

PAAExport

PAAExport is a command-line utility that extracts data from the `appfoundry.db` SQLite data base produced by `PAA`, Pivotal Application Analyzer. The files extracted are formatted to serve as a source for the `Zeppelin-based` notebook designed to allow exploration of `PAA` results without the need for the `forge` executable, which cannot be left on customer's computers.

Usage

Installing `zeppelin`

Navigate your browser to <https://zeppelin.apache.org/download.html> and select the first download package.

Download Apache Zeppelin

The latest release of Apache Zeppelin is 0.8.2.

- 0.8.2 released on Sep 29, 2019 ([release notes](#)) ([git tag](#))
 - Binary package with all interpreters ([install guide](#)):
`zeppelin-0.8.2-bin-all.tgz` (952 MB, [pgp](#), [md5](#), [sha](#))
 - Binary package with Spark interpreter and interpreter net-install script ([interpreter installation guide](#)):
`zeppelin-0.8.2-bin-netinst.tgz` (318 MB, [pgp](#), [md5](#), [sha](#))
 - Source: `zeppelin-0.8.2.tgz` (62 MB, [pgp](#), [md5](#), [sha](#))

Decompress the file and move to a directory on your home directory and rename the resulting directory to `~/zeppelin`.

You are now ready to copy some files from the repo or zip file into your newly install zeppelin directory.

First, you'll need some data to test that your notebook is working properly.

In your `~/zeppelin` directory `mkdir data`, then copy the files from `paa-export/data` into this data directory.

Next we need to copy the configuration files from `paa-export/zeppelin/conf` to `~/zeppelin/conf`

Now move into that directory and run the script as indicated below

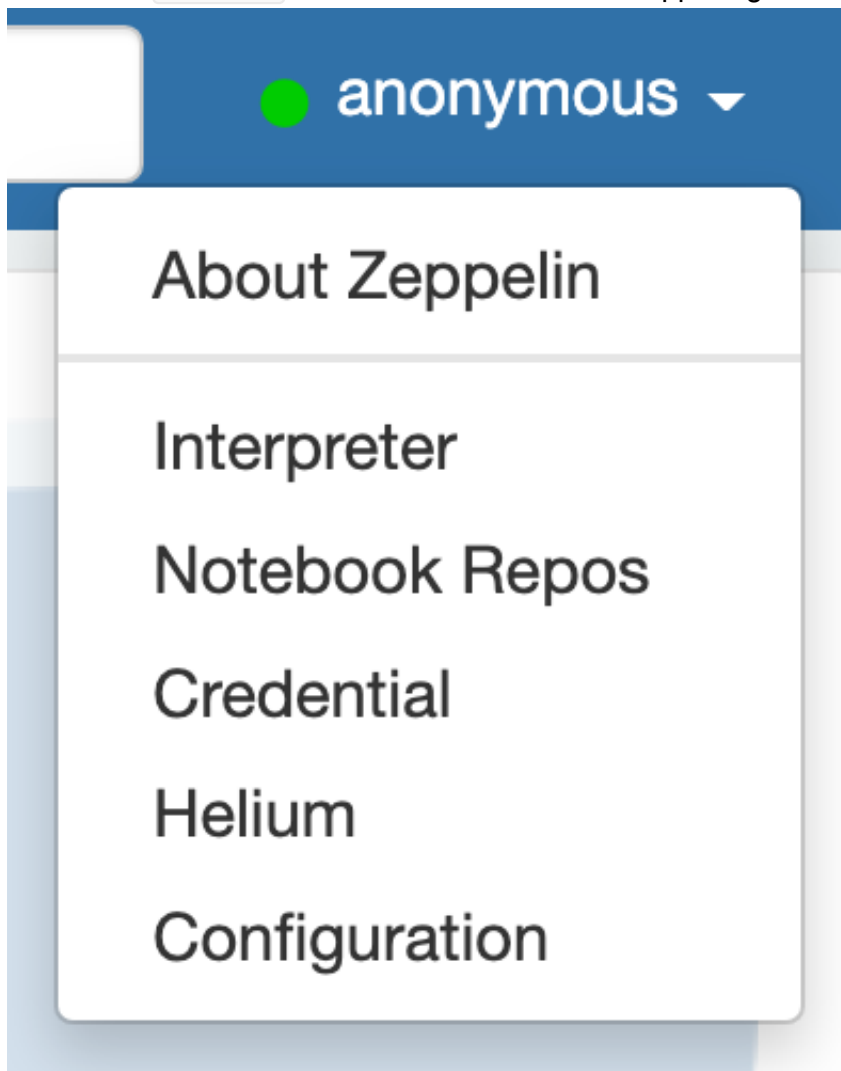
```
cd ~/zeppelin
bin/zeppelin-daemon.sh start
Log dir doesn't exist, create /Users/swoods/zeppelin/logs
Pid dir doesn't exist, create /Users/swoods/zeppelin/run
Zeppelin start
```

Those two warnings are normal the first time you start `zeppelin` .

After starting, open browser to `localhost:8080` . You should see the `Zeppelin` welcome screen. Now we have to enable several visualizations.


Setting up visualizations

- Select the `Helium` item from the menu in the upper right corner.




- Enable all the `ultimate` on the first tab. visualizations by clicking `Enable` . Also, enable `zeppelin-number` . Feel free to enable others if you like.

 **ultimate-heatmap-chart** VISUALIZATION
ultimate-heatmap-chart@0.0.2
The Ultimate Heatmap Chart for Apache Zeppelin using [highcharts](#)

 **ultimate-scatter-chart** VISUALIZATION
ultimate-scatter-chart@0.0.2
The Ultimate Scatter Chart for Apache Zeppelin using [highcharts](#)

 **ultimate-range-chart** VISUALIZATION
ultimate-range-chart@0.0.2
The Ultimate Range Chart for Apache Zeppelin using [highcharts](#)

 **ultimate-column-chart** VISUALIZATION
ultimate-column-chart@0.0.2
The Ultimate Column Chart for Apache Zeppelin using [highcharts](#)

 **ultimate-pie-chart** VISUALIZATION
ultimate-pie-chart@0.0.2
The Ultimate Pie Chart for Apache Zeppelin using [highcharts](#)



- After enabling, you'll need to `restart` to have them become available

```
bin/zeppelin-daemon.sh restart
```

Other useful commands

Commands to `stop/status` :

```
bin/zeppelin-daemon.sh stop
bin/zeppelin-daemon.sh status
```

Useful links: <https://zeppelin.apache.org/docs/0.8.2/quickstart/install.html>

Important: Always start `zeppelin` from the `zeppelin` directory. It affects the home directory within `zeppelin` .

The notebook expects home to be the `zeppelin` directory.

Using `PAAExport`

The most simple approach is to copy `PAAExport` into the same directory as the `forge` executable. The `appfoundry.db` SQLite data base is normally also in this directory. `PAAExport` expects two command line arguments:

- Path to appfoundry.db file
- Run number to extract

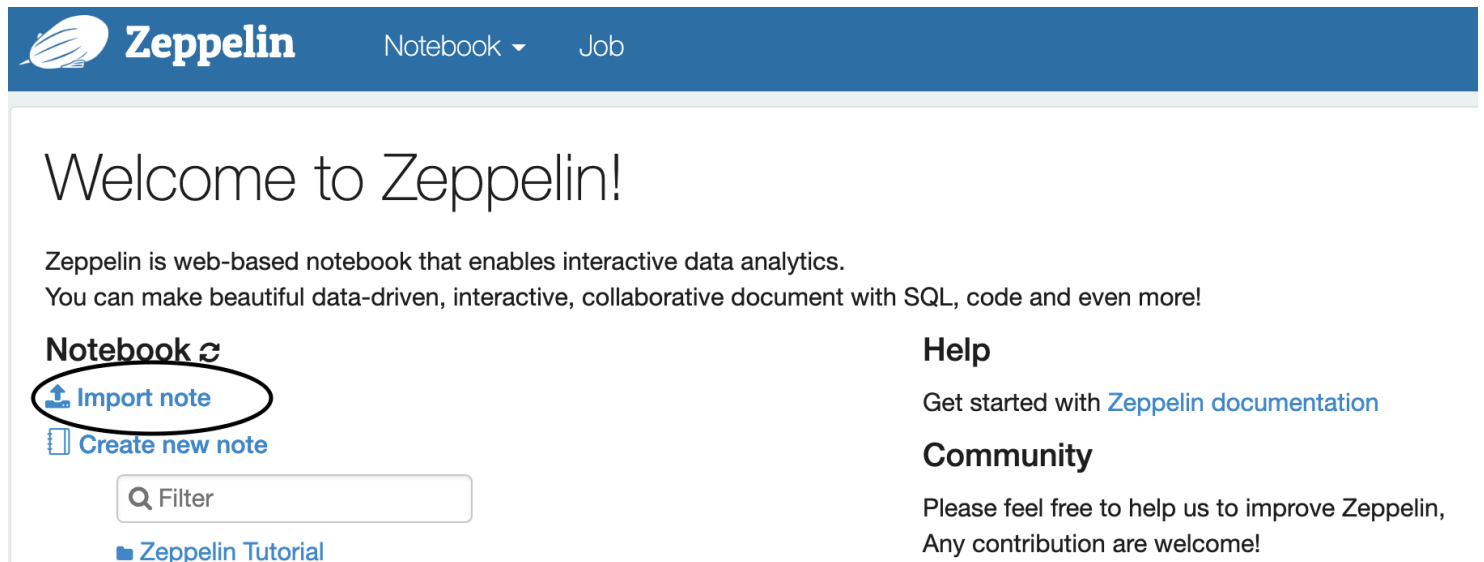
```
./PAAExport appfoundry.db 1
```

The csv files produced are as follows:

```
code-metrics.csv
portfolio-summary.csv
portfolio-detail.csv
score-datail-by-line.csv
score-datail-by-file.csv
top-APIs.csv
crosstab.csv
```

Copy these files to the `~/zeppelin/data` directory to use for the `zeppelin` report.

- Also, you'll need to import the notebook(s) you find in the repo. Within the `zeppelin` application, the `import note` menu item is on the welcome page, the first page you land on to login. You can also get to that page by clicking the `zeppelin` icon in upper left of any page. Click `Import note` to import the notebook. Navigate to where you have the notebooks from this web site.



Zeppelin Notebook ▾ Job

Welcome to Zeppelin!

Zeppelin is web-based notebook that enables interactive data analytics.
You can make beautiful data-driven, interactive, collaborative document with SQL, code and even more!

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 PAA Standard Template

- Run all paragraphs in the notebook

PAA Standard Template



- Select your operating mode:

Default This is like a developer mode, you see everything, code included.

Simple This is for a non-technical, non-coding use.

Report Final product, all controls and code hidden.



default ▼

default

simple

report

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