
pystardog Documentation

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PYSTARDOG

Python wrapper for communicating with the Stardog HTTP server.

1.1 What is it?

This framework wraps all the functionality of a client for the Stardog Knowledge Graph, and provides access to a full set of functions such as executing SPARQL queries, administrative tasks on Stardog, and the use of the Reasoning API.

The implementation uses the HTTP protocol, since most of Stardog functionality is available using this protocol. For more information, go to the Stardog's [HTTP Programming](#) documentation.

1.2 Installation

pystardog is on PyPI so all you need is: `pip install pystardog`

1.3 Documentation

Documentation is readable at [Read the Docs](#) or can be built using Sphinx:

```
cd docs
pip install -r requirements.txt
make html
```

1.4 Tests

To run the tests locally, a valid Stardog license is required and placed in the `dockerfiles/stardog-license-key.bin`. Docker and docker-compose are also required.

```
docker-compose -f docker-compose.single-node.yml up --exit-code-from tests-single-node
docker-compose -f docker-compose.cluster.yml up --exit-code-from tests
```

1.5 Format

To run a format of all the files

```
virtualenv -p $(which python3) venv
. venv/bin/activate
pip install -r test-requirements.txt
black .
```

1.6 Quick Example

```
import stardog

conn_details = {
    'endpoint': 'http://localhost:5820',
    'username': 'admin',
    'password': 'admin'
}

with stardog.Admin(**conn_details) as admin:
    db = admin.new_database('db')

    with stardog.Connection('db', **conn_details) as conn:
        conn.begin()
        conn.add(stardog.content.File('./test/data/example.ttl'))
        conn.commit()
        results = conn.select('select * { ?a ?p ?o }')

    db.drop()
```

1.7 Interactive Tutorial

There is a Jupyter notebook and instructions in the notebooks directory of this repository.

2.1 stardog.connection

Connect to Stardog databases.

```
class stardog.connection.Connection(database, endpoint=None, username=None, password=None,
                                     auth=None, session=None)
```

Bases: object

Database Connection.

This is the entry point for all user-related operations on a Stardog database

```
__init__(database, endpoint=None, username=None, password=None, auth=None, session=None)
Initializes a connection to a Stardog database.
```

Parameters

- **database** (*str*) – Name of the database
- **endpoint** (*str*) – Url of the server endpoint. Defaults to *http://localhost:5820*
- **username** (*str*, *optional*) – Username to use in the connection
- **password** (*str*, *optional*) – Password to use in the connection
- **auth** (*requests.auth.AuthBase*, *optional*) – requests Authentication object. Defaults to *None*
- **session** (*requests.session.Session*, *optional*) – requests Session object. Defaults to *None*

Examples

```
>>> conn = Connection('db', endpoint='http://localhost:9999',
                       username='admin', password='admin')
```

```
add(content, graph_uri=None)
Adds data to the database.
```

Parameters

- **content** (*Content*) – Data to add
- **graph_uri** (*str*, *optional*) – Named graph into which to add the data

Raises *stardog.exceptions.TransactionException* – If not currently in a transaction

Examples

```
>>> conn.add(File('example.ttl'), graph_uri='urn:graph')
```

ask(*query*, ****kwargs**)

Executes a SPARQL ask query.

Parameters

- **query** (*str*) – SPARQL query
- **base_uri** (*str*, *optional*) – Base URI for the parsing of the query
- **limit** (*int*, *optional*) – Maximum number of results to return
- **offset** (*int*, *optional*) – Offset into the result set
- **timeout** (*int*, *optional*) – Number of ms after which the query should timeout. 0 or less implies no timeout
- **reasoning** (*bool*, *optional*) – Enable reasoning for the query
- **bindings** (*dict*, *optional*) – Map between query variables and their values

Returns Result of ask query

Return type bool

Examples

```
>>> conn.ask('ask { :subj :pred :obj }', reasoning=True)
```

begin(****kwargs**)

Begins a transaction.

Parameters **reasoning** (*bool*, *optional*) – Enable reasoning for all queries inside the transaction. If the transaction does not have reasoning enabled, queries within will not be able to use reasoning.

Returns Transaction ID

Return type str

Raises *stardog.exceptions.TransactionException* – If already in a transaction

clear(*graph_uri=None*)

Removes all data from the database or specific named graph.

Parameters **graph_uri** (*str*, *optional*) – Named graph from which to remove data

Raises *stardog.exceptions.TransactionException* – If currently not in a transaction

Examples

clear a specific named graph

```
>>> conn.clear('urn:graph')
```

clear the whole database

```
>>> conn.clear()
```

close()

Close the underlying HTTP connection.

commit()

Commits the current transaction.

Raises *stardog.exceptions.TransactionException* – If currently not in a transaction

docs()

Makes a document storage object.

Returns A Docs object

Return type *Docs*

explain(query, base_uri=None)

Explains the evaluation of a SPARQL query.

Parameters

- **query** (*str*) – SPARQL query
- **base_uri** (*str, optional*) – Base URI for the parsing of the query

Returns Query explanation

Return type *str*

explain_inconsistency(graph_uri=None)

Explains why the database or a named graph is inconsistent.

Parameters **graph_uri** (*str, optional*) – Named graph for which to explain inconsistency

Returns Explanation results

Return type *dict*

explain_inference(content)

Explains the given inference results.

Parameters **content** (*Content*) – Data from which to provide explanations

Returns Explanation results

Return type *dict*

Examples

```
>>> conn.explain_inference(File('inferences.ttl'))
```

export(*content_type='text/turtle', stream=False, chunk_size=10240, graph_uri=None*)
Exports the contents of the database.

Parameters

- **content_type** (*str*) – RDF content type. Defaults to ‘text/turtle’
- **stream** (*bool*) – Chunk results? Defaults to False
- **chunk_size** (*int*) – Number of bytes to read per chunk when streaming. Defaults to 10240
- **graph_uri** (*str, optional*) – Named graph to export

Returns If stream = False

Return type str

Returns If stream = True

Return type gen

Examples

no streaming

```
>>> contents = conn.export()
```

streaming

```
>>> with conn.export(stream=True) as stream:  
    contents = ''.join(stream)
```

graph(*query, content_type='text/turtle', **kwargs*)
Executes a SPARQL graph query.

Parameters

- **query** (*str*) – SPARQL query
- **base_uri** (*str, optional*) – Base URI for the parsing of the query
- **limit** (*int, optional*) – Maximum number of results to return
- **offset** (*int, optional*) – Offset into the result set
- **timeout** (*int, optional*) – Number of ms after which the query should timeout. 0 or less implies no timeout
- **reasoning** (*bool, optional*) – Enable reasoning for the query
- **bindings** (*dict, optional*) – Map between query variables and their values
- **content_type** (*str*) – Content type for results. Defaults to ‘text/turtle’

Returns Results in format given by content_type

Return type str

Examples

```
>>> conn.graph('construct {?s ?p ?o} where {?s ?p ?o}',
               offset=100, limit=100, reasoning=True)
```

bindings

```
>>> conn.graph('construct {?s ?p ?o} where {?s ?p ?o}',
               bindings={'o': '<urn:a>'})
```

graphql()

Makes a GraphQL object.

Returns A GraphQL object

Return type *GraphQL*

icv()

Makes an integrity constraint validation object.

Returns An ICV object

Return type *ICV*

is_consistent(graph_uri=None)

Checks if the database or named graph is consistent wrt its schema.

Parameters **graph_uri** (*str, optional*) – Named graph from which to check consistency

Returns Database consistency state

Return type bool

paths(query, content_type='application/sparql-results+json', **kwargs)

Executes a SPARQL paths query.

Parameters

- **query** (*str*) – SPARQL query
- **base_uri** (*str, optional*) – Base URI for the parsing of the query
- **limit** (*int, optional*) – Maximum number of results to return
- **offset** (*int, optional*) – Offset into the result set
- **timeout** (*int, optional*) – Number of ms after which the query should timeout. 0 or less implies no timeout
- **reasoning** (*bool, optional*) – Enable reasoning for the query
- **bindings** (*dict, optional*) – Map between query variables and their values
- **content_type** (*str*) – Content type for results. Defaults to 'application/sparql-results+json'

Returns if content_type='application/sparql-results+json'.

Return type dict

Returns other content types.

Return type str

Examples

```
>>> conn.paths('paths start ?x = :subj end ?y = :obj via ?p',
               reasoning=True)
```

remove(*content*, *graph_uri=None*)
Removes data from the database.

Parameters

- **content** (*Content*) – Data to add
- **graph_uri** (*str*, *optional*) – Named graph from which to remove the data

Raises *stardog.exceptions.TransactionException* – If currently not in a transaction

Examples

```
>>> conn.remove(File('example.ttl'), graph_uri='urn:graph')
```

rollback()
Rolls back the current transaction.

Raises *stardog.exceptions.TransactionException* – If currently not in a transaction

select(*query*, *content_type='application/sparql-results+json'*, ***kwargs*)
Executes a SPARQL select query.

Parameters

- **query** (*str*) – SPARQL query
- **base_uri** (*str*, *optional*) – Base URI for the parsing of the query
- **limit** (*int*, *optional*) – Maximum number of results to return
- **offset** (*int*, *optional*) – Offset into the result set
- **timeout** (*int*, *optional*) – Number of ms after which the query should timeout. 0 or less implies no timeout
- **reasoning** (*bool*, *optional*) – Enable reasoning for the query
- **bindings** (*dict*, *optional*) – Map between query variables and their values
- **content_type** (*str*, *optional*) – Content type for results. Defaults to 'application/sparql-results+json'

Returns If *content_type='application/sparql-results+json'*

Return type dict

Returns Other content types

Return type str

Examples

```
>>> conn.select('select * {?s ?p ?o}',
                offset=100, limit=100, reasoning=True)
```

bindings

```
>>> conn.select('select * {?s ?p ?o}', bindings={'o': '<urn:a>'})
```

size(*exact=False*)

Database size.

Parameters **exact** (*bool, optional*) – Calculate the size exactly. Defaults to False

Returns The number of elements in database

Return type int

update(*query, **kwargs*)

Executes a SPARQL update query.

Parameters

- **query** (*str*) – SPARQL query
- **base_uri** (*str, optional*) – Base URI for the parsing of the query
- **limit** (*int, optional*) – Maximum number of results to return
- **offset** (*int, optional*) – Offset into the result set
- **timeout** (*int, optional*) – Number of ms after which the query should timeout. 0 or less implies no timeout
- **reasoning** (*bool, optional*) – Enable reasoning for the query
- **bindings** (*dict, optional*) – Map between query variables and their values

Examples

```
>>> conn.update('delete where {?s ?p ?o}')
```

class stardog.connection.Docs(*client*)

Bases: object

BITES: Document Storage.

See also:

https://www.stardog.com/docs/#_unstructured_data

__init__(*client*)

Initializes a Docs.

Use `stardog.connection.Connection.docs()` instead of constructing manually.

add(*name, content*)

Adds a document to the store.

Parameters

- **name** (*str*) – Name of the document

- **content** (*Content*) – Contents of the document

Examples

```
>>> docs.add('example', File('example.pdf'))
```

clear()

Removes all documents from the store.

delete(name)

Deletes a document from the store.

Parameters **name** (*str*) – Name of the document

get(name, stream=False, chunk_size=10240)

Gets a document from the store.

Parameters

- **name** (*str*) – Name of the document
- **stream** (*bool*) – If document should come in chunks or as a whole. Defaults to False
- **chunk_size** (*int*) – Number of bytes to read per chunk when streaming. Defaults to 10240

Returns If stream=False

Return type *str*

Returns If stream=True

Return type *gen*

Examples

no streaming

```
>>> contents = docs.get('example')
```

streaming

```
>>> with docs.get('example', stream=True) as stream:  
    contents = ''.join(stream)
```

size()

Calculates document store size.

Returns Number of documents in the store

Return type *int*

class stardog.connection.**GraphQL**(*conn*)

Bases: *object*

See also:

https://www.stardog.com/docs/#_graphql_queries

__init__(*conn*)

Initializes a GraphQL.

Use `stardog.connection.Connection.graphql()` instead of constructing manually.

add_schema(*name*, *content*)

Adds a schema to the database.

Parameters

- **name** (*str*) – Name of the schema
- **content** (*Content*) – Schema data

Examples

```
>>> gql.add_schema('people', content=File('people.graphql'))
```

clear_schemas()

Deletes all schemas.

query(*query*, *variables=None*)

Executes a GraphQL query.

Parameters

- **query** (*str*) – GraphQL query
- **variables** (*dict*, *optional*) – GraphQL variables. Keys: '@reasoning' (bool) to enable reasoning, '@schema' (str) to define schemas

Returns Query results

Return type dict

Examples

with schema and reasoning

```
>>> gql.query('{ Person {name} }',
              variables={'@reasoning': True, '@schema': 'people'})
```

with named variables

```
>>> gql.query(
    'query getPerson($id: Integer) { Person(id: $id) {name} }',
    variables={'id': 1000})
```

remove_schema(*name*)

Removes a schema from the database.

Parameters **name** (*str*) – Name of the schema

schema(*name*)

Gets schema information.

Parameters **name** (*str*) – Name of the schema

Returns GraphQL schema

Return type dict

schemas()

Retrieves all available schemas.

Returns All schemas

Return type dict

class stardog.connection.ICV(*conn*)

Bases: object

Integrity Constraint Validation.

See also:

https://www.stardog.com/docs/#_validating_constraints

__init__(*conn*)

Initializes an ICV.

Use *stardog.connection.Connection.icv()* instead of constructing manually.

add(*content*)

Adds integrity constraints to the database.

Parameters **content** (*Content*) – Data to add

Examples

```
>>> icv.add(File('constraints.ttl'))
```

clear()

Removes all integrity constraints from the database.

convert(*content*, *graph_uri=None*)

Converts given integrity constraints to a SPARQL query.

Parameters

- **content** (*Content*) – Integrity constraints
- **graph_uri** (*str*, *optional*) – Named graph from which to apply constraints

Returns SPARQL query

Return type str

Examples

```
>>> icv.convert(File('constraints.ttl'), graph_uri='urn:graph')
```

explain_violations(*content*, *graph_uri=None*)

Explains violations of the given integrity constraints.

Parameters

- **content** (*Content*) – Data to check for violations
- **graph_uri** (*str*, *optional*) – Named graph from which to check for validations

Returns Integrity constraint violations

Return type dict

Examples

```
>>> icv.explain_violations(File('constraints.ttl'),
                             graph_uri='urn:graph')
```

is_valid(*content*, *graph_uri=None*)

Checks if given integrity constraints are valid.

Parameters

- **content** (*Content*) – Data to check for validity
- **graph_uri** (*str*, *optional*) – Named graph to check for validity

Returns Integrity constraint validity

Return type bool

Examples

```
>>> icv.is_valid(File('constraints.ttl'), graph_uri='urn:graph')
```

list()

List all integrity constraints from the database.

remove(*content*)

Removes integrity constraints from the database.

Parameters **content** (*Content*) – Data to remove

Examples

```
>>> icv.remove(File('constraints.ttl'))
```

2.2 stardog.admin

Administer a Stardog server.

class stardog.admin.**Admin**(*endpoint=None*, *username=None*, *password=None*, *auth=None*)

Bases: object

Admin Connection.

This is the entry point for admin-related operations on a Stardog server.

See also:

https://www.stardog.com/docs/#_administering_stardog

__init__(*endpoint=None*, *username=None*, *password=None*, *auth=None*)

Initializes an admin connection to a Stardog server.

Parameters

- **endpoint** (*str*, *optional*) – Url of the server endpoint. Defaults to `http://localhost:5820`

- **username** (*str, optional*) – Username to use in the connection. Defaults to *admin*
- **password** (*str, optional*) – Password to use in the connection. Defaults to *admin*

auth (`requests.auth.AuthBase`, *optional*): **requests Authentication object**. Defaults to *None*

auth and username/password should not be used together. If they are the value of *auth* will take precedent.
.. rubric:: Examples

```
>>> admin = Admin(endpoint='http://localhost:9999',  
                  username='admin', password='admin')
```

alive()

Determine whether the server is running :return: Returns True if server is alive :rtype: bool

backup_all (*location=None*)

Create a backup of all databases on the server

cache (*name*)

Retrieve an object representing a cached dataset.

Returns The requested cache

Return type *Cache*

cache_status (**names*)

Retrieves the status of one or more cached graphs or queries.

Parameters **names* – (str): Names of the cached graphs or queries

Returns List of statuses

Return type list[str]

cache_targets()

Retrieves all cache targets.

Returns A list of CacheTarget objects

Return type list[*CacheTarget*]

cached_graphs()

Retrieves all cached graphs.

Returns A list of Cache objects

Return type list[*Cache*]

cached_queries()

Retrieves all cached queries.

Returns A list of Cache objects

Return type list[*Cache*]

clear_stored_queries()

Remove all stored queries on the server.

cluster_coordinator_check()

Determine if a specific cluster node is the cluster coordinator :return: True if the node is a coordinator, false if not. :rtype: Bool

cluster_info()

Prints info about the nodes in the Stardog Pack cluster.

Returns Nodes of the cluster

Return type dict

cluster_join()

Instruct a standby node to join its cluster as a full node

cluster_list_standby_nodes()

List standby nodes :return: Returns the registry ID for the standby nodes. :rtype: dict

cluster_revoke_standby_access(*registry_id*)

Instruct a standby node to stop syncing :param *registry_id: (string): Id of the standby node to stop syncing.

cluster_shutdown()

Shutdown all nodes :return: True if the cluster got shutdown successfully. :rtype: bool

cluster_start_readonly()

Start read only mode

cluster_status()

Prints status information for each node in the cluster

Returns Nodes of the cluster and extra information

Return type dict

cluster_stop_readonly()

Stops read only mode

database(*name*)

Retrieves an object representing a database.

Parameters **name** (*str*) – The database name

Returns The requested database

Return type *Database*

databases()

Retrieves all databases.

Returns A list of database objects

Return type list[*Database*]

datasource(*name*)

Retrieves an object representing a DataSource.

Parameters **name** (*str*) – The name of the data source

Returns The DataSource object

Return type *DataSource*

datasources()

Retrieves all data sources.

Returns A list of DataSources

Return type list[DataSources]

datasources_info()

List data sources info

Returns A list of data sources info

Return type list

get_all_metadata_properties()

Get information on all database metadata properties, including description and example values :return: Metadata properties :rtype: dict

get_prometheus_metrics()

get_server_metrics()

Return metric information from the registry in JSON format <https://stardog-union.github.io/http-docs/#operation/status> :return: Server metrics :rtype: dict

get_server_properties()

Get the value of any set server-level properties

Returns dict: Server properties

healthcheck()

Determine whether the server is running and able to accept traffic :return: Returns true if server is able to accept traffic :rtype: bool

import_virtual_graph(db, mappings, named_graph, remove_all, options)

Import (materialize) a virtual graph directly into the local knowledge graph.

Parameters

- **db** (*str*) – The database into which to import the graph
- **mappings** (*Content*) – New mapping contents. An empty string can be passed for auto-generated mappings.
- **named_graph** (*str*) – Name of the graph into which import the VG.
- **remove_all** (*bool*) – Should the target named graph be cleared before importing?
- **options** (*dict*) – Options for the new virtual graph, <https://docs.stardog.com/virtual-graphs/virtual-graph-configuration#virtual-graph-properties>

Examples

```
>>> admin.import_virtual_graph(  
    'db-name', mappings=File('mappings.ttl'),  
    named_graph='my-graph', remove_all=True, options={'jdbc.driver': 'com.  
↳mysql.jdbc.Driver'}  
    )
```

kill_query(id)

Kills a running query.

Parameters **id** (*str*) – ID of the query to kill

new_cache_target(name, hostname, port, username, password, use_existing_db=False)

Creates a new cache target.

Parameters

- **name** (*str*) – The name of the cache target
- **hostname** (*str*) – The hostname of the cache target server
- **port** (*int*) – The port of the cache target server
- **username** (*int*) – The username for the cache target
- **password** (*int*) – The password for the cache target

- **use_existing_db** (*bool*) – If true, check for an existing cache database to use before creating a new one

Returns The new CacheTarget

Return type *CacheTarget*

new_cached_graph(*name, target, graph, database=None, refresh_script=None, register_only=False*)
Creates a new cached graph.

Parameters

- **name** (*str*) – The name (URI) of the cached query
- **target** (*str*) – The name (URI) of the cache target
- **graph** (*str*) – The name of the graph to cache
- **database** (*str*) – The name of the database. Optional for virtual graphs, mandatory for named graphs.
- **refresh_script** (*str*) – An optional SPARQL Insert query to run when refreshing the cache.
- **register_only** (*bool*) – An optional value that if true, register a cached dataset without loading data from the source graph or query into the cache target's databases.

Returns The new Cache

Return type *Cache*

new_cached_query(*name, target, query, database, refresh_script=None, register_only=False*)
Creates a new cached query.

Parameters

- **name** (*str*) – The name (URI) of the cached query
- **target** (*str*) – The name (URI) of the cache target
- **query** (*str*) – The query to cache
- **database** (*str*) – The name of the database
- **refresh_script** (*str, optional*) – A SPARQL insert query to run when refreshing the cache
- **register_only** (*bool*) – Default: false. If true, register a cached dataset without loading data from the source graph or query into the cache target's databases

Returns The new Cache

Return type *Cache*

new_database(*name, options=None, *contents, **kwargs*)
Creates a new database.

Parameters

- **name** (*str*) – the database name
- **options** (*dict*) – Dictionary with database options (optional)
- ***contents** (*Content or (Content, str), optional*) – Datasets to perform bulk-load with. Named graphs are made with tuples of Content and the name.
- ****kwargs** – Allows to set copy_to_server. If true, sends the files to the Stardog server, and replicates them to the rest of nodes.

Returns The database object

Return type *Database*

Examples

Options

```
>>> admin.new_database('db', {'search.enabled': True})
```

bulk-load

```
>>> admin.new_database('db', {},  
                        File('example.ttl'), File('test.rdf'))
```

bulk-load to named graph

```
>>> admin.new_database('db', {}, (File('test.rdf'), 'urn:context'))
```

new_datasource(*name, options*)

Creates a new DataSource.

Parameters

- **name** (*str*) – The name of the data source
- **options** (*dict*) – Data source options

Returns The new DataSource object

Return type *User*

new_role(*name*)

Creates a new role.

Parameters **name** (*str*) – The name of the new Role

Returns The new Role object

Return type *Role*

new_stored_query(*name, query, options=None*)

Creates a new Stored Query.

Parameters

- **name** (*str*) – The name of the stored query
- **query** (*str*) – The query text
- **options** (*dict, optional*) – Additional options

Returns the new StoredQuery

Return type *StoredQuery*

Examples

```
>>> admin.new_stored_query('all triples',
    'select * where { ?s ?p ?o . }',
    { 'database': 'mydb' }
)
```

new_user(*username, password, superuser=False*)
Creates a new user.

Parameters

- **username** (*str*) – The username
- **password** (*str*) – The password
- **superuser** (*bool*) – Should the user be super? Defaults to false.

Returns The new User object

Return type *User*

new_virtual_graph(*name, mappings, options=None, datasource=None, db=None*)
Creates a new Virtual Graph.

Parameters

- **name** (*str*) – The name of the virtual graph.
- **mappings** (*Content*) – New mapping contents.
- **options** (*dict, Optional*) – Options for the new virtual graph. If not passed, then a datasource must be specified.
- **datasource** (*str, Optional*) – Name of the datasource to use. If not passed, options with a datasource must be set.
- **db** (*str, Optional*) – Name of the database to associate the VG. If not passed, will be associated to all databases.

Returns the new VirtualGraph

Return type *VirtualGraph*

Examples

```
>>> admin.new_virtual_graph(
    'users', File('mappings.ttl'),
    {'jdbc.driver': 'com.mysql.jdbc.Driver'}
)
```

queries()
Gets information about all running queries.

Returns Query information

Return type dict

query(*id*)
Gets information about a running query.

Parameters **id** (*str*) – Query ID

Returns Query information

Return type dict

restore(*from_path*, *, *name=None*, *force=False*)

Restore a database.

Parameters

- **from_path** (*str*) – the full path on the server to the backup
- **name** (*str*, *optional*) – the name of the database to restore to if different from the backup
- **force** (*boolean*, *optional*) – a backup will not be restored over an existing database of the same name; the force flag should be used to overwrite the database

Examples

```
>>> admin.restore("/data/stardog/.backup/db/2019-12-01")
>>> admin.restore("/data/stardog/.backup/db/2019-11-05",
                  name="db2", force=True)
```

See also:

https://www.stardog.com/docs/#_restore_a_database_from_a_backup

role(*name*)

Retrieves an object representing a role.

Parameters **name** (*str*) – The name of the Role

Returns The Role object

Return type *Role*

roles()

Retrieves all roles.

Returns A list of Role objects

Return type list[*Role*]

shutdown()

Shuts down the server.

standby_node_pause(*pause*)

Pause/Unpause standby node :param *pause: (boolean): True for pause, False for unpause

Returns Returns True if the pause status was modified successfully, false if it failed.

Return type bool

standby_node_pause_status()

Get the pause status of a standby node <https://stardog-union.github.io/http-docs/#operation/getPauseState>
:return: Pause status of a standby node, possible values are: "WAITING", "SYNCING", "PAUSING", "PAUSED" :rtype: Dict

stored_queries()

Retrieves all stored queries.

Returns A list of StoredQuery objects

Return type list[*StoredQuery*]

stored_query(*name*)

Retrieves a Stored Query.

Parameters **name** (*str*) – The name of the Stored Query to retrieve

Returns The StoredQuery object

Return type *StoredQuery*

user(*name*)

Retrieves an object representing a user.

Parameters **name** (*str*) – The name of the user

Returns The User object

Return type *User*

users()

Retrieves all users.

Returns A list of User objects

Return type list[*User*]

validate()

Validates an admin connection.

Returns The connection state

Return type bool

virtual_graph(*name*)

Retrieves a Virtual Graph.

Parameters **name** (*str*) – The name of the Virtual Graph to retrieve

Returns The VirtualGraph object

Return type *VirtualGraph*

virtual_graphs()

Retrieves all virtual graphs.

Returns A list of VirtualGraph objects

Return type list[*VirtualGraph*]

class stardog.admin.Cache(*name*, *client*)

Bases: object

Cached data

A cached dataset from a query or named/virtual graph.

See also:

https://www.stardog.com/docs/#_cache_management

__init__(*name*, *client*)

Initializes a new cached dataset from a query or named/virtual graph.

Use `stardog.admin.Admin.new_cached_graph()` or `stardog.admin.Admin.new_cached_query()` instead of constructing manually.

drop()

Drops the cache.

refresh()

Refreshes the cache.

status()

Retrieves the status of the cache.

class `stardog.admin.CacheTarget`(*name, client*)

Bases: object

Cache Target Server

__init__(*name, client*)

Initializes a cache target.

Use `stardog.admin.Admin.new_cache_target()` instead of constructing manually.

info()

Get info for the cache target

Returns Info

Return type dict

property name

The name (URI) of the cache target.

orphan()

Orphans the cache target but do not destroy its contents.

remove()

Removes the cache target and destroy its contents.

class `stardog.admin.DataSource`(*name, client*)

Bases: object

Initializes a DataSource

See also:

<https://docs.stardog.com/virtual-graphs/virtual-sources>

__init__(*name, client*)

Initializes a DataSource.

Use `stardog.admin.Admin.data_source()`, `stardog.admin.Admin.data_sources()`, or `stardog.admin.Admin.new_data_source()` instead of constructing manually.

available()

Checks if the data source is available.

Returns Availability state

Return type bool

delete()

Deletes a data source

get_options()

Get data source options

info()

Get data source info

Returns Info

Return type dict

property name

The name of the data source.

online()

Online a data source

refresh_count(*meta=None*)

Refresh table row-count estimates

refresh_metadata(*meta=None*)

Refresh metadata

share()

Share data source

update(*options=None*)

Update data source

class stardog.admin.Database(*name, client*)

Bases: object

Database Admin

See also:

https://www.stardog.com/docs/#_database_admin

__init__(*name, client*)

Initializes a Database.

Use `stardog.admin.Admin.database()`, `stardog.admin.Admin.databases()`, or `stardog.admin.Admin.new_database()` instead of constructing manually.

add_namespace(*prefix, iri*)

Adds a specific namespace to a database :return: True if the operation succeeded. :rtype: Bool

backup(**, to=None*)

Create a backup of a database on the server.

Parameters to (*string, optional*) – specify a path on the server to store the backup

See also:

https://www.stardog.com/docs/#_backup_a_database

copy(*to*)

Makes a copy of this database under another name.

The database must be offline.

Parameters to (*str*) – Name of the new database to be created

Returns The new Database

Return type *Database*

drop()

Drops the database.

get_all_options()

Get the value of every metadata option for a database

Returns Dict detailing all database metadata

Return type Dict

get_options(*options)

Get the value of specific metadata options for a database

Parameters *options (str) – Database option names

Returns Database options

Return type dict

Examples

```
>>> db.get_options('search.enabled', 'spatial.enabled')
```

import_namespaces(content)

Parameters content (Content) – RDF File containing prefix declarations Imports namespace prefixes from an RDF file that contains prefix declarations into the database, overriding any previous mappings for those prefixes. Only the prefix declarations in the file are processed, the rest of the file is not parsed.

Returns Dictionary with all namespaces after import

Return type Dict

property name

The name of the database.

namespaces()

Retrieve the namespaces stored in the database <https://stardog-union.github.io/http-docs/#operation/getNamespaces> :return: A dict listing the prefixes and IRIs of the stored namespaces :rtype: Dict

offline()

Sets a database to offline state.

online()

Sets a database to online state.

optimize()

Optimizes a database.

remove_namespace(prefix)

Removes a specific namespace from a database :return: True if the operation succeeded. :rtype: Bool

repair()

Attempt to recover a corrupted database.

The database must be offline.

set_options(options)

Sets database options.

The database must be offline.

Parameters options (dict) – Database options

Examples

```
>>> db.set_options({'spatial.enabled': False})
```

verify()

verifies a database.

class `stardog.admin.Role(name, client)`

Bases: `object`

See also:

https://www.stardog.com/docs/#_security

__init__(*name, client*)

Initializes a Role.

Use `stardog.admin.Admin.role()`, `stardog.admin.Admin.roles()`, or `stardog.admin.Admin.new_role()` instead of constructing manually.

add_permission(*action, resource_type, resource*)

Adds a permission to the role.

See also:

https://www.stardog.com/docs/#_permissions

Parameters

- **action** (*str*) – Action type (e.g., ‘read’, ‘write’)
- **resource_type** (*str*) – Resource type (e.g., ‘user’, ‘db’)
- **resource** (*str*) – Target resource (e.g., ‘username’, ‘*’)

Examples

```
>>> role.add_permission('read', 'user', 'username')
>>> role.add_permission('write', '*', '*')
```

delete(*force=None*)

Deletes the role.

Parameters **force** (*bool*) – Force deletion of the role

property name

The name of the Role.

permissions()

Gets the role permissions.

See also:

https://www.stardog.com/docs/#_permissions

Returns Role permissions

Return type dict

remove_permission(*action, resource_type, resource*)

Removes a permission from the role.

See also:

https://www.stardog.com/docs/#_permissions

Parameters

- **action** (*str*) – Action type (e.g., ‘read’, ‘write’)

- **resource_type** (*str*) – Resource type (e.g., ‘user’, ‘db’)
- **resource** (*str*) – Target resource (e.g., ‘username’, ‘*’)

Examples

```
>>> role.remove_permission('read', 'user', 'username')
>>> role.remove_permission('write', '*', '*')
```

users()

Lists the users for this role.

Returns list[User]

class stardog.admin.StoredQuery(*name, client*)

Bases: object

Stored Query

See also:

https://www.stardog.com/docs/#_list_stored_queries https://www.stardog.com/docs/#_managing_stored_queries

__init__(*name, client*)

Initializes a stored query.

Use `stardog.admin.Admin.stored_query()`, `stardog.admin.Admin.stored_queries()`, or `stardog.admin.Admin.new_stored_query()` instead of constructing manually.

property creator

The creator of the stored query.

property database

The database the stored query applies to.

delete()

Deletes the Stored Query.

property description

The description of the stored query.

property name

The name of the stored query.

property query

The text of the stored query.

property reasoning

The value of the reasoning property.

property shared

The value of the shared property.

update(***options*)

Updates the Stored Query.

Parameters ****options** (*str*) – Named arguments to update.

Examples

Update description

```
>>> stored_query.update(description='this query finds all the relevant...')
```

class stardog.admin.**User**(*name, client*)

Bases: object

See also:

https://www.stardog.com/docs/#_security

__init__(*name, client*)

Initializes a User.

Use `stardog.admin.Admin.user()`, `stardog.admin.Admin.users()`, or `stardog.admin.Admin.new_user()` instead of constructing manually.

add_permission(*action, resource_type, resource*)

Add a permission to the user.

See also:

https://www.stardog.com/docs/#_permissions

Parameters

- **action** (*str*) – Action type (e.g., ‘read’, ‘write’)
- **resource_type** (*str*) – Resource type (e.g., ‘user’, ‘db’)
- **resource** (*str*) – Target resource (e.g., ‘username’, ‘*’)

Examples

```
>>> user.add_permission('read', 'user', 'username')
>>> user.add_permission('write', '*', '*')
```

add_role(*role*)

Adds an existing role to the user.

Parameters **role** (*str* or **Role**) – The role to add or its name

Examples

```
>>> user.add_role('reader')
>>> user.add_role(admin.role('reader'))
```

delete()

Deletes the user.

effective_permissions()

Gets the user’s effective permissions.

Returns User effective permissions

Return type dict

is_enabled()

Checks if the user is enabled.

Returns User activation state

Return type bool

is_superuser()

Checks if the user is a super user.

Returns Superuser state

Return type bool

property name

The user name.

Type str

permissions()

Gets the user permissions.

See also:

https://www.stardog.com/docs/#_permissions

Returns User permissions

Return type dict

remove_permission(action, resource_type, resource)

Removes a permission from the user.

See also:

https://www.stardog.com/docs/#_permissions

Parameters

- **action** (*str*) – Action type (e.g., ‘read’, ‘write’)
- **resource_type** (*str*) – Resource type (e.g., ‘user’, ‘db’)
- **resource** (*str*) – Target resource (e.g., ‘username’, ‘*’)

Examples

```
>>> user.remove_permission('read', 'user', 'username')
>>> user.remove_permission('write', '*', '*')
```

remove_role(role)

Removes a role from the user.

Parameters **role** (*str or Role*) – The role to remove or its name

Examples

```
>>> user.remove_role('reader')
>>> user.remove_role(admin.role('reader'))
```

roles()

Gets all the User’s roles.

Returns list[Role]

set_enabled(*enabled*)

Enables or disables the user.

Parameters **enabled** (*bool*) – Desired User state

set_password(*password*)

Sets a new password.

Parameters **password** (*str*) –

set_roles(**roles*)

Sets the roles of the user.

Parameters ***roles** (*str* or Role) – The roles to add the User to

Examples

```
>>> user.set_roles('reader', admin.role('writer'))
```

class stardog.admin.VirtualGraph(*name, client*)

Bases: object

Virtual Graph

See also:

https://www.stardog.com/docs/#_structured_data

__init__(*name, client*)

Initializes a virtual graph.

Use `stardog.admin.Admin.virtual_graph()`, `stardog.admin.Admin.virtual_graphs()`, or `stardog.admin.Admin.new_virtual_graph()` instead of constructing manually.

available()

Checks if the Virtual Graph is available.

Returns Availability state

Return type bool

delete()

Deletes the Virtual Graph.

get_database()

Gets database associated with the VirtualGraph.

Returns Database name

Return type string

info()

Gets Virtual Graph info.

Returns Info

Return type dict

mappings(*content_type='text/turtle'*)

Gets the Virtual Graph mappings (Deprecated, see `mappings_string` instead).

Parameters

- **content_type** (*str*) – Content type for results.

- **'text/turtle'** (Defaults to) –

Returns Mappings in given content type

Return type bytes

mappings_string(*syntax='STARDOG'*)

Returns graph mappings as RDF :param syntax: The desired RDF syntax of the mappings (STARDOG, R2RML, or SMS2). :type syntax: str :param Defaults to 'STARDOG':

Returns Mappings in given content type

Return type string

property name

The name of the virtual graph.

options()

Gets Virtual Graph options.

Returns Options

Return type dict

update(*name, mappings, options={}, datasource=None, db=None*)

Updates the Virtual Graph.

Parameters

- **name** (*str*) – The new name
- **mappings** (*Content*) – New mapping contents
- **options** (*dict*) – New options

Examples

```
>>> vg.update('users', File('mappings.ttl'),
              {'jdbc.driver': 'com.mysql.jdbc.Driver'})
```

2.3 stardog.content

Content that can be loaded into Stardog.

class stardog.content.**Content**

Bases: object

Content base class.

class stardog.content.**File**(*fname, content_type=None, content_encoding=None, name=None*)

Bases: *stardog.content.Content*

File-based content.

__init__(*fname, content_type=None, content_encoding=None, name=None*)

Initializes a File object.

Parameters

- **fname** (*str*) – Filename

- **content_type** (*str*, *optional*) – Content type. It will be automatically detected from the filename
- **content_encoding** (*str*, *optional*) – Content encoding. It will be automatically detected from the filename
- **name** (*str*, *optional*) – Object name. It will be automatically detected from the filename

Examples

```
>>> File('data.ttl')
>>> File('data.doc', 'application/msword')
```

data()

class stardog.content.Raw(*content*, *content_type=None*, *content_encoding=None*, *name=None*)

Bases: *stardog.content.Content*

User-defined content.

__init__ (*content*, *content_type=None*, *content_encoding=None*, *name=None*)

Initializes a Raw object.

Parameters

- **content** (*obj*) – Object representing the content (e.g., str, file)
- **content_type** (*str*, *optional*) – Content type
- **content_encoding** (*str*, *optional*) – Content encoding
- **name** (*str*, *optional*) – Object name

Examples

```
>>> Raw(':luke a :Human', 'text/turtle', name='data.ttl')
>>> Raw(':úãäoñr a :Employee .' .encode('utf-8'), 'text/turtle')
```

data()

class stardog.content.URL(*url*, *content_type=None*, *content_encoding=None*, *name=None*)

Bases: *stardog.content.Content*

Url-based content.

__init__ (*url*, *content_type=None*, *content_encoding=None*, *name=None*)

Initializes a URL object.

Parameters

- **url** (*str*) – Url
- **content_type** (*str*, *optional*) – Content type. It will be automatically detected from the url
- **content_encoding** (*str*, *optional*) – Content encoding. It will be automatically detected from the filename
- **name** (*str*, *optional*) – Object name. It will be automatically detected from the url

Examples

```
>>> URL('http://example.com/data.ttl')
>>> URL('http://example.com/data.doc', 'application/msword')
```

`data()`

2.4 stardog.exceptions

exception `stardog.exceptions.StardogException`

Bases: `Exception`

General Stardog Exceptions

exception `stardog.exceptions.TransactionException`

Bases: `stardog.exceptions.StardogException`

Transaction Exceptions

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