
nexus3-cli Documentation

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Contents:

1	Command-line Interface	1
2	API	3
2.1	nexuscli	3
2.2	Examples	26
2.3	Sonatype Nexus 3 API documentation	27
3	Groovy Scripts	29
4	Indices and tables	31
	Python Module Index	33
	Index	35

CHAPTER 1

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`.

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'`

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.

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 name of the repository format this policy applies to.
- **mode** (`str`) – 'delete'
- **criteria** (`dict`) – the deletion criteria for the policy. Supports one or more of the following attributes:
 - `lastDownloaded` (`int`): days since artefact last downloaded;
 - `lastBlobUpdated` (`int`): days since last update to artefact;

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.

Example structure and attributes common to all repositories:

```
>>> cleanup_policy = {
>>>     'name': 'my-policy',
>>>     'format': 'bower',
>>>     'mode': 'delete',
>>>     'criteria': {
>>>         'lastDownloaded': 172800,
```

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```

>>>         'lastBlobUpdated': 86400
>>>     }
>>> }

```

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

Returns cleanup policy as a dict

Return type dict

nexuscli.api.cleanup_policy.validations module

nexuscli.api.cleanup_policy.validations.**policy_criteria**(raw_policy)

Ensures the policy criteria fields are valid. Will transform strings to the correct type where needed.

Parameters raw_policy – as returned by the *CleanupPolicy configuration*

Raises **ValueError** – when a criterion has an invalid value.

nexuscli.api.cleanup_policy.validations.**policy_name**(raw_policy)

Ensure the policy has a name

Raises **ValueError** – when the name attribute is missing.

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.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,  
                                                           **kwargs)
```

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

```
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.

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,
                                                           lay-
                                                           out_policy='PERMISSIVE',
                                                           ver-
                                                           sion_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

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, **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,
                                                         negative_cache_enabled=True,
                                                         negative_cache_ttl=1440,
                                                         **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, negative_cache_enabled=True,
                                                    negative_cache_ttl=1440,
                                                    **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'

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,
                                                         **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,
                                                         **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`

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

cleanup_policy

Groovy-formatted value for the cleanup/policy attribute.

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

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, re-
                                                                mote_url=None,
                                                                auto_block=True,
                                                                con-
                                                                tent_max_age=1440,
                                                                meta-
                                                                data_max_age=1440,
                                                                nega-
                                                                tive_cache_enabled=True,
                                                                nega-
                                                                tive_cache_ttl=1440,
                                                                **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, meta-
                                                         data_max_age=1440, neg-
                                                         ative_cache_enabled=True,
                                                         negative_cache_ttl=1440,
                                                         **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',)

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.errors module

```
class nexuscli.cli.errors.CliReturnCode
    Bases: enum.Enum

    Error codes returned by nexuscli.cli

    API_ERROR = 2
    CONNECTION_ERROR = 3
    INVALID_SUBCOMMAND = 10
    NO_FILES = 1
    POLICY_NOT_FOUND = 20
    REPOSITORY_NOT_FOUND = 30
    SUCCESS = 0
    UNKNOWN_ERROR = 99
```

nexuscli.cli.root_commands module

Handles base/root commands (as opposed to subcommands)

```
nexuscli.cli.root_commands.cmd_del(*args, **kwargs)
    Alias for cmd_delete()

nexuscli.cli.root_commands.cmd_delete(nexus_client, options)
    Performs nexus3 delete

nexuscli.cli.root_commands.cmd_dl(*args, **kwargs)
    Alias for cmd_download()

nexuscli.cli.root_commands.cmd_download(nexus_client, args)
    Performs nexus3 download

nexuscli.cli.root_commands.cmd_list(nexus_client, args)
    Performs nexus3 list

nexuscli.cli.root_commands.cmd_login(_, __)
    Performs nexus3 login

nexuscli.cli.root_commands.cmd_ls(*args, **kwargs)
    Alias for cmd_list()

nexuscli.cli.root_commands.cmd_up(*args, **kwargs)
    Alias for cmd_upload()
```

```
nexuscli.cli.root_commands.cmd_upload(nexus_client, args)
    Performs nexus3 upload
```

nexuscli.cli.subcommand_cleanup_policy module

Usage: nexus3 cleanup_policy -help nexus3 cleanup_policy create <policy_name> [-format=<format>]
 [-downloaded=<days>] [-updated=<days>]
 nexus3 cleanup_policy list

Options: -h -help This screen -format=<format> Accepted: all or a repository format [default: all] -downloaded=<days> Cleanup criteria; last downloaded in this many days. -updated=<days> Cleanup criteria; last updated in this many days.

Commands: cleanup_policy create Create or update the cleanup policy <policy_name> cleanup_policy list List all existing cleanup policies.

```
nexuscli.cli.subcommand_cleanup_policy.cmd_create(nexus_client, args)
    Performs nexus3 cleanup_policy create
```

```
nexuscli.cli.subcommand_cleanup_policy.cmd_list(nexus_client, _)
    Performs nexus3 cleanup_policy list
```

```
nexuscli.cli.subcommand_cleanup_policy.main(argv=None)
    Entrypoint for nexus3 cleanup_policy subcommand.
```

nexuscli.cli.subcommand_repository module

Usage: nexus3 repository -help nexus3 repository list nexus3 repository show <repo_name> nexus3 repository (delete|del) <repo_name> [-force] nexus3 repository create hosted (bower|npm|nuget|pypi|raw|rubygems)

<repo_name> [-blob=<store_name>] [-strict-content] [-cleanup=<c_policy>] [-write=<w_policy>]

nexus3 repository create proxy (bower|npm|nuget|pypi|raw|rubygems|yum) <repo_name> <remote_url>
 [-blob=<store_name>] [-strict-content] [-cleanup=<c_policy>]

nexus3 repository create hosted maven <repo_name> [-blob=<store_name>] [-strict-content]
 [-cleanup=<c_policy>] [-write=<w_policy>] [-version=<v_policy>] [-layout=<l_policy>]

nexus3 repository create proxy maven <repo_name> <remote_url> [-blob=<store_name>] [-strict-content]
 [-cleanup=<c_policy>] [-version=<v_policy>] [-layout=<l_policy>]

nexus3 repository create hosted yum <repo_name> [-blob=<store_name>] [-strict-content]
 [-cleanup=<c_policy>] [-write=<w_policy>] [-depth=<repo_depth>]

Options: -h -help This screen -blob=<store_name> Use this blob with new repository [default: default] -depth=<repo_depth> Depth (0-5) where repodata folder(s) exist [default: 0] -layout=<l_policy> Accepted: strict, permissive [default: strict] -strict-content Enable strict content type validation -version=<v_policy> Accepted: release, snapshot, mixed [default: release] -write=<w_policy> Accepted: allow, allow_once, deny [default: allow_once] -cleanup=<c_policy> Accepted: an existing Cleanup Policy name -f -force Do not ask for confirmation before deleting

Commands: repository create Create a repository using the format and options provided repository delete Delete a repository. repository list List all repositories available on the server repository show Show the configuration for a repository as JSON.

```
nexuscli.cli.subcommand_repository.cmd_create(nexus_client, args)
    Performs nexus3 repository create commands
```

```
nexuscli.cli.subcommand_repository.cmd_del(*args, **kwargs)
    Alias for cmd_delete()

nexuscli.cli.subcommand_repository.cmd_delete(nexus_client, args)
    Performs nexus3 repository delete

nexuscli.cli.subcommand_repository.cmd_list(nexus_client, _)
    Performs nexus3 repository list

nexuscli.cli.subcommand_repository.cmd_show(nexus_client, args)
    Performs “nexus3 repository show

nexuscli.cli.subcommand_repository.main(argv=None)
    Entrypoint for nexus3 repository subcommand.
```

nexuscli.cli.subcommand_script module

Usage: nexus3 script -help nexus3 script create <script_name> <script_path> [-script_type=<type>] nexus3 script list nexus3 script run <script_name> [<script_args>] nexus3 script (delete|del) <script_name>

Options: -h -help This screen -script_type=<type> Script type [default: groovy]

Commands: script create Create or update a script using the <script_path> file script list List all scripts available on the server script del Remove existing <script_name> script run Run the existing <script_name> with optional <script_args>

```
nexuscli.cli.subcommand_script.cmd_create(nexus_client, args)
    Performs nexus3 script create

nexuscli.cli.subcommand_script.cmd_del(*args, **kwargs)
    Alias for cmd_delete()

nexuscli.cli.subcommand_script.cmd_delete(nexus_client, args)
    Performs nexus3 script delete

nexuscli.cli.subcommand_script.cmd_list(nexus_client, _)
    Performs nexus3 script list

nexuscli.cli.subcommand_script.cmd_run(nexus_client, args)
    Performs nexus3 script run

nexuscli.cli.subcommand_script.main(argv=None)
    Entrypoint for nexus3 script subcommand.
```

nexuscli.cli.util module

```
nexuscli.cli.util.find_cmd_method(arguments, methods)
    Helper to find the corresponding python method for a CLI command.

    Suitable python methods must be named cmd_COMMAND, where COMMAND is the CLI command and cmd_ is a hard-coded prefix.
```

Parameters

- **arguments** – the return of `docopt.docopt()`.
- **methods** – the return value from `globals()`, as-is

Returns the python method corresponding to the given CLI command. None if no suitable method is found.

Return type Union[callable, None]

`nexuscli.cli.util.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.input_with_default(prompt, default=None)`

Prompts for a text answer with an optional default choice.

Parameters

- **prompt** – question to be displayed to user
- **default** – default choice

Returns user-provided answer or None, if default not provided.

Return type Union[str, None]

Module contents

Nexus 3 CLI.

Usage: `nexus3 -help` # run this to see full list of commands/subcommands `nexus3 -version` `nexus3 login` `nexus3 (listlls) <repository_path> nexus3 (uploadlup) <from_src> <to_repository> [-flatten] [-norecurse] nexus3 (downloadldl) <from_repository> <to_dst> [-flatten] [-nocache] nexus3 (deleteldl) <repository_path> nexus3 <subcommand> [<arguments>...]`

Options:

-h --help This screen. For help with sub-commands, run `nexus3 <subcommand> -h`

- version** Show the Nexus3 CLI version and exit
- flatten** Flatten directory structure on `nexus3` transfers [default: False]
- nocache** Force download even if local copy is up-to-date [default: False]
- norecurse** Don't process subdirectories on `nexus3 up` transfers [default: False]

Commands: `login` Test login and save credentials to `~/.nexus-cli` `list` List all files within a path in the repository `upload` Upload file(s) to designated repository `download` Download an artefact or a directory to local file system `delete` Delete artefact(s) from repository

Sub-commands: `cleanup_policy` Cleanup Policy management. `repository` Repository management. `script` Script management.

`nexuscli.cli.main(argv=None)`

Entrypoint for the setuptools CLI console script

Submodules

nexuscli.exception module

exception `nexuscli.exception.DownloadError`

Bases: `Exception`

Error retrieving artefact from Nexus service.

exception `nexuscli.exception.NexusClientAPIError`

Bases: `Exception`

Unexpected response from Nexus service.

exception `nexuscli.exception.NexusClientConnectionError`

Bases: `Exception`

Generic network connector error.

exception `nexuscli.exception.NexusClientCreateCleanupPolicyError`

Bases: `Exception`

Used when a cleanup policy creation operation in Nexus fails.

exception `nexuscli.exception.NexusClientCreateRepositoryError`

Bases: `Exception`

Used when a repository creation operation in Nexus fails.

exception `nexuscli.exception.NexusClientInvalidCleanupPolicy`

Bases: `Exception`

The given cleanup policy does not exist in Nexus.

exception `nexuscli.exception.NexusClientInvalidCredentials`

Bases: `Exception`

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

exception `nexuscli.exception.NexusClientInvalidRepository`

Bases: `Exception`

The given repository does not exist in Nexus.

exception `nexuscli.exception.NexusClientInvalidRepositoryPath`

Bases: `Exception`

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.

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]`

repositories

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

Return type `RepositoryCollection`

rest_url

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

Return type `str`

scripts

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

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='admin123',
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`.

api_version

Current API version in use.

Return type *str*

auth

Current username and password as a tuple.

Return type *tuple[str, str]*

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`.

to_dict

Current instance configuration.

Return type *dict*

url

The Nexus service URL

Return type *str*

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': 'Y2xvdWRlcmEtbWFuYWdlcj(...)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.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](#)

CHAPTER 3

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`.

CHAPTER 4

Indices and tables

- `genindex`
- `modindex`
- `search`

n

- nexuscli, 26
- nexuscli.api, 16
 - cleanup_policy, 5
 - cleanup_policy.collection, 3
 - cleanup_policy.model, 4
 - cleanup_policy.validations, 5
 - repository, 14
 - collection, 5
 - model, 6
 - upload, 12
 - util, 13
 - validations, 13
 - script, 16
 - model, 14
- nexuscli.cli, 19
 - errors, 16
 - root_commands, 16
 - subcommand_cleanup_policy, 17
 - subcommand_repository, 17
 - subcommand_script, 18
 - util, 18
- nexuscli.exception, 19
- nexuscli.nexus_client, 20
- nexuscli.nexus_config, 23
- nexuscli.nexus_util, 24

A

`API_ERROR` (*nexuscli.cli.errors.CliReturnCode* attribute), 16

`api_version` (*nexuscli.nexus_config.NexusConfig* attribute), 24

`auth` (*nexuscli.nexus_config.NexusConfig* attribute), 24

B

`BowerHostedRepository` (class in *nexuscli.api.repository.model*), 6

`BowerProxyRepository` (class in *nexuscli.api.repository.model*), 6

C

`calculate_hash()` (in module *nexuscli.nexus_util*), 24

`cleanup_policies` (*nexuscli.nexus_client.NexusClient* attribute), 20

`cleanup_policy` (*nexuscli.api.repository.model.Repository* attribute), 11

`CleanupPolicy` (class in *nexuscli.api.cleanup_policy.model*), 4

`CleanupPolicyCollection` (class in *nexuscli.api.cleanup_policy.collection*), 3

`client` (*nexuscli.api.script.model.ScriptCollection* attribute), 14

`CliReturnCode` (class in *nexuscli.cli.errors*), 16

`cmd_create()` (in module *nexuscli.cli.subcommand_cleanup_policy*), 17

`cmd_create()` (in module *nexuscli.cli.subcommand_repository*), 17

`cmd_create()` (in module *nexuscli.cli.subcommand_script*), 18

`cmd_del()` (in module *nexuscli.cli.root_commands*), 16

`cmd_del()` (in module *nexuscli.cli.subcommand_repository*), 17

`cmd_del()` (in module *nexuscli.cli.subcommand_script*), 18

`cmd_delete()` (in module *nexuscli.cli.root_commands*), 16

`cmd_delete()` (in module *nexuscli.cli.subcommand_repository*), 18

`cmd_delete()` (in module *nexuscli.cli.subcommand_script*), 18

`cmd_dl()` (in module *nexuscli.cli.root_commands*), 16

`cmd_download()` (in module *nexuscli.cli.root_commands*), 16

`cmd_list()` (in module *nexuscli.cli.root_commands*), 16

`cmd_list()` (in module *nexuscli.cli.subcommand_cleanup_policy*), 17

`cmd_list()` (in module *nexuscli.cli.subcommand_repository*), 18

`cmd_list()` (in module *nexuscli.cli.subcommand_script*), 18

`cmd_login()` (in module *nexuscli.cli.root_commands*), 16

`cmd_ls()` (in module *nexuscli.cli.root_commands*), 16

`cmd_run()` (in module *nexuscli.cli.subcommand_script*), 18

`cmd_show()` (in module *nexuscli.cli.subcommand_repository*), 18

`cmd_up()` (in module *nexuscli.cli.root_commands*), 16

`cmd_upload()` (in module *nexuscli.cli.root_commands*), 16

`config_file` (*nexuscli.nexus_config.NexusConfig* attribute), 24

`configuration` (*nexuscli.api.cleanup_policy.model.CleanupPolicy* attribute), 4

`configuration` (*nexuscli.api.repository.model.HostedRepository* attribute), 7

`configuration` (*nexuscli.api.repository.model.MavenRepository* attribute), 8

`configuration` (*nexuscli.api.repository.model.ProxyRepository* attribute), 9

`configuration` (*nexuscli.api.repository.model.Repository* attribute), 11

configuration(*nexuscli.api.repository.model.YumRepository* *draw_by_name()*
attribute), 12 *(nexuscli.api.repository.collection.RepositoryCollection*
 CONNECTION_ERROR(*nexuscli.cli.errors.CliReturnCode* *method*), 6
attribute), 16 *get_repository_class()* (in *module*
 create() (*nexuscli.api.repository.collection.RepositoryCollection* *nexuscli.api.repository.collection*), 6
method), 5 *get_upload_subdirectory()* (in *module*
 create() (*nexuscli.api.script.model.ScriptCollection* *nexuscli.api.repository.util*), 13
method), 14 *groovy_script()* (in *module nexuscli.nexus_util*),
 create_if_missing() 25
(nexuscli.api.script.model.ScriptCollection *GROOVY_SCRIPT_NAME*
method), 14 *(nexuscli.api.cleanup_policy.collection.CleanupPolicyCollection*
 create_or_update() *attribute*), 3
(nexuscli.api.cleanup_policy.collection.CleanupPolicyCollection
method), 3

D

delete() (*nexuscli.api.repository.collection.RepositoryCollection* *delete()* (class in
method), 5 *nexuscli.api.repository.model*), 6
 delete() (*nexuscli.api.script.model.ScriptCollection* *http_delete()* (*nexuscli.nexus_client.NexusClient*
method), 15 *method*), 21
 delete() (*nexuscli.nexus_client.NexusClient* *method*), *http_get()* (*nexuscli.nexus_client.NexusClient*
 20 *method*), 21
 download() (*nexuscli.nexus_client.NexusClient* *http_head()* (*nexuscli.nexus_client.NexusClient*
method), 20 *method*), 21
 download_file() (*nexuscli.nexus_client.NexusClient* *http_post()* (*nexuscli.nexus_client.NexusClient*
method), 21 *method*), 21
 DownloadError, 19 *http_put()* (*nexuscli.nexus_client.NexusClient*
 dump() (*nexuscli.nexus_config.NexusConfig* *method*), *method*), 22
 24 *http_request()* (*nexuscli.nexus_client.NexusClient*
method), 22

E

ensure_exists() (in *module nexuscli.nexus_util*),
 25
 ensure_known() (in *module*
nexuscli.api.repository.validations), 13
 exists() (*nexuscli.api.script.model.ScriptCollection*
method), 15

F

filtered_list_gen() (in *module*
nexuscli.nexus_util), 25
 find_cmd_method() (in *module nexuscli.cli.util*), 18

G

get() (*nexuscli.api.script.model.ScriptCollection*
method), 15
 get_by_name() (*nexuscli.api.cleanup_policy.collection.CleanupPolicyCollection* *nexuscli.nexus_client.NexusClient*
method), 4 *method*), 22
 get_by_name() (*nexuscli.api.repository.collection.RepositoryCollection* *nexuscli.nexus_config.NexusConfig* *method*),
method), 5 24
 get_client() (in *module nexuscli.cli.util*), 19
 get_files() (in *module nexuscli.api.repository.util*),
 13

H

has_same_hash() (in *module nexuscli.nexus_util*),
 26

I

input_with_default() (in *module*
nexuscli.cli.util), 19
 INVALID_SUBCOMMAND
(nexuscli.cli.errors.CliReturnCode *attribute*),
 16

L

LAYOUT_POLICIES(*nexuscli.api.repository.model.MavenRepository*
attribute), 8
 list() (*nexuscli.api.cleanup_policy.collection.CleanupPolicyCollection*
method), 4
 list() (*nexuscli.api.script.model.ScriptCollection*
method), 15
 list() (*nexuscli.nexus_client.NexusClient* *method*), 22
 list() (*nexuscli.nexus_client.NexusClient* *method*), 22
 list() (*nexuscli.nexus_config.NexusConfig* *method*),
 24

M

main() (in *module nexuscli.cli*), 19

main() (in module *nexuscli.cli.subcommand_cleanup_policy*), 17
 main() (in module *nexuscli.cli.subcommand_repository*), 18
 main() (in module *nexuscli.cli.subcommand_script*), 18
 MavenHostedRepository (class in *nexuscli.api.repository.model*), 7
 MavenProxyRepository (class in *nexuscli.api.repository.model*), 7
 MavenRepository (class in *nexuscli.api.repository.model*), 8
 NexusClientInvalidRepository, 20
 NexusClientInvalidRepositoryPath, 20
 NexusConfig (class in *nexuscli.nexus_config*), 23
 NO_FILES (in module *nexuscli.cli.errors.CliReturnCode* attribute), 16
 NpmHostedRepository (class in *nexuscli.api.repository.model*), 8
 NpmProxyRepository (class in *nexuscli.api.repository.model*), 8
 NugetHostedRepository (class in *nexuscli.api.repository.model*), 8
 NugetProxyRepository (class in *nexuscli.api.repository.model*), 8

N

nexuscli (module), 26
nexuscli.api (module), 16
nexuscli.api.cleanup_policy (module), 5
nexuscli.api.cleanup_policy.collection (module), 3
nexuscli.api.cleanup_policy.model (module), 4
nexuscli.api.cleanup_policy.validations (module), 5
nexuscli.api.repository (module), 14
nexuscli.api.repository.collection (module), 5
nexuscli.api.repository.model (module), 6
nexuscli.api.repository.upload (module), 12
nexuscli.api.repository.util (module), 13
nexuscli.api.repository.validations (module), 13
nexuscli.api.script (module), 16
nexuscli.api.script.model (module), 14
nexuscli.cli (module), 19
nexuscli.cli.errors (module), 16
nexuscli.cli.root_commands (module), 16
nexuscli.cli.subcommand_cleanup_policy (module), 17
nexuscli.cli.subcommand_repository (module), 17
nexuscli.cli.subcommand_script (module), 18
nexuscli.cli.util (module), 18
nexuscli.exception (module), 19
nexuscli.nexus_client (module), 20
nexuscli.nexus_config (module), 23
nexuscli.nexus_util (module), 24
NexusClient (class in *nexuscli.nexus_client*), 20
NexusClientAPIError, 19
NexusClientConnectionError, 20
NexusClientCreateCleanupPolicyError, 20
NexusClientCreateRepositoryError, 20
NexusClientInvalidCleanupPolicy, 20
NexusClientInvalidCredentials, 20

P

policy_criteria() (in module *nexuscli.api.cleanup_policy.validations*), 5
 policy_name() (in module *nexuscli.api.cleanup_policy.validations*), 5
 POLICY_NOT_FOUND (in module *nexuscli.cli.errors.CliReturnCode* attribute), 16
 ProxyRepository (class in *nexuscli.api.repository.model*), 9
 PypiHostedRepository (class in *nexuscli.api.repository.model*), 9
 PypiProxyRepository (class in *nexuscli.api.repository.model*), 9

R

raw_list() (in module *nexuscli.api.repository.collection.RepositoryCollection* method), 6
 RawHostedRepository (class in *nexuscli.api.repository.model*), 10
 RawProxyRepository (class in *nexuscli.api.repository.model*), 10
 recipe_name (in module *nexuscli.api.repository.model.Repository* attribute), 11
 RECIPES (in module *nexuscli.api.repository.model.MavenRepository* attribute), 8
 RECIPES (in module *nexuscli.api.repository.model.Repository* attribute), 11
 RECIPES (in module *nexuscli.api.repository.model.YumRepository* attribute), 12
 refresh() (in module *nexuscli.api.repository.collection.RepositoryCollection* method), 6
 repositories (in module *nexuscli.nexus_client.NexusClient* attribute), 22
 Repository (class in *nexuscli.api.repository.model*), 10
 REPOSITORY_NOT_FOUND (in module *nexuscli.cli.errors.CliReturnCode* attribute), 16

RepositoryCollection (class in [nexuscli.api.repository.collection](#)), 5

rest_url (nexuscli.nexus_client.NexusClient attribute), 22

RubygemsHostedRepository (class in [nexuscli.api.repository.model](#)), 11

RubygemsProxyRepository (class in [nexuscli.api.repository.model](#)), 11

run() (nexuscli.api.script.model.ScriptCollection method), 15

VERSION_POLICIES (nexuscli.api.repository.model.MavenRepository attribute), 8

W

WRITE_POLICIES (nexuscli.api.repository.model.HostedRepository attribute), 7

X

x509_verify (nexuscli.nexus_config.NexusConfig attribute), 24

S

Script (class in [nexuscli.api.script.model](#)), 14

ScriptCollection (class in [nexuscli.api.script.model](#)), 14

scripts (nexuscli.nexus_client.NexusClient attribute), 22

server_version (nexuscli.nexus_client.NexusClient attribute), 22

split_component_path() (nexuscli.nexus_client.NexusClient method), 23

SUCCESS (nexuscli.cli.errors.CliReturnCode attribute), 16

Y

YumHostedRepository (class in [nexuscli.api.repository.model](#)), 12

YumProxyRepository (class in [nexuscli.api.repository.model](#)), 12

YumRepository (class in [nexuscli.api.repository.model](#)), 12

T

to_dict (nexuscli.nexus_config.NexusConfig attribute), 24

TYPE (nexuscli.api.repository.model.HostedRepository attribute), 7

TYPE (nexuscli.api.repository.model.ProxyRepository attribute), 9

TYPE (nexuscli.api.repository.model.Repository attribute), 11

U

UNKNOWN_ERROR (nexuscli.cli.errors.CliReturnCode attribute), 16

upload() (nexuscli.nexus_client.NexusClient method), 23

upload_directory() (nexuscli.api.repository.model.HostedRepository method), 7

upload_file() (nexuscli.api.repository.model.HostedRepository method), 7

upload_file_raw() (in module [nexuscli.api.repository.upload](#)), 12

upload_file_yum() (in module [nexuscli.api.repository.upload](#)), 13

url (nexuscli.nexus_config.NexusConfig attribute), 24

V

validate_strings() (in module [nexuscli.nexus_util](#)), 26