\_policy>  
Write policy to use

**Options** allowlallow\_onceldeny

**--version-policy** <version\_policy>  
Version policy to use

**Options** releaselsnapshotmixed

**--layout-policy** <layout\_policy>  
Layout policy to use

**Options** strictlpermissive

## Arguments

**REPOSITORY\_NAME**  
Required argument

## recipe

Create a hosted repository.

```
nexus3 repository create hosted recipe [OPTIONS] REPOSITORY_NAME
```

## Options

**--blob-store-name** <blob\_store\_name>  
Blobstore name to use with new repository

**--strict-content, --no-strict-content**  
Toggle strict content type validation

**--cleanup-policy** <cleanup\_policy>  
Name of existing clean-up policy to use

**--write-policy** <write\_policy>  
Write policy to use

**Options** allowlallow\_onceldeny

## Arguments

### **REPOSITORY\_NAME**

Required argument

## yum

Create a hosted yum repository.

```
nexus3 repository create hosted yum [OPTIONS] REPOSITORY_NAME
```

## Options

**--blob-store-name** <blob\_store\_name>

Blobstore name to use with new repository

**--strict-content, --no-strict-content**

Toggle strict content type validation

**--cleanup-policy** <cleanup\_policy>

Name of existing clean-up policy to use

**--write-policy** <write\_policy>

Write policy to use

**Options** allow|allow\_once|deny

**--depth** <depth>

Depth where repodata folder(s) exist

## Arguments

### **REPOSITORY\_NAME**

Required argument

## proxy

Create a proxy repository.

```
nexus3 repository create proxy [OPTIONS] COMMAND [ARGS]...
```

## apt

Create a proxy apt repository.

```
nexus3 repository create proxy apt [OPTIONS] REPOSITORY_NAME REMOTE_URL
```

## Options

**--blob-store-name** <blob\_store\_name>  
Blobstore name to use with new repository

**--strict-content, --no-strict-content**  
Toggle strict content type validation

**--cleanup-policy** <cleanup\_policy>  
Name of existing clean-up policy to use

**--auto-block, --no-auto-block**  
Disable outbound connections on remote-url access errors

**--negative-cache, --no-negative-cache**  
Cache responses for content missing in the remote-url

**--negative-cache-ttl** <negative\_cache\_ttl>  
Cache time in minutes

**--content-max-age** <content\_max\_age>  
Maximum age of cached artefacts

**--metadata-max-age** <metadata\_max\_age>  
Maximum age of cached artefacts metadata

**--remote-auth-type** <remote\_auth\_type>  
Only username is supported

**Options** username

**--remote-username** <remote\_username>  
Username for remote URL

**--remote-password** <remote\_password>  
Password for remote URL

**--distribution** <distribution>  
Distribution to fetch; e.g.: bionic [required]

**--flat, --no-flat**  
Is this repository flat?

## Arguments

**REPOSITORY\_NAME**  
Required argument

**REMOTE\_URL**  
Required argument

## docker

Create a docker proxy repository.

```
nexus3 repository create proxy docker [OPTIONS] REPOSITORY_NAME REMOTE_URL
```

### Options

- blob-store-name** <blob\_store\_name>  
Blobstore name to use with new repository
- strict-content, --no-strict-content**  
Toggle strict content type validation
- cleanup-policy** <cleanup\_policy>  
Name of existing clean-up policy to use
- auto-block, --no-auto-block**  
Disable outbound connections on remote-url access errors
- negative-cache, --no-negative-cache**  
Cache responses for content missing in the remote-url
- negative-cache-ttl** <negative\_cache\_ttl>  
Cache time in minutes
- content-max-age** <content\_max\_age>  
Maximum age of cached artefacts
- metadata-max-age** <metadata\_max\_age>  
Maximum age of cached artefacts metadata
- remote-auth-type** <remote\_auth\_type>  
Only username is supported  
**Options** username
- remote-username** <remote\_username>  
Username for remote URL
- remote-password** <remote\_password>  
Password for remote URL
- v1-enabled, --no-v1-enabled**  
Enable v1 registry
- force-basic-auth, --no-force-basic-auth**  
Force use of basic authentication
- http-port** <http\_port>  
Port for HTTP service
- https-port** <https\_port>  
Port for HTTPS service
- index-type** <index\_type>  
Docker index type  
**Options** registry|hub|custom
- index-url** <index\_url>  
Required for --index-type custom

**--trust-store, --no-trust-store**  
Required for `-index-type` hub or custom

### Arguments

**REPOSITORY\_NAME**  
Required argument

**REMOTE\_URL**  
Required argument

### maven

Create a maven proxy repository.

```
nexus3 repository create proxy maven [OPTIONS] REPOSITORY_NAME REMOTE_URL
```

### Options

**--blob-store-name** <blob\_store\_name>  
Blobstore name to use with new repository

**--strict-content, --no-strict-content**  
Toggle strict content type validation

**--cleanup-policy** <cleanup\_policy>  
Name of existing clean-up policy to use

**--auto-block, --no-auto-block**  
Disable outbound connections on remote-url access errors

**--negative-cache, --no-negative-cache**  
Cache responses for content missing in the remote-url

**--negative-cache-ttl** <negative\_cache\_ttl>  
Cache time in minutes

**--content-max-age** <content\_max\_age>  
Maximum age of cached artefacts

**--metadata-max-age** <metadata\_max\_age>  
Maximum age of cached artefacts metadata

**--remote-auth-type** <remote\_auth\_type>  
Only username is supported

**Options** username

**--remote-username** <remote\_username>  
Username for remote URL

**--remote-password** <remote\_password>  
Password for remote URL

**--version-policy** <version\_policy>  
Version policy to use

**Options** releaselsnapshotmixed

**--layout-policy** <layout\_policy>

Layout policy to use

**Options** strict|permissive

## Arguments

**REPOSITORY\_NAME**

Required argument

**REMOTE\_URL**

Required argument

## recipe

Create a proxy repository.

```
nexus3 repository create proxy recipe [OPTIONS] REPOSITORY_NAME REMOTE_URL
```

## Options

**--blob-store-name** <blob\_store\_name>

Blobstore name to use with new repository

**--strict-content, --no-strict-content**

Toggle strict content type validation

**--cleanup-policy** <cleanup\_policy>

Name of existing clean-up policy to use

**--auto-block, --no-auto-block**

Disable outbound connections on remote-url access errors

**--negative-cache, --no-negative-cache**

Cache responses for content missing in the remote-url

**--negative-cache-ttl** <negative\_cache\_ttl>

Cache time in minutes

**--content-max-age** <content\_max\_age>

Maximum age of cached artefacts

**--metadata-max-age** <metadata\_max\_age>

Maximum age of cached artefacts metadata

**--remote-auth-type** <remote\_auth\_type>

Only username is supported

**Options** username

**--remote-username** <remote\_username>

Username for remote URL

**--remote-password** <remote\_password>

Password for remote URL

## Arguments

**REPOSITORY\_NAME**

Required argument

**REMOTE\_URL**

Required argument

## yum

Create a yum proxy repository.

```
nexus3 repository create proxy yum [OPTIONS] REPOSITORY_NAME REMOTE_URL
```

## Options

**--blob-store-name** <blob\_store\_name>

Blobstore name to use with new repository

**--strict-content, --no-strict-content**

Toggle strict content type validation

**--cleanup-policy** <cleanup\_policy>

Name of existing clean-up policy to use

**--auto-block, --no-auto-block**

Disable outbound connections on remote-url access errors

**--negative-cache, --no-negative-cache**

Cache responses for content missing in the remote-url

**--negative-cache-ttl** <negative\_cache\_ttl>

Cache time in minutes

**--content-max-age** <content\_max\_age>

Maximum age of cached artefacts

**--metadata-max-age** <metadata\_max\_age>

Maximum age of cached artefacts metadata

**--remote-auth-type** <remote\_auth\_type>

Only username is supported

**Options** username

**--remote-username** <remote\_username>

Username for remote URL

**--remote-password** <remote\_password>

Password for remote URL



## Arguments

**REPOSITORY\_NAME**

Required argument

**REMOTE\_URL**

Required argument

## delete

Delete REPOSITORY\_NAME (but not its blobstore).

```
nexus3 repository delete [OPTIONS] REPOSITORY_NAME
```

## Options

**--yes**

Confirm the action without prompting.

## Arguments

**REPOSITORY\_NAME**

Required argument

## list

List all repositories.

```
nexus3 repository list [OPTIONS]
```

## show

Show the configuration for REPOSITORY\_NAME as JSON.

```
nexus3 repository show [OPTIONS] REPOSITORY_NAME
```

## Arguments

**REPOSITORY\_NAME**

Required argument

### 1.1.7 script

Manage scripts.

```
nexus3 script [OPTIONS] COMMAND [ARGS]...
```

#### create

Create a new script called NAME from FILE.

```
nexus3 script create [OPTIONS] NAME FILE
```

#### Options

**--script-type** <script\_type>  
Script type

#### Arguments

**NAME**  
Required argument

**FILE**  
Required argument

#### delete

Delete the script called NAME.

```
nexus3 script delete [OPTIONS] NAME
```

#### Arguments

**NAME**  
Required argument

#### list

List all scripts.

```
nexus3 script list [OPTIONS]
```

## run

Run the script called NAME.

```
nexus3 script run [OPTIONS] NAME
```

### Options

**-a, --script-arguments** <script\_arguments>

### Arguments

#### **NAME**

Required argument

## 1.1.8 upload

Upload local SRC to remote DST. If either argument ends with a /, it's assumed to be a directory.

DEST must start with a repository name and optionally be followed by the path where SRC is to be uploaded to.

```
nexus3 upload [OPTIONS] SRC DST
```

### Options

**--flatten, --no-flatten**  
Flatten DST directory structure

**--recurse, --no-recurse**  
Process all SRC subdirectories

### Arguments

#### **SRC**

Required argument

#### **DST**

Required argument



## 2.1 nexuscli

### 2.1.1 nexuscli package

#### Subpackages

#### nexuscli.api package

#### Subpackages

#### nexuscli.api.cleanup\_policy package

#### Submodules

#### nexuscli.api.cleanup\_policy.collection module

**class** `nexuscli.api.cleanup_policy.collection.CleanupPolicyCollection` (*client=None*)

Bases: `object`

A class to manage Nexus 3 Cleanup Policies.

**Parameters** `client` (`nexuscli.nexus_client.NexusClient`) – the client instance that will be used to perform operations against the Nexus 3 service. You must provide this at instantiation or set it before calling any methods that require connectivity to Nexus.

**GROOVY\_SCRIPT\_NAME** = `'nexus3-cli-cleanup-policy'`

Default Groovy script used by this class

**create\_or\_update** (*cleanup\_policy*)

Creates the given Cleanup Policy in the Nexus repository. If a policy with the same name already exists, it will be updated.

**Parameters** `cleanup_policy` (`CleanupPolicy`) – the policy to create or update.

**Raises** `exception.NexusClientCreateCleanupPolicyError` – when the Nexus API returns an error or unexpected result.

**get\_by\_name** (*name*)

Get a Nexus 3 cleanup policy by its name.

**Parameters** `name` (*str*) – name of the wanted policy

**Returns** the requested object

**Return type** *CleanupPolicy*

**Raises** *exception.NexusClientInvalidRepository* – when a repository with the given name isn't found.

**list()**

Return all cleanup policies.

**Returns** every policy as a list of *CleanupPolicy* instances.

**Return type** *list[CleanupPolicy]*

## nexuscli.api.cleanup\_policy.model module

**class** `nexuscli.api.cleanup_policy.model.CleanupPolicy`(*client*, *\*\*kwargs*)

Bases: *object*

Represents a Nexus Cleanup Policy.

Example structure and attributes common to all repositories:

```
>>> kwargs = {
>>>     'name': 'my-policy',
>>>     'format': 'bower',
>>>     'notes': 'Some comment',
>>>     'criteria': {
>>>         'lastDownloaded': 172800,
>>>         'lastBlobUpdated': 86400,
>>>         'regex': 'matchthis'
>>>     }
>>> }
```

### Parameters

- **client** (*nexuscli.nexus\_client.NexusClient*) – the client instance that will be used to perform operations against the Nexus 3 service. You must provide this at instantiation or set it before calling any methods that require connectivity to Nexus.
- **name** (*str*) – name of the new policy.
- **format** (*str*) – ‘all’ or the format of the repository this policy applies to.
- **lastDownloaded** (*int*) – deletion criterion: days since artefact last downloaded
- **lastBlobUpdated** (*int*) – deletion criterion: days since last update to artefact
- **regex** (*str*) – deletion criterion: only delete artefacts that match this regular expression

### property configuration

Nexus 3 Cleanup Policy representation as a python dict. The dict returned by this property can be converted to JSON for use with the `nexus3-cli-cleanup-policy` groovy script created by the *CleanupPolicyCollection* methods.

**Returns** cleanup policy as a dict

**Return type** *dict*

## Module contents

### nexuscli.api.repository package

#### Submodules

#### nexuscli.api.repository.collection module

**class** `nexuscli.api.repository.collection.RepositoryCollection` (*client=None*)  
 Bases: `object`

A class to manage Nexus 3 repositories.

**Parameters** `client` (`nexuscli.nexus_client.NexusClient`) – the client instance that will be used to perform operations against the Nexus 3 service. You must provide this at instantiation or set it before calling any methods that require connectivity to Nexus.

**create** (*repository*)  
 Creates a Nexus repository with the given format and type.

**Parameters** `repository` (`Repository`) – the instance containing the settings for the repository to be created.

**Raises** `NexusClientCreateRepositoryError` – error creating repository.

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

**Parameters** `name` (*str*) – name of the repository to be deleted.

**get\_by\_name** (*name*)  
 Get a Nexus 3 repository by its name.

**Parameters** `name` (*str*) – name of the repository wanted

**Return type** `nexuscli.api.repository.model.Repository`

**Raises** `exception.NexusClientInvalidRepository` – when a repository with the given name isn't found.

**get\_raw\_by\_name** (*name*)  
 Return the raw dict for the repository called name. Remember to `refresh()` to get the latest from the server.

**Parameters** `name` (*str*) – name of the repository wanted

**Return type** `dict`

**Raises** `exception.NexusClientInvalidRepository` – when a repository with the given name isn't found.

**raw\_list** ()  
 A raw representation of the Nexus repositories.

**Returns** for the format, see [List Repositories](#).

**Return type** `dict`

**refresh** ()  
 Refresh local list of repositories with latest from service. A raw representation of repositories can be fetched using `raw_list()`.

`nexuscli.api.repository.collection.get_repository_class(raw_configuration)`

Given a raw repository configuration, returns its corresponding class.

**Parameters** `raw_configuration` (*dict*) – configuration as returned by the `SCRIPT_NAME_GET` groovy script.

**Returns** repository class

## nexuscli.api.repository.model module

**class** `nexuscli.api.repository.model.AptHostedRepository` (*name*, *gpg\_keypair*: *str* = *None*, *passphrase*=*None*, *\*\*kwargs*)

Bases: `nexuscli.api.repository.model.AptRepository`, `nexuscli.api.repository.model.HostedRepository`

**property configuration**

As per `Repository.configuration` but specific to this repository recipe and type.

**Return type** *str*

**class** `nexuscli.api.repository.model.AptProxyRepository` (*name*, *flat*=*False*, *\*\*kwargs*)

Bases: `nexuscli.api.repository.model.AptRepository`, `nexuscli.api.repository.model.ProxyRepository`

**property configuration**

As per `Repository.configuration` but specific to this repository recipe and type.

**Return type** *str*

**class** `nexuscli.api.repository.model.AptRepository` (*name*, *distribution*='bionic', *\*\*kwargs*)

Bases: `nexuscli.api.repository.model.Repository`

**RECIPES** = ('apt',)

**property configuration**

Repository configuration represented as a python dict. The dict returned by this property can be converted to JSON for use with the `nexus3-cli-repository-create` groovy script created by the `create()` method.

Example structure and attributes common to all repositories:

```
>>> common_configuration = {
>>>     'name': 'my-repository',
>>>     'online': True,
>>>     'recipeName': 'raw',
>>>     '_state': 'present',
>>>     'attributes': {
>>>         'storage': {
>>>             'blobStoreName': 'default',
>>>         },
>>>         'cleanup': {
>>>             'policyName': None,
>>>         }
>>>     }
>>> }
```

Depending on the repository type and format (recipe), other attributes will be present.



**Returns** repository configuration

**Return type** dict

```
class nexuscli.api.repository.model.BowerHostedRepository (name,
                                                         write_policy='ALLOW',
                                                         **kwargs)
```

Bases: `nexuscli.api.repository.model.HostedRepository`

```
class nexuscli.api.repository.model.BowerProxyRepository (name, remote_url=None,
                                                         auto_block=True, content_max_age=1440,
                                                         meta-
                                                         data_max_age=1440,
                                                         nega-
                                                         tive_cache_enabled=True,
                                                         nega-
                                                         tive_cache_ttl=1440,
                                                         remote_auth_type=None,
                                                         remote_username=None,
                                                         remote_password=None,
                                                         **kwargs)
```

Bases: `nexuscli.api.repository.model.ProxyRepository`

```
class nexuscli.api.repository.model.DockerHostedRepository (name,
                                                         write_policy='ALLOW',
                                                         **kwargs)
```

Bases: `nexuscli.api.repository.model.HostedRepository`, `nexuscli.api.repository.model.DockerRepository`

```
class nexuscli.api.repository.model.DockerProxyRepository (name, index-
                                                         dex_type='REGISTRY',
                                                         use_trust_store_for_index_access=False,
                                                         in-
                                                         dex_url='https://index.docker.io/',
                                                         **kwargs)
```

Bases: `nexuscli.api.repository.model.ProxyRepository`, `nexuscli.api.repository.model.DockerRepository`

**INDEX\_TYPES** = ('REGISTRY', 'HUB', 'CUSTOM')

**property configuration**

As per `Repository.configuration` but specific to this repository recipe and type.

**Return type** str

```
class nexuscli.api.repository.model.DockerRepository (name, http_port=8084,
                                                         https_port=8085,
                                                         v1_enabled=False,
                                                         force_basic_auth=False,
                                                         **kwargs)
```

Bases: `nexuscli.api.repository.model.Repository`

**RECIPES** = ('docker',)

**property configuration**

As per `Repository.configuration` but specific to this repository recipe and type.

**Return type** str

```
class nexuscli.api.repository.model.HostedRepository (name, write_policy='ALLOW',  
                                                    **kwargs)
```

Bases: `nexuscli.api.repository.model.Repository`

A hosted Nexus repository.

#### Parameters

- **name** (*str*) – name of the repository.
- **write\_policy** (*str*) – one of `WRITE_POLICIES`. See Nexus documentation for details.
- **kwargs** – see `Repository`

**TYPE** = 'hosted'

**WRITE\_POLICIES** = ['ALLOW', 'ALLOW\_ONCE', 'DENY']

Nexus 3 repository write policies supported by this class.

#### property configuration

As per `Repository.configuration` but specific to this repository recipe and type.

#### Return type *str*

**upload\_directory** (*src\_dir*, *dst\_dir*, *recurse*=True, *flatten*=False)

Uploads all files in a directory to the specified destination directory in this repository, honouring options `flatten` and `recurse`.

#### Parameters

- **src\_dir** – path to local directory to be uploaded
- **dst\_dir** – destination directory in `dst_repo`
- **recurse** (*bool*) – when True, upload directory recursively.
- **flatten** – when True, the source directory tree isn't replicated on the destination.

**Returns** number of files uploaded

#### Return type *int*

**upload\_file** (*src\_file*, *dst\_dir*, *dst\_file*=None)

Uploads a single file to the directory and file name specified.

#### Parameters

- **src\_file** – path to the local file to be uploaded.
- **dst\_dir** – directory under `dst_repo` to place file in.
- **dst\_file** – destination file name. If not given, the basename of `src_file` name is used.

```
class nexuscli.api.repository.model.MavenHostedRepository (name,  
                                                         write_policy='ALLOW',  
                                                         **kwargs)
```

Bases: `nexuscli.api.repository.model.HostedRepository`, `nexuscli.api.repository.model.MavenRepository`

A `Maven` hosted Nexus repository.

See `HostedRepository` and `MavenRepository`

```
class nexuscli.api.repository.model.MavenProxyRepository (name, layout_policy='PERMISSIVE',
                                                         version_policy='RELEASE',
                                                         **kwargs)
```

Bases: `nexuscli.api.repository.model.MavenRepository`, `nexuscli.api.repository.model.ProxyRepository`

A **Maven** proxy Nexus repository.

See `MavenRepository` and `ProxyRepository`

```
class nexuscli.api.repository.model.MavenRepository (name, layout_policy='PERMISSIVE',
                                                         version_policy='RELEASE',
                                                         **kwargs)
```

Bases: `nexuscli.api.repository.model.Repository`

A base **Maven** Nexus repository.

#### Parameters

- **name** (*str*) – name of the repository.
- **layout\_policy** – one of `LAYOUT_POLICIES`. See Nexus documentation for details.
- **version\_policy** – one of `VERSION_POLICIES`. See Nexus documentation for details.
- **kwargs** – see `Repository`

```
LAYOUT_POLICIES = ('PERMISSIVE', 'STRICT')
```

Maven layout policies

```
RECIPES = ('maven',)
```

```
VERSION_POLICIES = ('RELEASE', 'SNAPSHOT', 'MIXED')
```

Maven version policies

#### property configuration

As per `Repository.configuration` but specific to this repository recipe and type.

#### Return type *str*

```
class nexuscli.api.repository.model.NpmHostedRepository (name, write_policy='ALLOW',
                                                         **kwargs)
```

Bases: `nexuscli.api.repository.model.HostedRepository`

```
class nexuscli.api.repository.model.NpmProxyRepository (name, remote_url=None,
                                                         auto_block=True, content_max_age=1440,
                                                         metadata_max_age=1440, negative_cache_enabled=True,
                                                         negative_cache_ttl=1440, remote_auth_type=None,
                                                         remote_username=None, remote_password=None,
                                                         **kwargs)
```

Bases: `nexuscli.api.repository.model.ProxyRepository`

```
class nexuscli.api.repository.model.NugetHostedRepository (name,  
                                                         write_policy='ALLOW',  
                                                         **kwargs)
```

Bases: `nexuscli.api.repository.model.HostedRepository`

```
class nexuscli.api.repository.model.NugetProxyRepository (name, remote_url=None,  
                                                         auto_block=True, content_max_age=1440,  
                                                         meta-  
                                                         data_max_age=1440,  
                                                         nega-  
                                                         tive_cache_enabled=True,  
                                                         nega-  
                                                         tive_cache_ttl=1440,  
                                                         remote_auth_type=None,  
                                                         remote_username=None,  
                                                         remote_password=None,  
                                                         **kwargs)
```

Bases: `nexuscli.api.repository.model.ProxyRepository`

```
class nexuscli.api.repository.model.ProxyRepository (name, remote_url=None,  
                                                     auto_block=True, content_max_age=1440, meta-  
                                                     data_max_age=1440, nega-  
                                                     tive_cache_enabled=True,  
                                                     negative_cache_ttl=1440,  
                                                     remote_auth_type=None,  
                                                     remote_username=None,  
                                                     remote_password=None,  
                                                     **kwargs)
```

Bases: `nexuscli.api.repository.model.Repository`

A proxy Nexus repository.

#### Parameters

- **name** (*str*) – name of the repository.
- **remote\_url** (*str*) – The URL of the repository being proxied, including the protocol scheme.
- **auto\_block** (*bool*) – Auto-block outbound connections on the repository if remote peer is detected as unreachable/unresponsive.
- **content\_max\_age** (*int*) – How long (in minutes) to cache artifacts before rechecking the remote repository. Release repositories should use -1.
- **metadata\_max\_age** (*int*) – How long (in minutes) to cache metadata before rechecking the remote repository.
- **negative\_cache\_enabled** (*bool*) – Cache responses for content not present in the proxied repository
- **negative\_cache\_ttl** (*int*) – How long to cache the fact that a file was not found in the repository (in minutes)
- **kwargs** – see `Repository`

```
TYPE = 'proxy'
```

**property configuration**

As per *Repository.configuration* but specific to this repository recipe and type.

**Return type** `str`

```
class nexuscli.api.repository.model.PypiHostedRepository(name,
                                                         write_policy='ALLOW',
                                                         **kwargs)

Bases: nexuscli.api.repository.model.HostedRepository

class nexuscli.api.repository.model.PypiProxyRepository(name, remote_url=None,
                                                         auto_block=True, content_max_age=1440,
                                                         metadata_max_age=1440,
                                                         negative_cache_enabled=True,
                                                         negative_cache_ttl=1440,
                                                         remote_auth_type=None,
                                                         remote_username=None,
                                                         remote_password=None,
                                                         **kwargs)

Bases: nexuscli.api.repository.model.ProxyRepository

class nexuscli.api.repository.model.RawHostedRepository(name,
                                                         write_policy='ALLOW',
                                                         **kwargs)

Bases: nexuscli.api.repository.model.HostedRepository

class nexuscli.api.repository.model.RawProxyRepository(name, remote_url=None,
                                                         auto_block=True, content_max_age=1440,
                                                         metadata_max_age=1440,
                                                         negative_cache_enabled=True,
                                                         negative_cache_ttl=1440,
                                                         remote_auth_type=None,
                                                         remote_username=None,
                                                         remote_password=None,
                                                         **kwargs)

Bases: nexuscli.api.repository.model.ProxyRepository

class nexuscli.api.repository.model.Repository(name, nexus_client=None, recipe='raw',
                                                         blob_store_name='default',
                                                         strict_content_type_validation=False,
                                                         cleanup_policy=None)
```

Bases: `object`

A base Nexus repository.

Nexus 3 repository recipes (formats) supported by this class:

- `bower`
- `npm`
- `nuget`
- `pypi`
- `raw`
- `rubygems`

- `docker`
- `apt`

### Parameters

- **name** (*str*) – name of the repository.
- **nexus\_client** (`nexuscli.nexus_client.NexusClient`) – the *NexusClient* instance that will be used to perform operations against the Nexus 3 service. You must provide this at instantiation or set it before calling any methods that require connectivity to Nexus.
- **recipe** (*str*) – format (recipe) of the new repository. Must be one of *RECIPES*. See Nexus documentation for details.
- **blob\_store\_name** (*str*) – name of an existing blob store; ‘default’ should work on most installations.
- **strict\_content\_type\_validation** (*bool*) – Whether to validate file extension against its content type.
- **cleanup\_policy** (*str*) – name of an existing repository clean-up policy.

`RECIPES = ('bower', 'npm', 'nuget', 'pypi', 'raw', 'rubygems')`

`TYPE = None`

### property cleanup\_policy

Groovy-formatted value for the cleanup/policy attribute.

### property configuration

Repository configuration represented as a python dict. The dict returned by this property can be converted to JSON for use with the `nexus3-cli-repository-create` groovy script created by the `create()` method.

Example structure and attributes common to all repositories:

```
>>> common_configuration = {
>>>     'name': 'my-repository',
>>>     'online': True,
>>>     'recipeName': 'raw',
>>>     '_state': 'present',
>>>     'attributes': {
>>>         'storage': {
>>>             'blobStoreName': 'default',
>>>         },
>>>         'cleanup': {
>>>             'policyName': None,
>>>         }
>>>     }
>>> }
```

Depending on the repository type and format (recipe), other attributes will be present.

**Returns** repository configuration

**Return type** `dict`

### property recipe\_name

The Nexus 3 name for this repository’s recipe (format). This is almost always the same as `name` with `maven` being the notable exception.

```
class nexuscli.api.repository.model.RubygemsHostedRepository (name,
                                                                write_policy='ALLOW',
                                                                **kwargs)
```

Bases: *nexuscli.api.repository.model.HostedRepository*

```
class nexuscli.api.repository.model.RubygemsProxyRepository (name,
                                                                remote_url=None,
                                                                auto_block=True,
                                                                content_max_age=1440,
                                                                metadata_max_age=1440,
                                                                negative_cache_enabled=True,
                                                                negative_cache_ttl=1440,
                                                                remote_auth_type=None,
                                                                remote_username=None,
                                                                remote_password=None,
                                                                **kwargs)
```

Bases: *nexuscli.api.repository.model.ProxyRepository*

```
class nexuscli.api.repository.model.YumHostedRepository (name,
                                                         write_policy='ALLOW',
                                                         **kwargs)
```

Bases: *nexuscli.api.repository.model.HostedRepository*, *nexuscli.api.repository.model.YumRepository*

A **Yum** hosted Nexus repository.

See *HostedRepository* and *YumRepository*

```
class nexuscli.api.repository.model.YumProxyRepository (name,
                                                         remote_url=None,
                                                         auto_block=True,
                                                         content_max_age=1440,
                                                         metadata_max_age=1440,
                                                         negative_cache_enabled=True,
                                                         negative_cache_ttl=1440,
                                                         remote_auth_type=None,
                                                         remote_username=None,
                                                         remote_password=None,
                                                         **kwargs)
```

Bases: *nexuscli.api.repository.model.ProxyRepository*, *nexuscli.api.repository.model.YumRepository*

A **Yum** proxy Nexus repository.

See *ProxyRepository* and *YumRepository*

```
class nexuscli.api.repository.model.YumRepository (name, depth=1, **kwargs)
```

Bases: *nexuscli.api.repository.model.Repository*

A **Yum** base Nexus repository.

#### Parameters

- **name** (*str*) – name of the repository.

- **depth** (*int*) – The Yum repodata depth. Usually 1.
- **kwargs** – see *Repository*

**RECIPES** = ('yum',)

#### property configuration

As per *Repository.configuration* but specific to this repository recipe and type.

**Return type** *str*

## nexuscli.api.repository.upload module

Methods to implement upload for specific repository formats (recipes)

`nexuscli.api.repository.upload.upload_file_raw(repository, src_file, dst_dir, dst_file)`

Upload a single file to a raw repository.

#### Parameters

- **repository** (`nexuscli.api.repository.model.Repository`) – repository instance used to access Nexus 3 service.
- **src\_file** – path to the local file to be uploaded.
- **dst\_dir** – directory under dst\_repo to place file in. When None, the file is placed under the root of the raw repository
- **dst\_file** – destination file name.

#### Raises

- *exception.NexusClientInvalidRepositoryPath* – invalid repository path.
- *exception.NexusClientAPIError* – unknown response from Nexus API.

`nexuscli.api.repository.upload.upload_file_yum(repository, src_file, dst_dir, dst_file)`

Upload a single file to a yum repository.

#### Parameters

- **repository** (`nexuscli.api.repository.model.Repository`) – repository instance used to access Nexus 3 service.
- **src\_file** – path to the local file to be uploaded.
- **dst\_dir** – directory under dst\_repo to place file in.
- **dst\_file** – destination file name.

**Raises** *exception.NexusClientAPIError* – unknown response from Nexus API.

## nexuscli.api.repository.util module

`nexuscli.api.repository.util.get_files(src_dir, recurse=True)`

Walks the given directory and collects files to be uploaded. If recurse option is False, only the files on the root of the directory will be returned.

#### Parameters

- **src\_dir** – location of files
- **recurse** – If false, only the files on the root of src\_dir are returned



**Returns** file set to be used with `upload_directory`

**Return type** `set`

`nexuscli.api.repository.util.get_upload_subdirectory(dst_dir, file_path, flatten=False)`

Find the destination subdirectory based on given parameters. This is mostly so the *flatten* option is honoured.

**Parameters**

- **dst\_dir** – destination directory
- **file\_path** – file path, using `REMOTE_PATH_SEPARATOR` as the directory separator.
- **flatten** (*bool*) – when `True`, `sub_directory` will be flattened (ie: `file_path` structure will not be present in the destination directory)

**Returns** the appropriate sub directory in the destination directory.

**Return type** `str`

## nexuscli.api.repository.validations module

`nexuscli.api.repository.validations.ensure_known(target, value, known)`

Validate whether the a target argument is known and supported. The `target` is only used to provide a friendlier message to the user. The given `value` is checked against `known` and supported.

**Parameters**

- **target** (*str*) – name of the target, as known to the end-user.
- **value** (*str*) – value of the target key.
- **known** (*list, tuple*) – known possible values for the target.

**Raises** `ValueError` – if given value is not in `known`.

## Module contents

### nexuscli.api.script package

#### Submodules

### nexuscli.api.script.model module

**class** `nexuscli.api.script.model.Script`

Bases: `object`

A Class representing a Nexus 3 script.

**class** `nexuscli.api.script.model.ScriptCollection(client=None)`

Bases: `object`

A class to manage Nexus 3 scripts.

**Parameters** **client** (`nexuscli.nexus_client.NexusClient`) – the client instance that will be used to perform operations against the Nexus 3 service. You must provide this at instantiation or set it before calling any methods that require connectivity to Nexus.

**client**

as per `client` argument of *ScriptCollection*.

Type *nexuscli.nexus\_client.NexusClient*

**create** (*script\_name*, *script\_content*, *script\_type*='groovy')

Create the given script in the Nexus 3 service.

**Parameters**

- **script\_name** (*str*) – name of script to be created.
- **script\_content** (*str*) – script code.
- **script\_type** (*str*) – type of script to be created.

Raises *exception.NexusClientAPIError* – if the script creation isn't successful; i.e.: any HTTP code other than 204.

**create\_if\_missing** (*name*, *content*=None, *script\_type*='groovy')

Creates a script in the Nexus 3 service IFF a script with the same name doesn't exist. Equivalent to checking if the script exists with *get()* and, if not, creating it with *create()*.

**Parameters**

- **name** (*str*) – name of script to be created.
- **content** (*Union[str, NoneType]*) – script code. If not given, the method will use *nexuscli.nexus\_util.groovy\_script()* to read the script code from a local file.
- **script\_type** (*str*) – type of script to be created.

Raises *exception.NexusClientAPIError* – if the script creation isn't successful; i.e.: any HTTP code other than 204.

**delete** (*script\_name*)

Deletes a script from the Nexus 3 repository.

**Parameters** **script\_name** – name of script to be deleted.

Raises *exception.NexusClientAPIError* – if the Nexus service fails to delete the script; i.e.: any HTTP code other than 204.

**exists** (*name*)

Check if a script exists.

**Parameters** **name** – of script to verify existence.

**Returns** True if it exists, false otherwise

**Return type** *bool*

Raises *exception.NexusClientAPIError* – if the response from the Nexus service isn't recognised; i.e.: any HTTP code other than 200, 404.

**get** (*name*)

Get a Nexus 3 script by name.

**Parameters** **name** – of script to be retrieved.

**Returns** the script or None, if not found

**Return type** *dict, None*

Raises *exception.NexusClientAPIError* – if the response from the Nexus service isn't recognised; i.e.: any HTTP code other than 200, 404.

**list()**

List of all script names on the Nexus 3 service.

**Returns** a list of names

**Return type** `list`

**Raises** `exception.NexusClientAPIError` – if the script names cannot be retrieved; i.e.: any HTTP code other than 200.

**run**(*script\_name*, *data*=")

Runs an existing script on the Nexus 3 service.

**Parameters**

- **script\_name** – name of script to be run.
- **data** – parameters to be passed to the script, via HTTP POST. If the script being run requires a certain format or encoding, you need to prepare it yourself. Typically this is `json.dumps(data)`.

**Returns** the content returned by the script, if any.

**Return type** `str`, `dict`

**Raises** `exception.NexusClientAPIError` – if the Nexus service fails to run the script; i.e.: any HTTP code other than 200.

## Module contents

## Module contents

### nexuscli.cli package

### Submodules

#### nexuscli.cli.root\_commands module

Handles base/root commands (as opposed to subcommands)

`nexuscli.cli.root_commands.cmd_delete(nexus_client, repository_path)`

Performs nexus3 delete

`nexuscli.cli.root_commands.cmd_download(nexus_client, src=None, dst=None, flatten=None, cache=None)`

Performs nexus3 download

`nexuscli.cli.root_commands.cmd_list(nexus_client, repository_path)`

Performs nexus3 list

`nexuscli.cli.root_commands.cmd_login(**kwargs)`

Performs nexus3 login

`nexuscli.cli.root_commands.cmd_upload(nexus_client, src=None, dst=None, flatten=None, recurse=None)`

Performs nexus3 upload

## nexuscli.cli.subcommand\_cleanup\_policy module

`nexuscli.cli.subcommand_cleanup_policy.cmd_create` (*nexus\_client*, *\*\*kwargs*)  
 Performs nexus3 cleanup\_policy create

`nexuscli.cli.subcommand_cleanup_policy.cmd_list` (*nexus\_client*)  
 Performs nexus3 cleanup\_policy list

## nexuscli.cli.subcommand\_repository module

`nexuscli.cli.subcommand_repository.cmd_create` (*ctx*, *repo\_type=None*, *repository\_name=None*, *\*\*kwargs*)  
 Performs nexus3 repository create commands

`nexuscli.cli.subcommand_repository.cmd_delete` (*nexus\_client*, *repository\_name*)  
 Performs nexus3 repository delete

`nexuscli.cli.subcommand_repository.cmd_list` (*nexus\_client*)  
 Performs nexus3 repository list

`nexuscli.cli.subcommand_repository.cmd_show` (*nexus\_client*, *repository\_name*)  
 Performs ``nexus3 repository show

## nexuscli.cli.subcommand\_script module

`nexuscli.cli.subcommand_script.cmd_create` (*nexus\_client*, *name*, *content*, *\*\*kwargs*)  
 Performs nexus3 script create

`nexuscli.cli.subcommand_script.cmd_delete` (*nexus\_client*, *name*)  
 Performs nexus3 script delete

`nexuscli.cli.subcommand_script.cmd_list` (*nexus\_client*)  
 Performs nexus3 script list

`nexuscli.cli.subcommand_script.cmd_run` (*nexus\_client*, *name*, *arguments*)  
 Performs nexus3 script run

## nexuscli.cli.util module

**class** `nexuscli.cli.util.AliasedGroup` (*name=None*, *commands=None*, *\*\*attrs*)  
 Bases: `click.core.Group`

Implements execution of the first partial match for a command. Fails with a message if there are no unique matches.

See: <https://click.palletsprojects.com/en/7.x/advanced/#command-aliases>

`get_command` (*ctx*, *cmd\_name*)  
 Given a context and a command name, this returns a `Command` object if it exists or returns *None*.

`add_options` (*options*)

`get_client` ()  
 Returns a Nexus Client instance. Prints a warning if a configuration file isn't file.

**Return type** `nexuscli.nexus_client.NexusClient`

`nexuscli.cli.util.mapped_commands` (*command\_map: dict*)  
 TODO: document command\_map format

**Parameters** `command_map` –

**Returns**

`nexuscli.cli.util.move_to_key` (*mydict, new\_key, keys\_to\_move*)  
`nexuscli.cli.util.rename_keys` (*mydict: dict, rename\_map: dict*)  
`nexuscli.cli.util.upcase_values` (*mydict: dict, keys=[]*)  
`nexuscli.cli.util.with_nexus_client` (*click\_command*)

## Module contents

### Submodules

#### nexuscli.exception module

**class** `nexuscli.exception.CliReturnCode`

Bases: `enum.Enum`

Error codes returned by `nexuscli.cli`

**API\_ERROR** = 2

**CONNECTION\_ERROR** = 3

**DOWNLOAD\_ERROR** = 4

**INVALID\_CREDENTIALS** = 5

**INVALID\_SUBCOMMAND** = 10

**NO\_FILES** = 1

**POLICY\_NOT\_FOUND** = 20

**REPOSITORY\_NOT\_FOUND** = 30

**SUBCOMMAND\_ERROR** = 11

**SUCCESS** = 0

**UNKNOWN\_ERROR** = 99

**exception** `nexuscli.exception.DownloadError` (*message*)

Bases: `nexuscli.exception.NexusClientBaseError`

Error retrieving artefact from Nexus service.

**exit\_code** = 4

**exception** `nexuscli.exception.NexusClientAPIError` (*message*)

Bases: `nexuscli.exception.NexusClientBaseError`

Unexpected response from Nexus service.

**exit\_code** = 2

**exception** `nexuscli.exception.NexusClientBaseError` (*message*)

Bases: `click.exceptions.ClickException`

**exit\_code** = 99

**exception** `nexuscli.exception.NexusClientConnectionError` (*message*)

Bases: `nexuscli.exception.NexusClientBaseError`

Generic network connector error.

**exit\_code** = 3

**exception** `nexuscli.exception.NexusClientCreateCleanupPolicyError` (*message*)

Bases: `nexuscli.exception.NexusClientBaseError`

Used when a cleanup policy creation operation in Nexus fails.

**exit\_code** = 11

**exception** `nexuscli.exception.NexusClientCreateRepositoryError` (*message*)

Bases: `nexuscli.exception.NexusClientBaseError`

Used when a repository creation operation in Nexus fails.

**exit\_code** = 11

**exception** `nexuscli.exception.NexusClientInvalidCleanupPolicy` (*message*)

Bases: `nexuscli.exception.NexusClientBaseError`

The given cleanup policy does not exist in Nexus.

**exit\_code** = 11

**exception** `nexuscli.exception.NexusClientInvalidCredentials` (*message*)

Bases: `nexuscli.exception.NexusClientBaseError`

Login credentials not accepted by Nexus service. Usually the result of a HTTP 401 response.

**exit\_code** = 5

**exception** `nexuscli.exception.NexusClientInvalidRepository` (*message*)

Bases: `nexuscli.exception.NexusClientBaseError`

The given repository does not exist in Nexus.

**exit\_code** = 30

**exception** `nexuscli.exception.NexusClientInvalidRepositoryPath` (*message*)

Bases: `nexuscli.exception.NexusClientBaseError`

Used when an operation against the Nexus service uses an invalid or non-existent path.

## nexuscli.nexus\_client module

**class** `nexuscli.nexus_client.NexusClient` (*config=None*)

Bases: `object`

A class to interact with Nexus 3's API.

Unless all keyword arguments `url`, `user` and `password` are supplied, the class will attempt to read the configuration file and, if unsuccessful, use defaults.

**Parameters** `config` (`NexusConfig`) – instance containing the configuration for the Nexus service used by this instance.

**property** `cleanup_policies`

Instance of `CleanupPolicyCollection`. This will automatically use the existing instance of `NexusClient` to communicate with the Nexus service.

**delete** (*repository\_path*)

Delete artefacts, recursively if *repository\_path* is a directory.

**Parameters** *repository\_path* (*str*) – location on the repository service.

**Returns** number of deleted files. Negative number for errors.

**Return type** *int*

**download** (*source*, *destination*, *flatten=False*, *nocache=False*)

Process a download. The source must be a valid Nexus 3 repository path, including the repository name as the first component of the path.

The destination must be a local file name or directory.

If a file name is given as destination, the asset may be renamed. The final destination will depend on *flatten*.

**Parameters**

- **source** (*str*) – location of artefact or directory on the repository service.
- **destination** (*str*) – path to the local file or directory.
- **flatten** (*bool*) – if True, the remote path isn't reproduced locally.
- **nocache** (*bool*) – if True, force download of a directory or artefact, ignoring an existing local copy. If false, it will not re-download an existing copy if its checksum matches the one in Nexus (as determined by *nexuscli.nexus\_util.has\_same\_hash()*).

**Returns** number of downloaded files.

**Return type** *int*

**download\_file** (*download\_url*, *destination*)

Download an asset from Nexus artefact repository to local file system.

**Parameters**

- **download\_url** (*str*) – fully-qualified URL to asset being downloaded.
- **destination** (*str*) – file or directory location to save downloaded asset. Must be an existing directory; any exiting file in this location will be overwritten.

**Returns****http\_delete** (*endpoint*, *\*\*kwargs*)

Performs a HTTP DELETE request on the given endpoint.

**Parameters**

- **endpoint** (*str*) – name of the Nexus REST API endpoint.
- **kwargs** – as per *requests.request()*.

**Return type** *requests.Response*

**http\_get** (*endpoint*)

Performs a HTTP GET request on the given endpoint.

**Parameters** *endpoint* (*str*) – name of the Nexus REST API endpoint.

**Return type** *requests.Response*

**http\_head** (*endpoint*)

Performs a HTTP HEAD request on the given endpoint.

**Parameters** *endpoint* (*str*) – name of the Nexus REST API endpoint.

**Return type** `requests.Response`

**http\_post** (*endpoint*, *\*\*kwargs*)

Performs a HTTP POST request on the given endpoint.

**Parameters**

- **endpoint** (*str*) – name of the Nexus REST API endpoint.
- **kwargs** – as per `requests.request()`.

**Return type** `requests.Response`

**http\_put** (*endpoint*, *\*\*kwargs*)

Performs a HTTP PUT request on the given endpoint.

**Parameters**

- **endpoint** (*str*) – name of the Nexus REST API endpoint.
- **kwargs** – as per `requests.request()`.

**Return type** `requests.Response`

**http\_request** (*method*, *endpoint*, *service\_url=None*, *\*\*kwargs*)

Performs a HTTP request to the Nexus REST API on the specified endpoint.

**Parameters**

- **method** – one of `get`, `put`, `post`, `delete`.
- **endpoint** (*str*) – URI path to be appended to the service URL.
- **service\_url** (*str*) – override the default URL to use for the request, which is created by joining `rest_url` and `endpoint`.
- **kwargs** – as per `requests.request()`.

**Return type** `requests.Response`

**list** (*repository\_path*)

List all the artefacts, recursively, in a given `repository_path`.

**Parameters** **repository\_path** (*str*) – location on the repository service.

**Returns** artefacts under `repository_path`.

**Return type** `typing.Iterator[str]`

**list\_raw** (*repository\_path*)

As per `list()` but yields raw Nexus artefacts as dicts.

**Parameters** **repository\_path** (*str*) – location on the repository service.

**Return type** `typing.Iterator[dict]`

**property repositories**

Instance of `RepositoryCollection`. This will automatically use the existing instance of `NexusClient` to communicate with the Nexus service.

**Return type** `RepositoryCollection`

**property rest\_url**

Full URL to the Nexus REST API, based on the `url` and `version` from `config`.

**Return type** `str`



**property scripts**

Instance of *ScriptCollection*. This will automatically use the existing instance of *NexusClient* to communicate with the Nexus service.

**property server\_version**

Parse the Server header from a Nexus request response and return as version information. The method expects the header Server to be present and formatted as, e.g., 'Nexus/3.19.1-01 (OSS)'

**Returns** the parsed version. If it can't be determined, return None.

**Return type** Union[None,semver.VersionInfo]

**split\_component\_path** (*component\_path*)

Splits a given component path into repository, directory, filename.

A Nexus component path for a raw directory must have this format:

```
repository_name/directory[/subdir1...][/|filename]
```

A path ending in / represents a directory; otherwise it represents a filename.

```
>>> dst0 = 'myrepo0/dir/'
>>> dst1 = 'myrepo1/dir/subdir/'
>>> dst2 = 'myrepo2/dir/subdir/file'
>>> dst3 = 'myrepo3/dir/subdir/etc/file.ext'
>>> split_component_path(dst0)
>>> ('myrepo0', 'dir', None)
>>> split_component_path(dst1)
>>> ('myrepo1', 'dir/subdir', None)
>>> split_component_path(dst2)
>>> ('myrepo2', 'dir/subdir', 'file')
>>> split_component_path(dst3)
>>> ('myrepo3', 'dir/subdir/etc', 'file.ext')
```

**Parameters** **component\_path** (*str*) – the Nexus component path, as described above.

**Returns** tuple of (repository\_name, directory, filename). If the given component\_path doesn't represent a file, then the filename is set to None.

**Return type** tuple[str, str, str]

**upload** (*source, destination, recurse=True, flatten=False*)

Process an upload. The source must be either a local file name or directory. The flatten and recurse options are honoured for directory uploads.

The destination must be a valid Nexus 3 repository path, including the repository name as the first component of the path.

**Parameters**

- **source** (*str*) – location of file or directory to be uploaded.
- **destination** (*str*) – destination path in Nexus, including repository name and, if required, directory name (e.g. raw repos require a directory).
- **recurse** (*bool*) – do not process sub directories for uploads to remote
- **flatten** (*bool*) – Flatten directory structure by not reproducing local directory structure remotely

**Returns** number of files uploaded.

**nexuscli.nexus\_config module**

```
class nexuscli.nexus_config.NexusConfig (username='admin', password='',
                                         url='http://localhost:8081', x509_verify=True,
                                         api_version='v1', config_path=None)
```

Bases: `object`

A class to hold Nexus 3's configuration.

Unless keyword arguments `url`, `user` and `password` are supplied, the class will attempt to read the configuration file and, if unsuccessful, use defaults.

**Parameters**

- **username** (*str*) – username for Nexus service at given url.
- **password** (*str*) – password for username above.
- **url** (*str*) – URL to Nexus 3 OSS service.
- **x509\_verify** (*bool*) – toggle certificate validation.
- **api\_version** (*str*) – Nexus REST API version to be used.
- **config\_path** (*str*) – local file containing configuration above in JSON format with these keys: `nexus_url`, `nexus_user`, `nexus_pass` and `nexus_verify`.

**property api\_version**

Current API version in use.

**Return type** *str*

**property auth**

Current username and password as a tuple.

**Return type** *tuple*[*str*, *str*]

**property config\_file**

Path to configuration file, as given by `config_path` during instantiation.

**Return type** *str*

**dump()**

Writes the current configuration to disk under property: `config_file`.

If a file already exists, it will be overwritten. The permission will be set to read/write to the owner only.

**load()**

Load the configuration settings from the file specified by `config_file`.

The configuration file is in JSON format and expects these keys: `nexus_user`, `nexus_pass`, `nexus_url`, `nexus_verify`.

**property to\_dict**

Current instance configuration.

**Return type** *dict*

**property url**

The Nexus service URL

**Return type** *str*

**property x509\_verify**

Whether to validate the x509 certificate when using https to access the Nexus service

**Return type** *str*

## nexuscli.nexus\_util module

`nexuscli.nexus_util.calculate_hash(hash_name, file_path_or_handle)`

Calculate a hash for the given file.

### Parameters

- **hash\_name** (*str*) – name of the hash algorithm in hashlib
- **file\_path\_or\_handle** (*str*) – source file name (*str*) or file handle (file-like) for the hash algorithm.

**Returns** the calculated hash

**Return type** *str*

`nexuscli.nexus_util.ensure_exists(path, is_dir=False)`

Ensures a path exists.

### Parameters

- **path** (*pathlib.Path*) – the path to ensure
- **is\_dir** (*bool*) – whether the path is a directory.

`nexuscli.nexus_util.filtered_list_gen(raw_response, term=None, partial_match=True)`

Iterates over items yielded by `raw_response_gen`, validating that:

1. the *path* dict key is a *str*
2. the *path* value starts with *starts\_with* (if provided)

```
>>> r = [{
>>>     'checksum': {
>>>         'md5': 'd94b865aa7620c46ef8faef7059a311c',
>>>         'sha1': '2186934d880cf24dd9ecc578335e290026695522',
>>>         'sha256': 'b7bb3424a6a6(...)4113bc38fd7807528481a8ffe3cf',
>>>         'sha512': 'e7806f3caa3e(...)3caeb9bbc54bbde286c07f837fdc'
>>>     },
>>>     'downloadUrl': 'http://nexus/repository/repo_name/a/file.ext',
>>>     'format': 'yum',
>>>     'id': 'Y2xvdWRlcmEtbWVudlcj(...)mRiNWU0YjllZWQzMg',
>>>     'path': 'a/fake.rpm',
>>>     'repository': 'cloudera-manager'}]
>>>
>>> for i in filtered_list_gen(r, starts_with='a/fake.rpm')
>>>     print(i['path'])
a/fake.rpm
>>> for i in filtered_list_gen(r, starts_with='b')
>>>     print(i['path'])
# (nothing printed)
```

### Parameters

- **raw\_response** (*iterable*) – an iterable that yields one element of a nexus search response at a time, such as the one returned by `__paginate_get()`.
- **term** (*str*) – if defined, only items with an attribute *path* that starts with the given parameter are returned.
- **partial\_match** (*bool*) – if True, include items whose artefact path starts with the given term.

**Yields** *dict* – items that matched the filter.

`nexuscli.nexus_util.groovy_script(script_name)`

Returns the content for a groovy script located in the package installation path under script/groovy.

E.g.: `groovy_script('foo')` returns the content for the file at `.../site-packages/nexuscli/script/groovy/foo.groovy`.

**Parameters** `script_name` – file name of the groovy script; `.groovy` is appended to this parameter to form the file name.

**Returns** content for the groovy script

**Return type** `str`

`nexuscli.nexus_util.has_same_hash(artefact, filepath)`

Checks if a Nexus artefact has the same hash as a local filepath.

**Parameters**

- **artefact** (*dict*) – as returned by `list_raw()`
- **filepath** – local file path

**Returns** True if artefact and filepath have the same hash.

**Return type** `bool`

`nexuscli.nexus_util.script_for_version(script_name, server_version, versions)`

Determine if a certain nexus server version requires a different version of the given groovy script.

**Parameters**

- **script\_name** – original name of the script.
- **server\_version** – `VersionInfo` for the Nexus server.
- **versions** – list of `VersionInfo`. Each element represents an existing groovy script that must be used with `server_version` or greater.

**Returns** the version-specific name of `script_name`.

`nexuscli.nexus_util.validate_strings(*args)`

Checks that all given arguments have a string type (e.g. `str`, `basestring`, `unicode` etc)

**Parameters** `*args` – values to be validated.

**Returns** True if all arguments are of a string type. False otherwise.

**Return type** `bool`

## Module contents

## 2.2 Examples

Here are some basic operations to get you started. The CLI implementation in `src/nexuscli/cli.py` is another good source of examples.

In all examples below you will need to instantiate a client:

```
>>> import nexuscli
>>> nexus_config = nexuscli.nexus_config.NexusConfig(password='supersecret')
>>> nexus_client = nexuscli.nexus_client.NexusClient(config=nexus_config)
>>> # update the local list of repositories on the client
>>> nexus_client.repositories.refresh()
>>> # retrieve the list of repositories
>>> repositories = nexus_client.repositories.raw_list()
>>> repositories[0]
{'name': 'maven-snapshots',
 'format': 'maven2',
 'type': 'hosted',
 'url': 'http://localhost:8081/repository/maven-snapshots'}
```

### 2.2.1 Create a repository

```
>>> r = nexuscli.repository.Repository(
>>>     'hosted',
>>>     name='my-repository',
>>>     format='raw',
>>>     blob_store_name='default',
>>>     strict_content_type_validation=False,
>>>     write_policy='allow',
>>> )
>>> nexus_client.repositories.create(r)
>>> nexus_client.repositories.get_raw_by_name('my-repository')
{'name': 'my-repository',
 'format': 'raw',
 'type': 'hosted',
 'url': 'http://localhost:8081/repository/my-repository'}
```

### 2.2.2 Delete a repository

```
>>> nexus_client.repositories.delete('my-repository')
```

### 2.2.3 Upload a file

```
>>> repository = nexus_client.repositories.get_by_name('my-repository')
>>> upload_count = repository.upload('/etc/passwd', '/etc/passwd')
>>> print(upload_count)
1
```

## 2.3 Sonatype Nexus 3 API documentation

- REST API
- Script API

## GROOVY SCRIPTS

This package makes use of Groovy scripts to perform actions that are not available through the Nexus 3 REST API.

All scripts added have names starting with `nexus3-cli-`.

```
$ nexus3 script list
Name (type)
nexus3-cli-cleanup-policy (groovy)
nexus3-cli-repository-create (groovy)
```

You can delete them all by running:

```
$ nexus3 script list | awk '{ print $1 }' | xargs --no-run-if-empty -n1 nexus3_
↪script del
Name (type)
```

To increase verbosity of logging for the scripts, create a new logger (e.g.: <http://localhost:8081/#admin/support/logging>) with logger name `org.sonatype.nexus.script.plugin.internal.rest.ScriptResource` and logging level `DEBUG` or `TRACE`.





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