°=

Using the Command Line Interface

US

This document is meant to give an overview of all common tasks while using the CLI.

Not

For more information on CLI commands, see Command Line Interface and Environment Variables Reference

Set Up connection to a remote Airflow instance

For some functions the CLI can use the REST API. To configure the CLI to use the API when available configure as follows:

```
[cli]
api_client = airflow.api.client.json_client
endpoint_url = http://<WEBSERVER>:<PORT>
```

Set Up Bash/Zsh Completion

When using bash (or zsh) as your shell, airflow can use argcomplete for auto-completion.

For global activation of all argcomplete enabled python applications run:

 $\verb+sudo+ activate-global-python-arg complete+\\$

For permanent (but not global) airflow activation, use:

register-python-argcomplete airflow >> ~/.bashrc

For one-time activation of argcomplete for airflow only, use:

eval "\$(register-python-argcomplete airflow)"



If you're using zsh, add the following to your .zshrc:

autoload bashcompinit
bashcompinit
eval "\$(register-python-argcomplete airflow)"

Creating a Connection

For information on creating connections using the CLI, see Creating a Connection from the CLI

Exporting DAG structure as an image

Airflow lets you print or save your DAG structure as an image. This is useful for documenting or sharing your DAG structure. You'll need to have Graphviz installed.

For example, to print the <code>example_complex</code> DAG to the terminal:

airflow dags show example_complex

This will print the rendered DAG structure (similar to Graph View) to the screen in DOT format.

Multiple file formats are supported. To use them, add the argument --save [filename].[format].

To save the example_complex DAG as a PNG file:

airflow dags show example_complex --save example_complex.png

This will save the following image as a file:



Example DAG representation

The following file formats are supported:

- bmp
- canon, dot, gv, xdot, xdot1.2, xdot1.4
- cgimage
- cman
- ene
- ovr
- fig
- gd, gd2
- gif
- gtk
- ico
- imap, cmapx
- imap_np , cmapx_np
- ismap
- jp2
- jpg, jpeg, jpe
- json, json0, dot_json, xdot_json
- pct, pict
- pdf
- pic
- plain, plain-ext
- png
- pov
- ps
- ps2
- psd
- sgisvg, svgz
- tga
- tif, tiff
- tk
- vml, vmlz
- vrml
- wbmp
- webp
- xlibx11

By default, Airflow looks for DAGs in the directory specified by the dags_folder option in the [core] section of the airflow.cfg file. You can select a new directory with the --subdir argument.

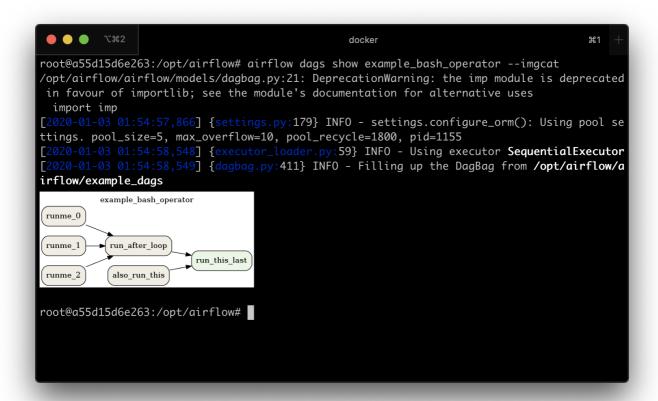
Display DAGs structure

Sometimes you will work on DAGs that contain complex dependencies. It is helpful then to preview the DAG to see if it is correct.

If you have macOS, you can use iTerm2 together with the imgcat script to display the DAG structure in the console. You also need to have Graphviz installed.

Other terminals do not support the display of high-quality graphics. You can convert the image to a text form, but its resolution will prevent you from reading it.

To do this, you should use the --imgcat switch in the airflow dags show command. For example, if you want to display example_bash_operator DAG then you can use the following command:



Preview of DAG in iTerm2

Formatting commands output

Some Airflow commands like airflow dags list or airflow tasks states-for-dag-run support --output flag which allow users to change the formatting of command's output. Possible options:

- table renders the information as a plain text table
- json renders the information in form of json string
- yaml render the information in form of valid yaml

Both json and yaml formats make it easier to manipulate the data using command line tools like jq or yq. For example:

```
airflow tasks states-for-dag-run example_complex 2020-11-13T00:00:00+00:00 --output json | jq ".[] | {sd: .start_date, ed: .end_date}"
    "sd": "2020-11-29T14:53:46.811030+00:00",
    "ed": "2020-11-29T14:53:46.974545+00:00"
    "sd": "2020-11-29T14:53:56.926441+00:00",
    "ed": "2020-11-29T14:53:57.118781+00:00"
   "sd": "2020-11-29T14:53:56.915802+00:00",
   "ed": "2020-11-29T14:53:57.125230+00:00"
   "sd": "2020-11-29T14:53:56.922131+00:00",
    "ed": "2020-11-29T14:53:57.129091+00:00"
    "sd": "2020-11-29T14:53:56.931243+00:00",
    "ed": "2020-11-29T14:53:57.126306+00:00"
<
```

Previous

Next

Was this entry helpful?



Want to be a part of Apache Airflow? Join community

License Donate Thanks

© The Apache Software Foundation 2019

Apache Airflow, Apache, Airflow, the Airflow logo, and the Apache feather logo are either registered trademarks or trademarks of The Apache Software Foundation. All other products or