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FUTU-PY-CONFFI DEVOPS GUIDE

1. INSTALLATION AND DEPLOYMENT

1.1. Prerequisites

The must have binaries are:
bash, perl, zip, python3

The nice to have are:
tmux, vim ,ctags

The examples are for Ubuntu - use you OS package manager …

```
apt-get autoclean
apt-get install --only-upgrade bash
sudo apt-get install -y perl

# optionally
sudo apt-get install -y excuberant-ctags
sudo apt-get install -y 7z


apt-get upgrade
```

1.1.1. Install python

Install the python3 binary as follows:

```
sudo apt-get install python3

# and verify
python3 -V
Python 3.5.2
```

1.1.2. Install pip

Install the python package manager:
The example is for Ubuntu - use the package manager of your OS by choice.

```
sudo apt-get install python-pip
pip install --upgrade pip
```

1.1.3. Install the Google oauth2client

Install the Google oauth2client (https://github.com/google/oauth2client) as follows:

```
pip install --upgrade oauth2client
```

1.1.4. Install the gspread

The Google Spreadsheets Python API is utilized and it must be imported via the pip manager.
Use the gspread module
https://github.com/burnash/gspread

```
sudo pip install gspread

# output:
  Downloading requests-2.12.4-py2.py3-none-any.whl (576kB)
    100% |████████████████████████████████| 583kB 1.7MB/s
Installing collected packages: requests, gspread
Successfully installed gspread-0.6.2 requests-2.12.4
```

1.2. Fetch the source

Fetch the source from git hub as follows:

```
# create your product dir:
mkdir -p /opt/futu/futu-pyconffi
cd /opt/futu/futu-pyconffi/
git clone https://github.com/futurice/futu-py-conffi

mv -v /opt/futu/futu-py-conffi /opt/futu/futu-py-conffi.0.1.0.dev.$USER
```

1.3. Create you local conf file

The default conf file provides only limited functionality (this is by design) , thus copy and configure the configuration file for your host

```
# go to the product version dir
cd /opt/futu/futu-py-conffi.0.1.0.dev.$USER

mv -v sfw/bash/futu-pyconffi/futu-pyconffi.set-your-host.conf \ sfw/bash/futu-pyconffi/futu-pyconffi.`hostname -s`.conf
```

1.4. run the tests

To run all the tests issue the following call

```
# go to the product version dir
```

```
cd /opt/futu/futu-py-conffi.0.1.0.dev.$USER

bash sfw/bash/futu-py-conffi/test-futu-py-conffi.sh
```

2. CONFIGURATION

3. INTERNALS

3.1. Configure logging

To configure the logging edit the logging.conf file by consulting the following documentation:
https://docs.python.org/3.5/howto/logging.html#logging-basic-tutorial

3.2. Python objects listing

The following section provides short explanation on the python objects

3.3. Configure the credentials for the oAuth2Client

Using the :
http://gspread.readthedocs.io/en/latest/oauth2.html
https://github.com/burnash/gspread

3.4. sfw/python/futu_py_conffi.py

This is the main entry of the python code …
Kicks up the confgurator and the GoogleSheetToYAML controller obj

3.5. sfw/python/ctrl/GoogleSheetToYAML.py

Implements the control flow for reading the Google SpreadSheet data , data transfromations and writing to yaml configuration files

3.6. sfw/python/utils/Initializer.py

A "self-reflecting" module to fetch generically from the project dirs , configuration files etc.

3.7. sfw/python/utils/Configurator.py

Responsible for the gloal configuration of the tool.