
data-pipelines-cli

GetInData

Mar 24, 2022

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INSTALLATION

Use the package manager `pip` to install `dp` (data-pipelines-cli):

```
pip install data-pipelines-cli
```

1.1 Usage

First, create a repository with a global configuration file that you or your organization will be using. The repository should contain `dp.yml.tpl` file looking similar to this:

```
templates:
  my-first-template:
    template_name: my-first-template
    template_path: https://github.com/<YOUR_USERNAME>/<YOUR_TEMPLATE>.git
vars:
  username: YOUR_USERNAME
```

Thanks to the `copier`, you can leverage Jinja template syntax to create easily modifiable configuration templates. Just create a `copier.yml` file next to the `dp.yml.tpl` one and configure the template questions (read more at [copier documentation](#)).

Then, run `dp init <CONFIG_REPOSITORY_URL>` to initialize **dp**. You can also drop `<CONFIG_REPOSITORY_URL>` argument, **dp** will get initialized with an empty config.

1.1.1 Project creation

You can use `dp create <NEW_PROJECT_PATH>` to choose one of the templates added before and create the project in the `<NEW_PROJECT_PATH>` directory.

You can also use `dp create <NEW_PROJECT_PATH> <LINK_TO_TEMPLATE_REPOSITORY>` to point directly to a template repository. If `<LINK_TO_TEMPLATE_REPOSITORY>` proves to be the name of the template defined in **dp**'s config file, `dp create` will choose the template by the name instead of trying to download the repository.

`dp template-list` lists all added templates.

1.1.2 Project update

To update your pipeline project use `dp update <PIPELINE_PROJECT-PATH>`. It will sync your existing project with updated template version selected by `--vcs-ref` option (default HEAD).

1.1.3 Project configuration

dp as a tool depends on a few files in your project directory. In your project directory, it must be able to find a `config` directory with a structure looking similar to this:

```
config
├── base
│   ├── dbt.yml
│   ├── bigquery.yml
│   └── ...
├── dev
│   └── bigquery.yml
├── local
│   ├── dbt.yml
│   └── bigquery.yml
└── prod
    └── bigquery.yml
```

Whenever you call **dp**'s command with the `--env <ENV>` flag, the tool will search for `dbt.yml` and `<TARGET_TYPE>.yml` files in `base` and `<ENV>` directory and parse important info out of them, with `<ENV>` settings taking precedence over those listed in `base`. So, for example, for the following files:

```
# config/base/dbt.yml
target: env_execution
target_type: bigquery

# config/base/bigquery.yml
method: oauth
project: my-gcp-project
dataset: my-dataset
threads: 1

# cat config/dev/bigquery.yml
dataset: dev-dataset
```

`dp test --env dev` will run `dp test` command using values from those files, most notably with `dataset: dev-dataset` overwriting `dataset: my-dataset` setting.

dp synthesizes `dbt's profiles.yml` out of those settings among other things. However, right now it only creates `local` or `env_execution` profile, so if you want to use different settings amongst different environments, you should rather use `{{ env_var('VARIABLE') }}` as a value and provide those settings as environment variables. E.g., by setting those in your `config/<ENV>/k8s.yml` file, in `envs` dictionary:


```
# config/base/bigquery.yml
method: oauth
dataset: "{{ env_var('GCP_DATASET') }}"
project: my-gcp-project
threads: 1

# config/base/execution_env.yml
# ... General config for execution env ...

# config/base/k8s.yml
# ... Kubernetes settings ...

# config/dev/k8s.yml
envs:
  GCP_DATASET: dev-dataset

# config/prod/k8s.yml
envs:
  GCP_DATASET: prod-dataset
```

target and target_type

- target setting in config/<ENV>/dbt.yml should be set either to local or env_execution;
- target_type defines which backend dbt will use and what file **dp** will search for; example target_types are bigquery or snowflake.

Variables

You can put a dictionary of variables to be passed to dbt in your config/<ENV>/dbt.yml file, following the convention presented in [the guide at the dbt site](#). E.g., if one of the fields of config/<SNOWFLAKE_ENV>/snowflake.yml looks like this:

```
schema: "{{ var('snowflake_schema') }}"
```

you should put the following in your config/<SNOWFLAKE_ENV>/dbt.yml file:

```
vars:
  snowflake_schema: EXAMPLE_SCHEMA
```

and then run your `dp run --env <SNOWFLAKE_ENV>` (or any similar command).

You can also add “global” variables to your **dp** config file `$HOME/.dp.yml`. Be aware, however, that those variables get erased on every `dp init` call. It is a great idea to put *commonly used* variables in your organization’s `dp.yml.tpl` template and make **copier** ask for those when initializing **dp**. By doing so, each member of your organization will end up with a list of user-specific variables reusable across different projects on its machine. Just remember, **global-scoped variables take precedence over project-scoped ones**.

1.1.4 dbt sources and models creation

With the help of `dbt-codegen` and `dbt-profiler`, one can easily generate `source.yml`, source's base model SQLs, and model-related YAMLs. **dp** offers a convenient CLI wrapper around those functionalities.

First, add the **dbt-codegen** package to your `packages.yml` file:

```
packages:
- package: dbt-codegen
  version: 0.5.0 # or newer
```

Then, run `dp generate source-yaml YOUR_DATASET_NAME` to generate `source.yml` file in `models/source` directory. You can list more than one dataset, divided by space. After that, you are free to modify this file.

When you want to generate SQLs for your sources, run `dp generate source-sql`. It will save those SQLs in the directory `models/staging/YOUR_DATASET_NAME`.

Finally, when you have all your models prepared (in the form of SQLs), run `dp generate model-yaml MODELS_DIR` to generate YAML files describing them (once again, you are not only free to modify them but also encouraged to do so!). E.g., given such a directory structure:

```
models
├── staging
│   ├── my_source
│   │   ├── stg_table1.sql
│   │   └── stg_table2.sql
│   └── intermediate
│       ├── intermediate1.sql
│       ├── intermediate2.sql
│       └── intermediate3.sql
└── presentation
    └── presentation1.sql
```

`dp generate model-yaml models/` will create `models/staging/my_source/my_source.yml`, `models/staging/intermediate/intermediate.yml`, and `models/presentation/presentation.yml`. Beware, however, this command WILL NOT WORK if you do not have those models created in your data warehouse already. So remember to run `dp run` (or a similar command) beforehand.

If you add the **dbt-profiler** package to your `packages.yml` file too, you can call `dp generate model-yaml --with-meta MODELS_DIR`. **dbt-profiler** will add a lot of profiling metadata to descriptions of your models.

1.1.5 Project compilation

`dp compile` prepares your project to be run on your local machine and/or deployed on a remote one.

1.1.6 Local run

When you get your project configured, you can run `dp run` and `dp test` commands.

- `dp run` runs the project on your local machine,
- `dp test` run tests for your project on your local machine.

1.1.7 Project deployment

`dp deploy` will sync with your bucket provider. The provider will be chosen automatically based on the remote URL. Usually, it is worth pointing `dp deploy` to a JSON or YAML file with provider-specific data like access tokens or project names. The *provider-specific data* should be interpreted as the `**kwargs` (keyword arguments) expected by a specific `fsspec`'s `FileSystem` implementation. One would most likely want to look at the [S3FileSystem](#) or [GCSFileSystem](#) documentation.

E.g., to connect with Google Cloud Storage, one should run:

```
echo '{"token": "<PATH_TO_YOUR_TOKEN>", "project_name": "<YOUR_PROJECT_NAME>"}' > gs_
↪args.json
dp deploy --dags-path "gs://<YOUR_GS_PATH>" --blob-args gs_args.json
```

However, in some cases, you do not need to do so, e.g. when using **gcloud** with properly set local credentials. In such a case, you can try to run just the `dp deploy --dags-path "gs://<YOUR_GS_PATH>"` command and let `gcsfs` search for the credentials. Please refer to the documentation of the specific `fsspec`'s implementation for more information about the required keyword arguments.

dags-path as config argument

You can also list your path in the `config/base/airflow.yml` file, as a `dags_path` argument:

```
dags_path: gs://<YOUR_GS_PATH>
# ... rest of the 'airflow.yml' file
```

In such a case, you do not have to provide a `--dags-path` flag, and you can just call `dp deploy` instead.

1.1.8 Packing and publishing

The built project can be processed to a **dbt** package by calling `dp publish`. `dp publish` parses `manifest.json` and prepares a package that lists models outputted by transformations, saving it in the `build/package` directory.

1.1.9 Preparing dbt environment

Sometimes you would like to use standalone **dbt** or an application that interfaces with it (like VS Code plugin). `dp prepare-env` prepares your local environment to be more conformant with standalone **dbt** requirements, e.g., by saving `profiles.yml` in the home directory.

However, be aware that most of the time you do not need to do so, and you can comfortably use `dp run` and `dp test` commands to interface with the **dbt** instead.

1.1.10 Clean project

When finished, call `dp clean` to remove compilation-related directories.

1.2 CLI Commands Reference

If you are looking for extensive information on a specific CLI command, this part of the documentation is for you.

1.2.1 dp

```
dp [OPTIONS] COMMAND [ARGS]...
```

Options

--version

Show the version and exit.

clean

Delete local working directories

```
dp clean [OPTIONS]
```

compile

Create local working directories and build artifacts

```
dp compile [OPTIONS]
```

Options

- env** <env>
 Required Name of the environment
- Default** base
- docker-build**
 Whether to build a Docker image

create

Create a new project using a template

```
dp create [OPTIONS] PROJECT_PATH [TEMPLATE_PATH] ...
```

Arguments

- PROJECT_PATH**
 Required argument
- TEMPLATE_PATH**
 Optional argument(s)

deploy

Push and deploy the project to the remote machine

```
dp deploy [OPTIONS]
```

Options

- env** <env>
 Name of the environment
- Default** base
- dags-path** <dags_path>
 Remote storage URI
- blob-args** <blob_args>
 Path to JSON or YAML file with arguments that should be passed to your Bucket/blob provider
- docker-push**
 Whether to push image to the Docker repository
- datahub-ingest**
 Whether to ingest DataHub metadata

generate

Generate additional dbt files

```
dp generate [OPTIONS] COMMAND [ARGS]...
```

model-yaml

Generate schema YAML using codegen or dbt-profiler

```
dp generate model-yaml [OPTIONS] [MODEL_PATH]...
```

Options

--env <env>

Name of the environment

Default local

--with-meta

Whether to generate dbt-profiler metadata

--overwrite

Whether to overwrite existing YAML files

Arguments

MODEL_PATH

Optional argument(s)

source-sql

Generate SQLs that represents tables in given dataset

```
dp generate source-sql [OPTIONS]
```

Options

--env <env>

Name of the environment

Default local

--source-yaml-path <source_yaml_path>

Required Path to the 'source.yml' schema file

Default /home/docs/checkouts/readthedocs.org/user_builds/data-pipelines-cli/checkouts/0.16.0/docs/models/source/source.yml

--staging-path <staging_path>

Required Path to the 'staging' directory

Default /home/docs/checkouts/readthedocs.org/user_builds/data-pipelines-cli/checkouts/0.16.0/docs/models/staging

--overwrite

Whether to overwrite existing SQL files

source-yaml

Generate source YAML using codegen

```
dp generate source-yaml [OPTIONS] [SCHEMA_NAME]...
```

Options

--env <env>

Name of the environment

Default local

--source-path <source_path>

Required Path to the 'source' directory

Default /home/docs/checkouts/readthedocs.org/user_builds/data-pipelines-cli/checkouts/0.16.0/docs/models/source

--overwrite

Whether to overwrite an existing YAML file

Arguments

SCHEMA_NAME

Optional argument(s)

init

Configure the tool for the first time

```
dp init [OPTIONS] [CONFIG_PATH]...
```

Arguments

CONFIG_PATH

Optional argument(s)

prepare-env

Prepare local environment for apps interfacing with dbt

```
dp prepare-env [OPTIONS]
```

Options

--env <env>
Name of the environment

publish

Create a dbt package out of the project

```
dp publish [OPTIONS]
```

Options

--key-path <key_path>
Required Path to the key with write access to repo with published packages

--env <env>
Required Name of the environment
Default base

run

Run the project on the local machine

```
dp run [OPTIONS]
```

Options

--env <env>
Name of the environment
Default local

template-list

Print a list of all templates saved in the config file

```
dp template-list [OPTIONS]
```


test

Run tests of the project on the local machine

```
dp test [OPTIONS]
```

Options

--env <env>

Name of the environment

Default local

update

Update project from its template

```
dp update [OPTIONS] [PROJECT_PATH] ...
```

Options

--vcs-ref <vcs_ref>

Git reference to checkout

Arguments

PROJECT_PATH

Optional argument(s)

1.3 API Reference

If you are looking for information on a specific function, class, or method, this part of the documentation is for you.

1.3.1 data_pipelines_cli package

data-pipelines-cli (dp) is a CLI tool designed for data platform.

dp helps data analysts to create, maintain and make full use of their data pipelines.

Subpackages

`data_pipelines_cli.cli_commands` package

Subpackages

`data_pipelines_cli.cli_commands.generate` package

Submodules

`data_pipelines_cli.cli_commands.generate.generate` module

`data_pipelines_cli.cli_commands.generate.model_yaml` module

```
class MacroArgName(**kwargs)
```

```
    Bases: dict
```

```
    arg_name: str
```

```
    deps_name: str
```

```
    macro_name: str
```

```
generate_model_yamls(env: str, with_meta: bool, overwrite: bool, model_paths: Sequence[pathlib.Path]) →  
    None
```

`data_pipelines_cli.cli_commands.generate.source_sql` module

```
generate_source_sqls(env: str, source_yaml_path: pathlib.Path, staging_path: pathlib.Path, overwrite: bool)  
    → None
```

`data_pipelines_cli.cli_commands.generate.source_yaml` module

```
generate_source_yamls(env: str, source_path: pathlib.Path, overwrite: bool, schema_names: Sequence[str]) →  
    None
```

`data_pipelines_cli.cli_commands.generate.utils` module

```
generate_models_or_sources_from_single_table(env: str, macro_name: str, macro_args: Dict[str, Any],  
    profiles_path: pathlib.Path) → Dict[str, Any]
```

```
get_macro_run_output(env: str, macro_name: str, macro_args: Dict[str, str], profiles_path: pathlib.Path) → str
```

```
get_output_file_or_warn_if_exists(directory: pathlib.Path, overwrite: bool, file_extension: str, filename:  
    Optional[str] = None) → Optional[pathlib.Path]
```

Submodules

data_pipelines_cli.cli_commands.clean module

clean() → None

Delete local working directories.

data_pipelines_cli.cli_commands.compile module

compile_project(*env: str, docker_build: bool = False*) → None

Create local working directories and build artifacts.

Parameters

- **env** (*str*) – Name of the environment
- **docker_build** (*bool*) – Whether to build a Docker image

Raises *DataPipelinesError* –

replace_image_settings(*docker_args: data_pipelines_cli.data_structures.DockerArgs*) → None

data_pipelines_cli.cli_commands.create module

create(*project_path: str, template_path: Optional[str]*) → None

Create a new project using a template.

Parameters

- **project_path** (*str*) – Path to a directory to create
- **template_path** (*Optional[str]*) – Path or URI to the repository of the project template

Raises *DataPipelinesError* – no template found in *.dp.yml* config file

data_pipelines_cli.cli_commands.deploy module

class DeployCommand(*env: str, docker_push: bool, dags_path: Optional[str], provider_kwargs_dict: Optional[Dict[str, Any]], datahub_ingest: bool*)

Bases: object

A class used to push and deploy the project to the remote machine.

blob_address_path: str

URI of the cloud storage to send build artifacts to

datahub_ingest: bool

Whether to ingest DataHub metadata

deploy() → None

Push and deploy the project to the remote machine.

Raises

- *DependencyNotInstalledError* – DataHub or Docker not installed
- *DataPipelinesError* – Error while pushing Docker image

docker_args: `Optional[data_pipelines_cli.data_structures.DockerArgs]`

Arguments required by the Docker to make a push to the repository. If set to *None*, `deploy()` will not make a push

env: `str`

provider_kwargs_dict: `Dict[str, Any]`

Dictionary of arguments required by a specific cloud storage provider, e.g. path to a token, username, password, etc.

data_pipelines_cli.cli_commands.init module

init(*config_path: Optional[str]*) → *None*

Configure the tool for the first time.

Parameters **config_path** (*Optional[str]*) – URI of the repository with a template of the config file

Raises *DataPipelinesError* – user do not want to overwrite existing config file

data_pipelines_cli.cli_commands.prepare_env module

prepare_env(*env: str*) → *None*

Prepare local environment for use with dbt-related applications.

Prepare local environment for use with applications expecting a “traditional” dbt structure, such as plugins to VS Code. If in doubt, use `dp run` and `dp test` instead.

Parameters **env** (*str*) – Name of the environment

data_pipelines_cli.cli_commands.publish module

create_package() → *pathlib.Path*

Create a dbt package out of the built project.

Raises *DataPipelinesError* – There is no model in ‘manifest.json’ file.

publish_package(*package_path: pathlib.Path, key_path: str, env: str*) → *None*

data_pipelines_cli.cli_commands.run module

run(*env: str*) → *None*

Run the project on the local machine.

Parameters **env** (*str*) – Name of the environment

data_pipelines_cli.cli_commands.template module**list_templates()** → None

Print a list of all templates saved in the config file.

data_pipelines_cli.cli_commands.test module**test(env: str)** → None

Run tests of the project on the local machine.

Parameters **env** (str) – Name of the environment**data_pipelines_cli.cli_commands.update module****update(project_path: str, vcs_ref: str)** → None

Update an existing project from its template.

Parameters

- **project_path** (str) – Path to a directory to create
- **vcs_ref** (str) – Git reference to checkout in projects template

Submodules**data_pipelines_cli.cli module****cli()** → None**data_pipelines_cli.cli_configs module****find_datahub_config_file(env: str)** → pathlib.Path**data_pipelines_cli.cli_constants module****DEFAULT_GLOBAL_CONFIG:** *data_pipelines_cli.data_structures.DataPipelinesConfig* = {'templates': {}, 'vars': {}}Content of the config file created by *dp init* command if no template path is provided**IMAGE_TAG_TO_REPLACE:** str = '<IMAGE_TAG>'**PROFILE_NAME_ENV_EXECUTION** = 'env_execution'

Name of the dbt target to use for a remote machine

PROFILE_NAME_LOCAL_ENVIRONMENT = 'local'

Name of the environment and dbt target to use for a local machine

get_dbt_profiles_env_name(env: str) → strGiven a name of the environment, returns one of target names expected by the *profiles.yml* file.**Parameters** **env** (str) – Name of the environment**Returns** Name of the *target* to be used in *profiles.yml*

data_pipelines_cli.cli_utils module**echo_error**(*text: str, **kwargs: Any*) → None

Print an error message to stderr using click-specific print function.

Parameters

- **text** (*str*) – Message to print
- **kwargs** –

echo_info(*text: str, **kwargs: Any*) → None

Print a message to stdout using click-specific print function.

Parameters

- **text** (*str*) – Message to print
- **kwargs** –

echo_suberror(*text: str, **kwargs: Any*) → None

Print a suberror message to stderr using click-specific print function.

Parameters

- **text** (*str*) – Message to print
- **kwargs** –

echo_subinfo(*text: str, **kwargs: Any*) → None

Print a subinfo message to stdout using click-specific print function.

Parameters

- **text** (*str*) – Message to print
- **kwargs** –

echo_warning(*text: str, **kwargs: Any*) → None

Print a warning message to stderr using click-specific print function.

Parameters

- **text** (*str*) – Message to print
- **kwargs** –

get_argument_or_environment_variable(*argument: Optional[str], argument_name: str, environment_variable_name: str*) → strGiven *argument* is not None, return its value. Otherwise, search for *environment_variable_name* amongst environment variables and return it. If such a variable is not set, raise [*DataPipelinesError*](#).**Parameters**

- **argument** (*Optional[str]*) – Optional value passed to the CLI as the *argument_name*
- **argument_name** (*str*) – Name of the CLI's argument
- **environment_variable_name** (*str*) – Name of the environment variable to search for

Returns Value of the *argument* or specified environment variable**Raises** [*DataPipelinesError*](#) – *argument* is None and *environment_variable_name* is not set**subprocess_run**(*args: List[str], capture_output: bool = False*) → subprocess.CompletedProcess[bytes]Run subprocess and return its state if completed with a success. If not, raise [*SubprocessNonZeroExitError*](#).**Parameters**

- **args** (*List[str]*) – List of strings representing subprocess and its arguments
- **capture_output** (*bool*) – Whether to capture output of subprocess.

Returns State of the completed process

Return type `subprocess.CompletedProcess[bytes]`

Raises [*SubprocessNonZeroExitError*](#) – subprocess exited with non-zero exit code

data_pipelines_cli.config_generation module

class `DbtProfile(**kwargs)`

Bases: `dict`

POD representing dbt's *profiles.yml* file.

outputs: `Dict[str, Dict[str, Any]]`

Dictionary of a warehouse data and credentials, referenced by *target* name

target: `str`

Name of the *target* for dbt to run

copy_config_dir_to_build_dir() → `None`

Recursively copy *config* directory to *build/dag/config* working directory.

copy_dag_dir_to_build_dir() → `None`

Recursively copy *dag* directory to *build/dag* working directory.

generate_profiles_dict(*env: str, copy_config_dir: bool*) → `Dict[str, data_pipelines_cli.config_generation.DbtProfile]`

Generate and save *profiles.yml* file at *build/profiles/local* or *build/profiles/env_execution*, depending on *env* argument.

Parameters

- **env** (*str*) – Name of the environment
- **copy_config_dir** (*bool*) – Whether to copy *config* directory to *build* working directory

Returns Dictionary representing data to be saved in *profiles.yml*

Return type `Dict[str, DbtProfile]`

generate_profiles_yaml(*env: str, copy_config_dir: bool = True*) → `pathlib.Path`

Generate and save *profiles.yml* file at *build/profiles/local* or *build/profiles/env_execution*, depending on *env* argument.

Parameters

- **env** (*str*) – Name of the environment
- **copy_config_dir** (*bool*) – Whether to copy *config* directory to *build* working directory

Returns Path to *build/profiles/{env}*

Return type `pathlib.Path`

get_profiles_dir_build_path(*env: str*) → `pathlib.Path`

Returns path to *build/profiles/<profile_name>/*, depending on *env* argument.

Parameters **env** (*str*) – Name of the environment

Returns

Return type `pathlib.Path`

read_dictionary_from_config_directory(*config_path*: Union[str, os.PathLike[str]], *env*: str, *file_name*: str) → Dict[str, Any]

Read dictionaries out of *file_name* in both *base* and *env* directories, and compile them into one. Values from *env* directory get precedence over *base* ones.

Parameters

- **config_path** (Union[str, os.PathLike[str]]) – Path to the *config* directory
- **env** (str) – Name of the environment
- **file_name** (str) – Name of the YAML file to parse dictionary from

Returns Compiled dictionary

Return type Dict[str, Any]

data_pipelines_cli.data_structures module

class DataPipelinesConfig(**kwargs)

Bases: dict

POD representing *.dp.yml* config file.

templates: Dict[str, data_pipelines_cli.data_structures.TemplateConfig]

Dictionary of saved templates to use in *dp create* command

vars: Dict[str, str]

Variables to be passed to dbt as *--vars* argument

class DbtModel(**kwargs)

Bases: dict

POD representing a single model from ‘schema.yml’ file.

columns: List[data_pipelines_cli.data_structures.DbtTableColumn]

description: str

identifier: str

meta: Dict[str, Any]

name: str

tags: List[str]

tests: List[str]

class DbtSource(**kwargs)

Bases: dict

POD representing a single source from ‘schema.yml’ file.

database: str

description: str

meta: Dict[str, Any]

name: str

schema: str

tables: List[data_pipelines_cli.data_structures.DbtModel]

tags: List[str]

```

class DbtTableColumn(**kwargs)
    Bases: dict
    POD representing a single column from 'schema.yml' file.
    description: str
    meta: Dict[str, Any]
    name: str
    quote: bool
    tags: List[str]
    tests: List[str]

class DockerArgs(env: str)
    Bases: object
    Arguments required by the Docker to make a push to the repository.
    Raises DataPipelinesError – repository variable not set or git hash not found
    commit_sha: str
        Long hash of the current Git revision. Used as an image tag
    docker_build_tag() → str
        Prepare a tag for Docker Python API build command.
        Returns Tag for Docker Python API build command
        Return type str
    repository: str
        URI of the Docker images repository

class TemplateConfig(**kwargs)
    Bases: dict
    POD representing value referenced in the templates section of the .dp.yml config file.
    template_name: str
        Name of the template
    template_path: str
        Local path or Git URI to the template repository

read_env_config() → data_pipelines_cli.data_structures.DataPipelinesConfig
    Parse .dp.yml config file, if it exists. Otherwise, raises NoConfigFileError.
    Returns POD representing .dp.yml config file, if it exists
    Return type DataPipelinesConfig
    Raises NoConfigFileError – .dp.yml file not found

```

data_pipelines_cli.dbt_utils module

read_dbt_vars_from_configs(*env: str*) → Dict[str, Any]

Read *vars* field from dp configuration file (\$HOME/.dp.yml), base dbt.yml config (config/base/dbt.yml) and environment-specific config (config/{env}/dbt.yml) and compile into one dictionary.

Parameters *env* (*str*) – Name of the environment

Returns Dictionary with *vars* and their keys

Return type Dict[str, Any]

run_dbt_command(*command: Tuple[str, ...]*, *env: str*, *profiles_path: pathlib.Path*, *log_format_json: bool = False*, *capture_output: bool = False*) → subprocess.CompletedProcess[bytes]

Run dbt subprocess in a context of specified *env*.

Parameters

- **command** (*Tuple[str, ...]*) – Tuple representing dbt command and its optional arguments
- **env** (*str*) – Name of the environment
- **profiles_path** (*pathlib.Path*) – Path to the directory containing *profiles.yml* file
- **log_format_json** (*bool*) – Whether to run dbt command with *-log-format=json* flag
- **capture_output** (*bool*) – Whether to capture stdout of subprocess.

Returns State of the completed process

Return type subprocess.CompletedProcess[bytes]

Raises

- **SubprocessNotFound** – dbt not installed
- **SubprocessNonZeroExitError** – dbt exited with error

data_pipelines_cli.docker_response_reader module

class DockerReadResponse(*msg: str*, *is_error: bool*)

Bases: object

POD representing Docker response processed by *DockerResponseReader*.

is_error: bool

Whether response is error or not

msg: str

Read and processed message

class DockerResponseReader(*logs_generator: Iterable[Union[str, Dict[str, Union[str, Dict[str, str]]]]]*)

Bases: object

Read and process Docker response.

Docker response turns into processed strings instead of plain dictionaries.

cached_read_response:

Optional[List[*data_pipelines_cli.docker_response_reader.DockerReadResponse*]]

Internal cache of already processed response

click_echo_ok_responses() → None

Read, process and print positive Docker updates.

Raises *DockerErrorResponseError* – Came across error update in Docker response.

logs_generator: `Iterable[Union[str, Dict[str, Union[str, Dict[str, str]]]]]`
 Iterable representing Docker response

read_response() → `List[data_pipelines_cli.docker_response_reader.DockerReadResponse]`
 Read and process Docker response.

Returns List of processed lines of response

Return type `List[DockerReadResponse]`

data_pipelines_cli.errors module

exception AirflowDagsPathKeyError

Bases: *data_pipelines_cli.errors.DataPipelinesError*

Exception raised if there is no dags_path in *airflow.yml* file.

message: `str`
 explanation of the error

submessage: `Optional[str]`
 additional informations for the error

exception DataPipelinesError(message: str, submessage: Optional[str] = None)

Bases: `Exception`

Base class for all exceptions in data_pipelines_cli module

message: `str`
 explanation of the error

submessage: `Optional[str]`
 additional informations for the error

exception DependencyNotInstalledError(program_name: str)

Bases: *data_pipelines_cli.errors.DataPipelinesError*

Exception raised if certain dependency is not installed

message: `str`
 explanation of the error

submessage: `Optional[str]`
 additional informations for the error

exception DockerErrorResponseError(error_msg: str)

Bases: *data_pipelines_cli.errors.DataPipelinesError*

Exception raised if there is an error response from Docker client.

message: `str`
 explanation of the error

submessage: `Optional[str]`
 additional informations for the error

exception DockerNotInstalledError

Bases: *data_pipelines_cli.errors.DependencyNotInstalledError*

Exception raised if 'docker' is not installed

message: **str**
explanation of the error

submessage: **Optional[str]**
additional informations for the error

exception JinjaVarKeyError(*key: str*)
Bases: *data_pipelines_cli.errors.DataPipelinesError*

message: **str**
explanation of the error

submessage: **Optional[str]**
additional informations for the error

exception NoConfigFileError
Bases: *data_pipelines_cli.errors.DataPipelinesError*

Exception raised if *.dp.yml* does not exist

message: **str**
explanation of the error

submessage: **Optional[str]**
additional informations for the error

exception NotAProjectDirectoryError(*project_path: str*)
Bases: *data_pipelines_cli.errors.DataPipelinesError*

Exception raised if *.copier-answers.yml* file does not exist in given dir

message: **str**
explanation of the error

submessage: **Optional[str]**
additional informations for the error

exception SubprocessNonZeroExitError(*subprocess_name: str, exit_code: int, subprocess_output: Optional[str] = None*)
Bases: *data_pipelines_cli.errors.DataPipelinesError*

Exception raised if subprocess exits with non-zero exit code

message: **str**
explanation of the error

submessage: **Optional[str]**
additional informations for the error

exception SubprocessNotFound(*subprocess_name: str*)
Bases: *data_pipelines_cli.errors.DataPipelinesError*

Exception raised if subprocess cannot be found

message: **str**
explanation of the error

submessage: **Optional[str]**
additional informations for the error

data_pipelines_cli.filesystem_utils module

class LocalRemoteSync(*local_path*: Union[str, os.PathLike[str]], *remote_path*: str, *remote_kwargs*: Dict[str, str])

Bases: object

Synchronizes local directory with a cloud storage's one.

local_fs: fsspec.spec.AbstractFileSystem

FS representing local directory

local_path_str: str

Path to local directory

remote_path_str: str

Path/URI of the cloud storage directory

sync(*delete*: bool = True) → None

Send local files to the remote directory and (optionally) delete unnecessary ones.

Parameters **delete** (bool) – Whether to delete remote files that are no longer present in local directory

data_pipelines_cli.io_utils module

git_revision_hash() → Optional[str]

Get current Git revision hash, if Git is installed and any revision exists.

Returns Git revision hash, if possible.

Return type Optional[str]

replace(*filename*: Union[str, os.PathLike[str]], *pattern*: str, *replacement*: str) → None

Perform the pure-Python equivalent of in-place *sed* substitution: e.g., `sed -i -e 's/{pattern}/{replacement}' '{filename}'`.

Beware however, it uses Python regex dialect instead of *sed*'s one. It can introduce regex-related bugs.

data_pipelines_cli.jinja module

replace_vars_with_values(*templated_dictionary*: Dict[str, Any], *dbt_vars*: Dict[str, Any]) → Dict[str, Any]

Replace variables in given dictionary using Jinja template in its values.

Parameters

- **templated_dictionary** (Dict[str, Any]) – Dictionary with Jinja-templated values
- **dbt_vars** (Dict[str, Any]) – Variables to replace

Returns Dictionary with replaced variables

Return type Dict[str, Any]

Raises *JinjaVarKeyError* – Variable referenced in Jinja template does not exist

data_pipelines_cli.vcs_utils module

Utilities related to VCS.

add_suffix_to_git_template_path(*template_path: str*) → str

Add `.git` suffix to *template_path*, if necessary.

Check if *template_path* starts with Git-specific prefix (e.g. `git://`), or `http://` or `https://` protocol. If so, then add `.git` suffix if not present. Does nothing otherwise (as *template_path* probably points to a local directory).

Parameters `template_path (str)` – Path or URI to Git-based repository

Returns *template_path* with `.git` as suffix, if necessary

Return type str

1.4 Changelog

1.4.1 Unreleased

1.4.2 0.16.0 - 2022-03-24

Added

- `dp generate source-yaml` and `dp generate model-yaml` commands that automatically generate YAML schema files for project's sources or models, respectively (using `dbt-codegen` or `dbt-profiler` under the hood).
- `dp generate source-sql` command that generates SQL representing sources listed in `source.yml` (or a similar file) (again, with the help of `dbt-codegen`).

1.4.3 0.15.2 - 2022-02-28

Changed

- Bumped `dbt` to 1.0.3.

1.4.4 0.15.1 - 2022-02-28

Fixed

- Pinned `MarkupSafe==2.0.1` to ensure that Jinja works.

1.4.5 0.15.0 - 2022-02-11

- Migration to `dbt` 1.0.1

1.4.6 0.14.0 - 2022-02-02

1.4.7 0.13.0 - 2022-02-01

1.4.8 0.12.0 - 2022-01-31

- `dp publish` will push generated sources to external git repo

1.4.9 0.11.0 - 2022-01-18

Added

- `dp update` command
- `dp publish` command for creation of dbt package out of the project.

Changed

- Docker response in `deploy` and `compile` gets printed as processed strings instead of plain dictionaries.
- `dp compile` parses content of `datahub.yml` and replaces Jinja variables in the form of `var` or `env_var`.
- `dags_path` is read from an env'd `airflow.yml` file.

1.4.10 0.10.0 - 2022-01-12

Changed

- Run `dbt deps` at the end of `dp prepare-env`.

Fixed

- `dp run` and `dp test` are no longer pointing to `profiles.yml` instead of the directory containing it.

1.4.11 0.9.0 - 2022-01-03

Added

- `--env` flag to `dp deploy`.

Changed

- Docker repository URI gets read out of `build/config/{env}/k8s.yml`.

Removed

- `--docker-repository-uri` and `--datahub-gms-uri` from `dp compile` and `dp deploy` commands.
- `dp compile` no longer replaces `<INGEST_ENDPOINT>` in `datahub.yml`, or `<DOCKER_REPOSITORY_URL>` in `k8s.yml`

1.4.12 0.8.0 - 2021-12-31

Changed

- `dp init` and `dp create` automatically adds `.git` suffix to given template paths, if necessary.
- When reading dbt variables, global-scoped variables take precedence over project-scoped ones (it was another way around before).
- Address argument for `dp deploy` is no longer mandatory. It should be either placed in `airflow.yml` file as value of `dags_path` key, or provided with `--dags-path` flag.

1.4.13 0.7.0 - 2021-12-29

Added

- Add documentation in the style of [Read the Docs](#).
- Exception classes in `errors.py`, deriving from `DataPipelinesError` base exception class.
- Unit tests to massively improve code coverage.
- `--version` flag to **dp** command.
- Add `dp prepare-env` command that prepares local environment for standalone **dbt** (right now, it only generates and saves `profiles.yml` in `$HOME/.dbt`).

Changed

- `dp compile`:
 - `--env` option has a default value: `base`,
 - `--datahub` is changed to `--datahub-gms-uri`, `--repository` is changed to `--docker-repository-uri`.
- `dp deploy`'s `--docker-push` is not a flag anymore and requires a Docker repository URI parameter; `--repository` got removed then.
- `dp run` and `dp test` run `dp compile` before actual **dbt** command.
- Functions raise exceptions instead of exiting using `sys.exit(1)`; `cli.cli()` entrypoint is expecting exception and exits only there.
- `dp deploy` raises an exception if there is no Docker image to push or `build/config/dag` directory does not exist.
- Rename `gcp` to `gcs` in requirements (now one should run `pip install data-pipelines-cli[gcs]`).

1.4.14 0.6.0 - 2021-12-16

Modified

- **dp** saves generated `profiles.yml` in either `build/local` or `build/env_execution` directories. **dbt** gets executed with `env_execution` as the target.

1.4.15 0.5.1 - 2021-12-14

Fixed

- `_dbt_compile` is no longer removing replaced `<IMAGE_TAG>`.

1.4.16 0.5.0 - 2021-12-14

Added

- `echo_warning` function prints warning messages in yellow/orange color.

Modified

- Docker image gets built at the end of `compile` command.
- **dbt**-related commands do not fail if no `$HOME/.dp.yml` exists (e.g., `dp run`).

Removed

- Dropped `dbt-airflow-manifest-parser` dependency.

1.4.17 0.4.0 - 2021-12-13

Added

- `dp run` and `dp test` commands.
- `dp clean` command for removing `build` and `target` directories.
- File synchronization tests for Google Cloud Storage using `gcp-storage-emulator`.
- Read vars from config files (`$HOME/.dp.yml`, `config/$ENV/dbt.yml`) and pass to `dbt`.

Modified

- `profiles.yml` gets generated and saved in `build` directory in `dp compile`, instead of relying on a local one in the main project directory.
- `dp dbt <command>` generates `profiles.yml` in `build` directory by default.
- `dp init` is expecting `config_path` argument to download config template with the help of the `copier` and save it in `$HOME/.dp.yml`.
- `dp template list` is renamed as `dp template-list`.
- `dp create` allows for providing extra argument called `template-path`, being either name of one of templates defined in `.dp.yml` config file or direct link to Git repository.

Removed

- Support for manually created `profiles.yml` in main project directory.
- `dp template new` command.
- `username` field from `$HOME/.dp.yml` file.

1.4.18 0.3.0 - 2021-12-06

- Run `dbt deps` alongside rest of `dbt` commands in `dp compile`

1.4.19 0.2.0 - 2021-12-03

- Add support for GCP and S3 syncing in `dp deploy`

1.4.20 0.1.2 - 2021-12-02

- Fix: do not use styled `click.secho` for Docker push response, as it may not be a `str`

1.4.21 0.1.1 - 2021-12-01

- Fix Docker SDK for Python's bug related to tagging, which prevented Docker from pushing images.

1.4.22 0.1.0 - 2021-12-01**Added**

- Draft of `dp init`, `dp create`, `dp template new`, `dp template list` and `dp dbt`
- Draft of `dp compile` and `dp deploy`

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