Installing PAN-OS-PHP

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1. Mac OS X

You need to run PHP 5.4 or later (tested with 7.4 at the time of this writing). PHP 5.4 is available natively on Mac OS X 10.9.x.

The following command will help you to determine your PHP version: "php -v"

[] swaschkut\$ php -v

PHP 7.1.23 (cli) (built: Feb 22 2019 22:19:32) (NTS)

Copyright (c) 1997-2018 The PHP Group

Zend Engine v3.1.0, Copyright (c) 1998-2018 Zend Technologies

1.1. Check your Palo Alto Networks Enterprise GitHub account

Using github's utilities to maintain a fresh copy of Expedition-Converter by looking for the latest sources for you.

1.2. Install and setup GitHub Desktop for Mac

Download the client from https://desktop.github.com/ and install it. Start the client and it will first request for your Github Enterprise login.

1.3. Bookmark/Star PAN-OS-PHP project

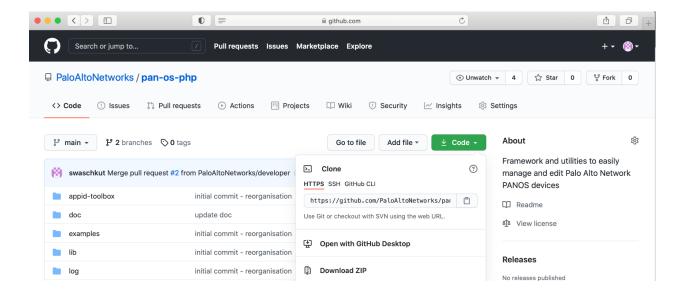
In order to know when a new version is out and also look for the project easier in GitHub client, it's a good idea to Star/bookmark the project and eventually.

For this, go to the project page

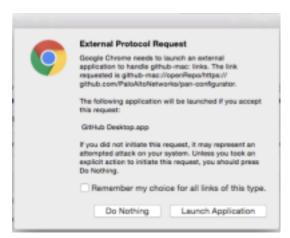
(https://github.com/PaloAltoNetworks/pan-os-php) and click on the "Star" button (see screenshot) and optionally on the "Watch" button to Watch it.

1.4. Clone Expedition-Converter repository

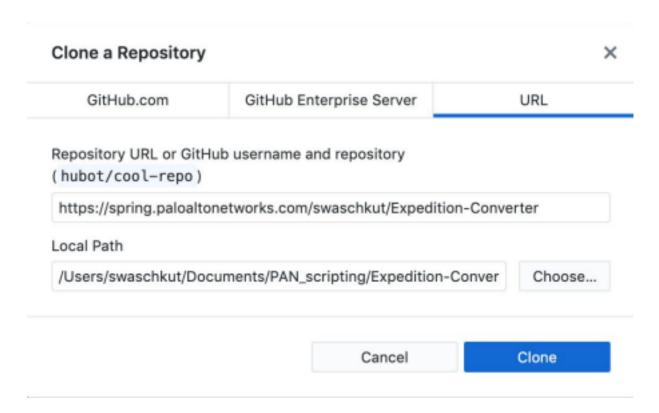
Still on PAN-OS-PHP Github homepage, click the Clone button like below:



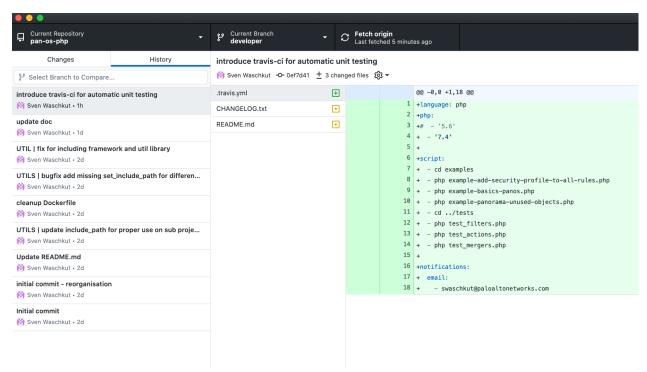
Chrome will warn you that it will open external program GitHub Desktop, click "Launch Application":



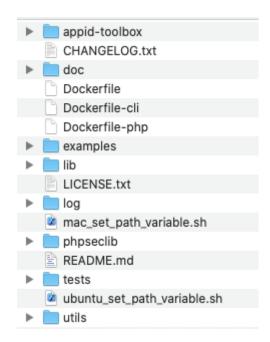
Github will then ask you in which location you want to install PAN-OS-PHP. Suggestion: install it in your Documents/pstools/pan-os-php (like in screenshot):



Upon successful download of latest sources, GitHub Desktop should be showing something similar to this screenshot:



If you browse to the folder where you install PAN-OS-PHP, you should see its file structure:



1.5. Add pan-os-php install directory to PHP include_dir

The next two steps; 1.5 and 1.6 are now automated.

Please execute the bash script:

```
sh mac_set_path_variable.sh
```

sudo cp –f /etc/php.ini.default /etc/php.ini

sudo chmod u+w /etc/php.ini

echo "include_path = \".:/php/includes:/Users/\$USER/Documents/pstools/pan-os-php\"" | sudo tee-a /etc/php.ini

PHP stores its configurations in "/etc/php.ini". If this file does not exist yet on your system, you need to copy the default template, you can do this from CLI. You can also use the following CLI to overwrite your existing PHP configuration:

If you want to do this manually, edit /etc/php.ini with your favorite editor (be careful of the root privilege required) to edit property "include_path" to add the path to pan-configurator.

You can test that you installed everything properly by testing the following command line:

php -r "require('lib/pan_php_framework.php');print \"OK INSTALL SUCCESSFUL\n\";" *OK INSTALL SUCCESSFUL*

1.6. Load expedition-converter alias for your CLI

If you already executed the bash script of part 1.5, without any issue, skip this part. It will be very convenient to load the PAN-OS-PHP toolset from any location on your folder. For this you can load an alias file every time you start a new CLI console. Use the following command-line to add it in your ~/.profile:

echo "source \"/Users/\$USER/Documents/pstools/pan-os-php/utils/alias.sh\"" >> ~/.profile

Now open a new CLI console (to reload all your environment) and try to run command "pa_rule-edit":



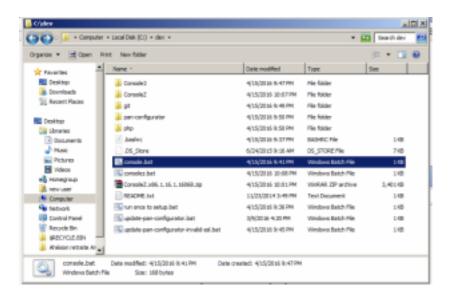
2. Windows

Windows users can go through the same steps as Mac OS X users or use a pre-packaged all-in-one zip file for an easy and quick setup.

2.1. Download and unzip package

Download URL is TBD.

After unzipping (location does not matter, use anything convenient do you), you will have a folder looking like this:



2.2. Execute setup script

Run script "run once to setup.bat".

```
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```

2.3. Run PAN-OS-PHP source code update script

Run script "update-pan-os-php.bat"

```
C:\dev\pan-configurator\yit clean -f

C:\dev\pan-configurator\yit pull origin master
remote: Counting objects: 35, done,
remote: Congressing objects: 180x (35/35), done,
remote: Iotal 35 (delta 25), reused 8 (delta 8), pack-reused 8

Unpacking objects: 180x (35/35), done,
Pron https://github.com/PaleAltoNetworks-UD/pan-configurator
* branch anster -> FITCH JEED

249a248..sf383b6 narter -> origin/master

Updating 249a248..sf383b6

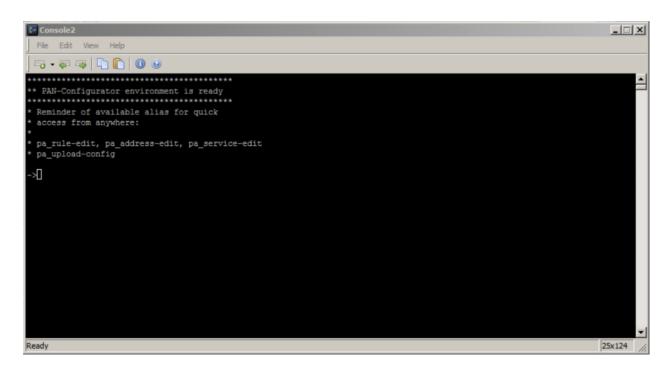
Part-forward

CMMCELOG, ext : 2
doc/class-AddressConnen.html : 1
doc/class-AddressConnen.html : 1
doc/class-AddressConnen.html : 1
doc/class-AggregateEthermetIfStore.btml : 1
doc/class-AggregateEthermetIfStore.btml : 1
doc/class-AggregateEthermetIfstore.btml : 1
doc/class-EthernetInterface.html : 1
doc/class-EthernetInterface.html : 1
doc/class-FixedInnel.html : 66
doc/class-FixedInnel.con.html : 66
doc/class-FixedInnel.con.html : 38
```

2.4. Test it

Windows zip package comes with a utility called Console2 which offers a good alternative to MS- DOS shell, plus it has all environment variables preset.

Run "console.bat" to start it:



Run the following command "pa_rule-edit" and check that it actually works:

3. More documentation

- PAN-OS-PHP GitHub homepage: https://github.com/PaloAltoNetworks/pan-os-php
- PAN Live Community page for PAN-OS-PHP: https://live.paloaltonetworks.com/t5/API-Articles/PAN-Configurator-scripting-library-and-utilities/ta-p/52163
- PAN Live Community helper page for "rules-edit":
 https://live.paloaltonetworks.com/t5/API-Articles/rules-edit-php-to-manage-edit-export-rules-from-CLI/ta-p/53321