rorocloud Documentation

Release 1.1.3

rorodata

May 09, 2017

Contents

rorocloud is a service to run user's code in pre-configured compute environments in the cloud.

The primary interface to interact with the rorocloud service is via a command-line tool called `rorocloud`.

Installation

The rorocloud client can be installed using `pip`.

```
$ pip install -U rorocloud
```

You can check the version of the rorocloud client you can using:

```
$ rorocloud version
rorocloud, version 0.1.3
```

Getting Started

Login

Login to rorocloud service to get started.

```
$ rorocloud login
email: anand@rorodata.com
password: ********
Login successful.
```

After login, your credentials will be saved permanently on your local computer. You can use the *rorocloud whoami* command to find the email address of logged in user.

```
$ rorocloud whoami
anand@rorodata.com
```

You need to have a valid login to use this service. Please write to us at `rorodata.team@gmail.com` if you don't already have one.

Running Hello world

Once you are logged in, you can run commands in the cloud. Let us try with a simple one.

```
$ rorocloud run echo hello world
created new job ff4a0620
```

The rorocloud client submitted a new job to run the command `echo hello world` and the job id is `ff4a0620`. Let us look at the logs of the job.

```
$ rorocloud logs ff4a0620
starting the job
executing command
```

```
hello world
job finished with exit status 0
```

We can also run a command in foregrond by passing `--foreground` option.

```
$ rorocloud run --foreground echo helloworld
created new job cd5c7c7c
starting the job
executing command
helloworld
job finished with exit status 0
```

Running Jupyter Notebook

Jupyter notebooks are natively supported in rorodata. To start a jupyter notebook, run:

```
$ rorocloud run:notebook
created new job 60984179
starting the job
executing command
Jupyter notebook is available at:
http://60984179.apps.rorocloud.io/?token=rorocloud

The jupyter notebook server can be stopped using:
    rorocloud stop 60984179
```

That would start a jupyter notebook and the URL to access the notebook will be printed. The notebook server is protected using a token.

The jupyter notebook server will continue to run even after closing the browser window and it must be stoped using `rorocloud stop` command.

The notebooks will be stored in `/data/notebooks` directory.

Copying files

The *put* command copies a local file into the cloud.

For example, to copy a file *hello.py* from current directory to */data*:

```
$ rorocloud put hello.py /data/hello.py
```

Status of Jobs

The status of currently running jobs be seen using:

```
$ rorocloud status
JOBID     STATUS    WHEN           TIME     CMD
--------  --------  -------------  -------  ------------------------------
60984179  running   14 minutes ago  0:14:18  /opt/rorodata/jupyter-notebook
74ee24a1  running   24 minutes ago  0:24:47  python train.py
```