
awsrightsizer Documentation

Release develop

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This tool is designed and written in Python 3.6.5 to help you determine the right AWS EC2/RDS instance type for your servers based on historical usage.

CHAPTER 1

Usage:

```
usage: rightsizer.py [-h] [-p PROFILE] [-k ACCESSKEY] [-s SECRETKEY]
                    [-r REGION] [-t THRESHOLD THRESHOLD] [-q QUERY]
                    [-o OUTPUT] [-e] [-d]

optional arguments:
  -h, --help            show this help message and exit
  -p PROFILE, --profile PROFILE
                        AWS Credentials Profile
  -k ACCESSKEY, --access-key ACCESSKEY
                        AWS Access Key Id
  -s SECRETKEY, --secret-key SECRETKEY
                        AWS Secret Access Key
  -r REGION, --region REGION
                        AWS Region
  -t THRESHOLD THRESHOLD, --threshold THRESHOLD THRESHOLD
                        The Cloudwatch [average, max] CPU usage threshold
  -q QUERY, --query-config QUERY
                        The amount of [days, period] to query Cloudwatch for
  -o OUTPUT, --output OUTPUT
                        The name/location of the csv file to output
  -e, --ec2-only        Run this tool against EC2 Instances only
  -d, --rds-only        Run this tool against RDS Instances only
```


CHAPTER 2

Installation:

A pip package is available for this tool. This is the recommended way to install and run the tool. Download and run the tool using the steps below:

1. `python3 -m pip install awsrightsizer --user`
2. `rightsizer [OPTIONS]`

CHAPTER 3

Upgrading

Upgrading is easy as well with pip, simply issue the following commands:

1. `python3 -m pip install awsrightsizer --upgrade --user`
2. `rightsizer [OPTIONS]`

CHAPTER 4

Source Installation:

This tool is best run in a virtual environment. You may need to install a virtual environment tool such as `python3-venv` or `python3-virtualenv` via your package manager and/or install one via `pip` by running `pip install virtualenv --user`.

1. `git clone https://github.com/gregoryjordanm/awsrightsizer.git`
2. `cd ./awsrightsizer`
3. `python3 -m venv venv` or `virtualenv -p python3 venv`
4. `. ./venv/bin/activate`
5. `pip install -r requirements`
6. `python rightsizer.py [OPTIONS]`

CHAPTER 5

Running Example:

Lets assume for a second that you have already installed the AWS CLI tools for your distribution...

Lets also assume that you have already run the `aws configure` command and have a profile named “dev” on your system that you have already tested and is functioning :)

To run this tool with your working profile, simply do the following:

```
rightsizer -p dev
```

The tool will output a “report_date.csv” file in the directory you ran it in.

Lets now assume that you hate my report name, simply run:

```
rightsizer -p dev -o your_awesome_new_csv.csv
```

The tool will now use your_awesome_new_csv.csv is the output file.

If you don’t have an AWS profile set up for some reason (it really does make life easier), then you can use the -k, -s, and -r flags to provide the necessary info.

```
rightsizer -k XXXXXXXXXXXX -s XXXXXXXXXXXXXXXXXXXXXXXXXXXX -r us-east-1
```

If you don’t want to have the tool pull 30 days worth of data, or if you don’t want the data periods to be 30 minutes, use the -q flag like so:

```
rightsizer -p dev -q 15,900
```

This will tell the tool to query 15 days at 15 minute intervals.

To run against just your EC2 assets, just issue the -e flag.

To run against just your RDS assets, just issue the -d flag.

If you are running this via the source, you will need to add `python rightsizer.py` to your command instead of just `rightsizer`.

Let me know if you find bugs :)

5.1 Attribution:

This tools is loosely based on the [awsstats](#) tool by [FittedCloud](#).