RATOM Documentation

Release 2.2.2

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CHAPTER

ONE

OVERVIEW

1.1 Description

RATOM stands for "Rage Against The Outdated Machine".

Its purpose is to simply update all the things that need updating.

The primary use for RATOM is under current Python 2.x on a supported operating system that uses one or more of the supported software.

1.2 Features

- Supports macOS, FreeBSD (freebsd-update, portsnap, pkg), Debian and derivatives (apt-get), Red Hat and derivatives (yum), ClamAV/freshclam, Homebrew, Cask, Perlbrew, CPAN Minus (cpanm), pyenv, pip, rbenv, gem, npm, Metasploit Framework, Git repositories, and Microsoft AutoUpdate via a plugin architecture
- Markdown-formatted output with all update and informational commands shown with their output and in pretty terminal colors via the blessings package; also allows subsequent processing by redirecting or piping
- Dry run mode (-n) processes configuration file and command line arguments, performs checks and intermediate processing, prints commands to show what will run given configuration and system settings, but doesn't actually update anything
- Configuration via ~/.ratom/config.json or an argument to -c option; allows switching the ordering of plugins (not recommended), explicit enabling or disabling of plugins, and specifying a different path for the log file
- Logs intermediate processing commands and other informational and error messages to the configured log location (~/.ratom/ratom.log by default) or an argument to -l option
- Shows full configuration details if --show-config option is used; be sure to combine with -n if you don't want to update anything
- Each plugin provides a check function to determine whether to run and a main function that performs the update
- Full documentation in HTML (online, gzipped tar) and PDF (view, download) via Sphinx

1.3 Design

- · Show all configuration, commands, and output
- Use a modular plugin architecture

- Generating a report should be easy
- · Run sequentially to avoid issues
- Halt when a command fails

1.4 Installation

```
pip install ratom
```

Can also install from either the binary distribution (or "wheel") or source distribution files:

```
pip install ratom-2.2.2-py2-none-any.whl
pip install ratom-2.2.2.zip
```

1.5 Usage

```
usage: ratom [-h] [-n] [-c PATH] [-l PATH] [--show-config]
             [plugin [plugin ...]]
optional arguments:
 -h, --help
             show this help message and exit
ratom options:
                Dry run; don't actually update anything
 -n
 -c PATH
                Use alternate configuration file; default:
                ~/.ratom/config.json
 -1 PATH
                Log to PATH; default: ~/.ratom/ratom.log
  --show-config Show full configuration details
 plugin
                 Specific plugin(s) to run in the specified order; default:
                 "macos freebsd aptget yum clamav geoip homebrew perlbrew
                 cpanm pyenv conda pip rbenv gem npm msf git macos_microsoft";
                 ignored if running a plugin directly
```

1.6 Examples

RATOM can be used in a few ways...

- 1. Install with pip and run via the installed ratom shim
- 2. Clone the Git repository or unzip the source distribution and run either ratom/all.py or one of the plugins directly
- 3. Do #2 but also add symlinks to somewhere in your PATH:

```
cd ~/bin
ln -s path/to/ratom/ratom/all.py ratom
```

4. Use the Python REPL (or programtically from other Python code). Import ratom.all or a specific plugin, then call a main function and pass any arguments in command-line fashion via the argv argument or a configuration dictionary via the cfg argument. See also the *API Reference*.

```
$ python
>>> import ratom.clamav
>>> ratom.clamav.check()
True
>>> ratom.clamav.main(['-n'])
...
>>> ratom.clamav.main()
...
>>> import ratom.all
>>> ratom.all.main()
...
```

1.7 Versions

1.0.5 2016-05-26 Pipe stderr in runp, aptget and yum plugins 1.0.6 2016-05-26 Add aptget and yum plugins to documentation 1.0.7 2016-05-26 Added descriptions of aptget and yum plugins section of documentation 1.1.0 2016-05-26 Changed UnknownModule exception to UnknownPlugin 2.0.0 2016-06-05 Replaced pyenv global commands and fixed issue with vim in homebrew plugin; using os.path.realpath inst 2.0.1 2016-06-06 Fixes for freebsd plugin 2.0.2 2016-07-18 Fix cask plugin failing when cask list gives name along with "(!)"; fix clamav plugin failing due to exiting 2.0.3 2016-08-02 Added ASCII art banner; improved logging in cask plugin 2.0.4 2016-08-03 Renamed macosx to macos & macosx_microsoft to macos_microsoft; increased verbosity of cask plugin; a 2.0.5 2016-08-05 Fix join error in cask plugin 2.0.6 2016-08-05 Added Contact section with URLs to header 2.0.7 2016-09-22 Use -verbose instead of -v with macos plugin softwareupdate 2.0.8 2016-11-30 Added -format=legacy to pip list command in pip plugin; disable uploading documentation to pythonhoste 2.0.9 2016-12-08 Removed cask plugin; remove the -all option from the brew upgrade command; fix the npm plugin; minor 2.0.10 2017-12-17 Fix the npm plugin to avoid "broken" outdated command; fix pyenv plugin to properly show the latest stabl 2.0.11 2017-12-17 Fix the npm plugin to properly show the latest stable 2.x version of Ruby 2.1.0 2017-12-29 Add conda plugin	Version	Date	Comments
1.0.2 2016-05-25 More work on release script and documentation	1.0.0	2016-05-25	Initial release
1.0.3 2016-05-25 Improved release automation 1.0.4 2016-05-26 Documentation: moved content from readme, fixed typo, renamed apple plugin to macosx; Code: run brew 1.0.5 2016-05-26 Pipe stderr in runp, aptget and yum plugins 1.0.6 2016-05-26 Add aptget and yum plugins to documentation 1.0.7 2016-05-26 Added descriptions of aptget and yum plugins to Plugins section of documentation 1.1.0 2016-05-26 Changed UnknownModule exception to UnknownPlugin 2.0.0 2016-06-05 Replaced pyenv global commands and fixed issue with vim in homebrew plugin; using os.path.realpath inst 2.0.1 2016-06-06 Fixes for freebsd plugin 2.0.2 2016-07-18 Fix cask plugin failing when cask list gives name along with "(!)"; fix clamav plugin failing due to exiting 2.0.3 2016-08-02 Added ASCII art banner; improved logging in cask plugin 2.0.4 2016-08-03 Renamed macosx to macos & macosx_microsoft to macos_microsoft; increased verbosity of cask plugin; a 2.0.5 2016-08-05 Fix join error in cask plugin 2.0.6 2016-08-05 Fix join error in cask plugin 2.0.8 2016-09-22 Use -verbose instead of -v with macos plugin softwareupdate 2.0.9 2016-12-08 Removed cask plugin; remove the -all option from the brew upgrade command; fix the npm plugin; minor 2.0.10 2017-12-17 Fix the npm plugin to avoid "broken" outdated command; fix pyenv plugin to properly show the latest stable 2.0.11 2017-12-17 Fix the rbenv plugin to avoid "broken" outdated command; fix pyenv plugin to properly show the latest stable 2.0.12 2017-12-18 Fix the rbenv plugin to properly show the latest stable 2.x version of Ruby 2.1.1 2017-12-30 Fix error "Upload failed (400): Only one sdist may be uploaded per release" in favor of zip versus tar.gz 2.1.3 2017-12-30 Fix conda and pip plugins output 2.1.4 2017-12-30 Fix conda and pip plugins output 2.1.5 Add conda self updating and don't confirm 2.2.1 2018-01-05 Add geoip plugin; fix conda in doc 2.1.2 2018-01-05 Fix pyenv plugin to show latest anaconda versions	1.0.1		Fixed release script, rearranged documentation
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	2.2.1	2018-01-05	Activate geoip plugin
2.2.3 2018-01-05 Fix cpanm plugin output; update usage in doc	2.2.2	2018-01-05	
	2.2.3	2018-01-05	Fix cpanm plugin output; update usage in doc

1.7. Versions 3

1.8 Issues

Please report issues via Github Issues.

Better yet, fork the Github repository, fix the issue, and send a PR (pull request)!

1.9 Contact

- Github
- PyPI
- Documentation

1.10 To do

- update Perl modules via CPANM for all perlbrew perls?
- update Python modules via pip for all pyenv pythons?
- update Ruby gems for all rbenv rubys?

CHAPTER

TWO

PLUGINS

The subsections below list details about each individual plugin.

In general, it is the user's responsibility to handle various side effects of individual plugins, for example some plugins may require reprocessing terminal startup scripts (.bashrc, etc) or even rebooting. Reprocessing startup scripts can be achieved by restarting the terminal session either by issuing exit or Ctrl+D and reopening a terminal or logging in again, or perhaps running exec \$SHELL.

Also note that RATOM runs as the user that runs it, upon the assumption that the user has the appropriate permissions, etc. Of course, if a plugin passes its check function, but lacks permissions to perform the update then the command should fail, but this depends on the individual update utility. If it fails (exits with a non-zero value), RATOM will halt. If this occurs, you might have an issue of this kind, and your courses of action include fixing permissions of the item and its files for your user, disabling the plugin in the configuration file, or modifying the plugin's check or main functions to work correctly. Some ideas for the last fix might be to check if the user has proper permissions, has a particular UID/EUID/GID/EGID, or to run the command(s) via su or sudo.

2.1 all

Attempts to run all plugins listed as command line arguments, in the plugins list in the configuration file, or in the plugins list in the common.defaults dictionary (common.defaults['plugins']). Regardless where the list of plugins is found, the plugins are run in the order given. The default order is designed to update operating systems first, then any other security-related items, followed by development tools and personal tools/repositories, and finally any GUI-based update mechanisms. Of course, each plugin must also pass its respective check function in order to actually perform the update. This process prevents blindly attempting to run plugins on systems that either don't have the software they update or more importantly, when the user doesn't want RATOM to update them.

2.2 aptget

Updates Debian or Debian-based system (Ubuntu, Kali...) via apt-get update, apt-get dist-upgrade -y, then removes unnecessary packages via apt-get autoremove -y.

2.3 clamav

Manually updates Clam AntiVirus signatures via freshclam. This is in contrast to using the freshclamd daemon which can likely do a better job of keeping the signatures up-to-date. However, running freshclam manually confirms that the signatures are up-to-date whether the system uses the daemon or not.

2.4 conda

Updates conda and Anaconda packages via conda update -yn base conda and conda update -y --all.

2.5 cpanm

Uses cpan-outdated, which is installable via cpanm App::cpanoutdated, to check for outdated Perl/CPAN modules (cpan-outdated -p), then updates each via cpanm. This plugin runs against the "current" Perl, without regard for or knowledge of things like Perlbrew.

2.6 freebsd

Actually attempts to update several individual FreeBSD-specific items as a single plugin. Supported items are freebsd-update, portsnap, and pkg. This plugin only updates the currently-tracked branch of FreeBSD; it does not upgrade your system to the current release branch; i.e. if your system has 10.2-RELEASE and 10.3-RELEASE is available, it will not upgrade to 10.3-RELEASE for you, but it will tell you.

2.7 gem

Runs gem update to update globally-installed gems for the "current" selected Ruby, without regard for or knowledge of things like rbenv.

2.8 geoip

Runs geoipupdate -v to update the GeoIP database according to the configuration.

2.9 git

6

Performs a git pull for each repository or symlink to a repository in ~/.ratom/git/ after first showing the remote upstream repository via git remote -v. The check function fails if either the ~/.ratom/git directory does not exist or it does not contain any symlinks or directories. Each repository path is *expanded* via os.path. realpath (doc) to operate directly against the canonical path.

2.10 homebrew

Updates Homebrew via brew update; brew upgrade --all, then performs clean up via brew cleanup.

It also attempts to avoid a specific issue discussed here encountered when upgrading Vim (and using pyenv) by temporarily restoring the "system" version of Python via the PYENV_VERSION environment variable before running the upgrade command. Note that this has initial success but should still be considered a work-in-progress.

2.11 macos

Updates macOS via the softwareupdate utility. An update may require reboot and the output will indicate this; the rest of the update process will continue and it is the user's responsibility to perform the reboot.

2.12 macos microsoft

Runs the GUI-based Microsoft AutoUpdate utility, which updates Microsoft software installed on a macOS system. Unfortunately, this appears to be the only way to confirm that the software is up-to-date, since searching for a command-line utility has so far been fruitless. This plugin blocks while the user clicks the "Check for Updates" button, installs any updates, then closes the GUI.

2.13 msf

Updates Metasploit Framework via msfupdate.

2.14 npm

Checks for updates, attempts to update, and confirms updates of global NPM (Node.js) modules.

2.15 perlbrew

Updates Perlbrew and shows the installed versions of Perl and available versions of Perl; does not install any version of Perl for you.

2.16 pip

Upgrades the pip package first, then attempts upgrading all other installed packages.

2.17 pyenv

Shows the installed versions of Python and the latest versions in the 2.7 and 3.5 branches; does not install any version of Python for you.

2.18 rbenv

Show the installed versions of Ruby and the latest version in the 2.3 branch; does not install any version of Ruby for you.

2.11. macos 7

2.19 yum

Updates Red Hat or a derivative (Fedora, CentOS...) via yum update -y.

8 Chapter 2. Plugins

CHAPTER

THREE

API REFERENCE

3.1 ratom.common

ratom.common.replace (replacements, s) make all replacements in a string

```
Common things shared across RATOM
exception ratom.common.CommandFailed
     command exited with non-zero return code
exception ratom.common.Error
     general error exception
exception ratom.common.IntermediateCommandFailed
     intermediate command exited with non-zero return code
exception ratom.common.UnknownPlugin
     encountered an unknown plugin
ratom.common.error(msg)
     print error message to log if we are logging
ratom.common.fetch(uri, params=None, soup=True)
     fetch data from a web URI via requests and return a BeautifulSoup object or the data if soup is False
ratom.common.has(*commands)
     test if command(s) are in PATH
ratom.common.header(r, c, cfg, show_config=False)
     print the header
        • r: running configuration dictionary
        • c: configuration file path
        • cfg: configuration dictionary from the configuration file
        • show_config: shows full configuration details if true
ratom.common.info(msg)
     print informational message to log if we are logging
ratom.common.init(argv=None, cfg=None)
     process the arguments and configuration file, set up logging, and print the header

    argv: passed to parse_args method of argparse. ArgumentParser instance; uses sys.argv

        • cfg: avoids rerunning if cfg is already defined
```

ratom.common.**run** (*c*, *prompt=*'\$', *dryrun=False*, *shell=False*, *good=0*) print and run one or more commands

- c: command or list of commands
- prompt: prompt to display when printing the command
- dryrun: just prints the command if true
- shell: passed to run_
- good: allowed exit codes; single integer or list of integers

ratom.common.run_(c, shell=False, good=0)
just run a command

- c: command
- shell: run via shell if true; avoid when possible, but necessary for things like * expansion
- good: allowed exit codes; single integer or list of integers

ratom.common.runp(c, prompt='\$', dryrun=False, shell=False, check=False, verbose=False) run a command and return the exit code, stdout and stderr back to the caller

- · c: command
- prompt: prompt to display when printing the command
- · dryrun: just prints the command if true
- shell: passed to run_
- check: don't raise an exception if true; for use only by check functions
- verbose: print command and output if true

ratom.common.section (n, c, dryrun=False, good=0) shorthand for a simple section

- n: name
- c: command or list of commands
- dryrun: passed to run function
- good: allowed exit codes; single integer or list of integers

ratom.common.section_begin (*m*, *a*="', *backticks=True*, *prefix=*'##') begin a section in the standard way

- m: header text
- a: additional content
- backticks: prints backticks for beginning a code block
- prefix: override the default header prefix

ratom.common.section_end(backticks=True) end a section in the standard way

3.2 Plugins

3.2.1 ratom.all

```
imports and runs all plugins
ratom.all.main(argv=None, cfg=None)
runs all plugins
```

3.2.2 ratom.aptget

```
update Debian via apt-get
ratom.aptget.check()
    check if can update Debian via apt-get
ratom.aptget.main(argv=None, cfg=None)
    update Debian via apt-get
```

3.2.3 ratom.clamav

```
update ClamAV signatures
ratom.clamav.check()
    check if can update ClamAV signatures
ratom.clamav.main(argv=None, cfg=None)
    update ClamAV signatures
```

3.2.4 ratom.conda

```
update Anaconda packages via conda
ratom.conda.check()
        check if can update Anaconda packages via conda
ratom.conda.main(argv=None, cfg=None)
        update Anaconda packages via conda
```

3.2.5 ratom.cpanm

```
update Perl modules via CPANM
ratom.cpanm.check()
    check if can update Perl modules via CPANM
ratom.cpanm.main(argv=None, cfg=None)
    update Perl modules via CPANM
```

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3.2.6 ratom.freebsd

```
update FreeBSD
ratom.freebsd.check()
    check if can update FreeBSD
ratom.freebsd.main(argv=None, cfg=None)
    update FreeBSD
```

3.2.7 ratom.gem

```
update Ruby gems
ratom.gem.check()
    check if can update Ruby gems
ratom.gem.main(argv=None, cfg=None)
    update Ruby gems
```

3.2.8 ratom.geoip

```
update GeoIP database
ratom.geoip.check()
    check if can update GeoIP database
ratom.geoip.main(argv=None, cfg=None)
    update GeoIP database
```

3.2.9 ratom.git

```
update Git repositories
ratom.git.check(p)
    check if can update Git repositories
ratom.git.main(argv=None, cfg=None)
    update Git repositories
```

3.2.10 ratom.homebrew

```
update Homebrew packages
ratom.homebrew.check()
    check if can update Homebrew packages
ratom.homebrew.main(argv=None, cfg=None)
    update Homebrew packages
```

3.2.11 ratom.macos

```
update macOS
ratom.macos.check()
    check if can update macOS
ratom.macos.main(argv=None, cfg=None)
    update macOS
```

3.2.12 ratom.macos_microsoft

```
update Microsoft software on macOS
ratom.macos_microsoft.check()
    check if can update Microsoft software on macOS
ratom.macos_microsoft.main(argv=None, cfg=None)
    update Microsoft software on macOS
```

3.2.13 ratom.msf

```
update Metasploit Framework
ratom.msf.check()
    check if can update Metasploit Framework
ratom.msf.main(argv=None, cfg=None)
    update Metasploit Framework
```

3.2.14 ratom.npm

```
update global NPM modules
ratom.npm.check()
    check if can update global NPM modules
ratom.npm.main(argv=None, cfg=None)
    update global NPM modules
```

3.2.15 ratom.perlbrew

```
update Perlbrew and check for updated Perl
ratom.perlbrew.check()
    check if can update Perlbrew
ratom.perlbrew.main(argv=None, cfg=None)
    update Perlbrew and check for updated Perl
```

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3.2.16 ratom.pip

```
update Python packages via pip
ratom.pip.check()
    check if can update Python packages via pip
ratom.pip.main(argv=None, cfg=None)
    update Python packages via pip
```

3.2.17 ratom.pyenv

```
check for new Python versions in pyenv
ratom.pyenv.check()
      check if can check for new Python versions in pyenv
ratom.pyenv.main(argv=None, cfg=None)
      check for new Python versions in pyenv
```

3.2.18 ratom.rbenv

```
check for new Ruby versions in rbenv
ratom.rbenv.check()
        check if can check for new Ruby versions in rbenv
ratom.rbenv.main(argv=None, cfg=None)
        check for new Ruby versions in rbenv
```

3.2.19 ratom.yum

```
update Red Hat via yum
ratom.yum.check()
    check if can update Red Hat via yum
ratom.yum.main(argv=None, cfg=None)
    update Red Hat via yum
```

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