Traction

Getting Traction for (your) Open Source Projects

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Why? (developers)

Promote your open source project

- Users
- Feedback
- Invisible benefits





Why? (non-developers)

Use your knowledge

- Contribute
- Improve software you use
- Enhance your resume



Michael Boelen

Open Source

Lynis, Rootkit Hunter

Business

Founder of <u>CISOfy</u>

Other

- Blogger at <u>Linux-Audit.com</u>
- Board member and program committee NLUUG





Traction?

Something that is "going" and grows (quickly)

Example: my open source project, that continuously gains in popularity, and becomes well-known.



Traction Channels

- Trade shows
- Affiliate programs
- Offline advertising
- Search Engine Marketing
- Social advertisements
- Viral marketing
- Business development
- Public relations

- Search Engine Optimization
- Content management
- Demo's
- Community building
- Speaking engagements
- Reaching out to blogs
- Social sharing
- Email marketing

Is that really needed for FOSS?

Importance of Traction

Software is written to be used



Translating to Open Source

Components

- Quality of software
- Promotion
- Community



Promotion

Experiment



Great tip:

by @mboelen at @TDOSE (@nllgg track)



Low-hanging fruit

Name

- Remember (or forget...)
- Length
- Goal



Name

Good Bad

Rootkit Hunter (rkhunter)

Lynis

Versioning

Semantic!

Major.Minor.Patch



Change Log

- History
- Trust
- Troubleshooting



Documentation

- README.md
- Get Started
- Other documentation



Project Description

GitHub SEO

lynis

Lynis - Security auditing and hardening tool, for UNIX-based systems.

Lynis is a security auditing for UNIX derivatives like Linux, macOS, BSD, and Solaris. It performs an **in-depth security scan** on the system itself, with the goal to detect issues and **provide tips for further system hardening**. It will also scan for general system information, vulnerable software packages, and possible configuration issues. Lynis is commonly used by people in the "blue team" to assess the security defenses of their systems.

We believe software should be **simple**, **updated on a regular basis**, **and open**. You should be able to trust, understand, and have the option to change the software. Many agree with us, as the software is being used by thousands every day to protect their systems.



Best Practices for CLI

- --full-throttle-engine, -f
- --help, -h, or help
- --version, -V

Learn more: doctopt.org

```
CISOFY AUDITING-HARDENING-COMPLIANCE
```

```
$ ./lynis show help
Lynis 2.4.1 - Help
Commands:
Use 'lynis show help <command>' to see details
Options:
--auditor
--check-all (-c)
 -config
 -cronjob (--cron)
 -debug
 -developer
 -help (-h)
--license-key
--log-file
 --manpage (--man)
 -no-colors --no-log
 -pentest
 -profile
 -plugins-dir
 -quiet (-q)
  auick (-0)
```

Best Practices for CLI

- Share progress
- Dots

```
[+] Plugins (phase 1)

Note: plugins have more extensive tests and may take several minutes to complete

- Plugin: compliance
  [...]
- Plugin: configuration
  [.]
- Plugin: control-panels
  [.]
- Plugin: crypto
  [...]
- Plugin: docker
  [...]
- Plugin: file-integrity
  [.......]
- Plugin: file-systems
  [.....]
```



Best Practices for CLI

- Use exit codes
- Data output
- Integrations

```
Lynis security scan details:
Hardening index : 63 [###########
Tests performed: 228
Plugins enabled: 14
Components:
- Firewall
                         [V]
- Malware scanner
Lynis Modules:
- Compliance Status
                         [?]
[V]
- Security Audit
- Vulnerability Scan
                         [V]
Files:
- Test and debug information
                                   : /tmp/lynis.log
- Report data
                                   : /tmp/lynis-report.dat
```



Updates

- Newer is better?
- Perform update check
- Make it easy



Releases

- Release often
- Who picks it up?
- RSS

Trick

https://github.com/CISOfy/lynis/releases.atom



Packages

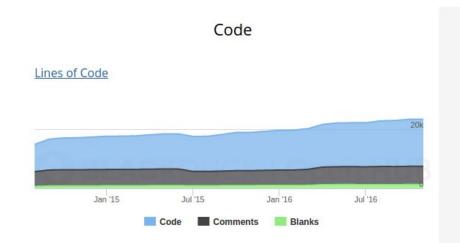
Good

- Promotion
- Easy of use

Bad

- Needs maintainer
- The "stable" bug

OpenHub



In a Nutshell, Lynis...

- ... has had 1,651 commits made by 51 contributors representing 15,946 lines of code
- ... is mostly written in shell script
 with a very well-commented source code
- ... has a young, but established codebase maintained by a very large development team with increasing Y-O-Y commits
- ... took an estimated 4 years of effort (COCOMO model) starting with its first commit in August, 2014 ending with its most recent commit 4 days ago

See more details: OpenHub



Takeaways

- Structure
- Simplicity
- Quality



High-hanging fruit

Sites about news/tools

CRON.WEEKLY

Want to subscribe? Enter your address here

SUBSCRIBE

I respect your privacy and you won't get spam. Ever.

Just a weekly newsletter about Linux and open source

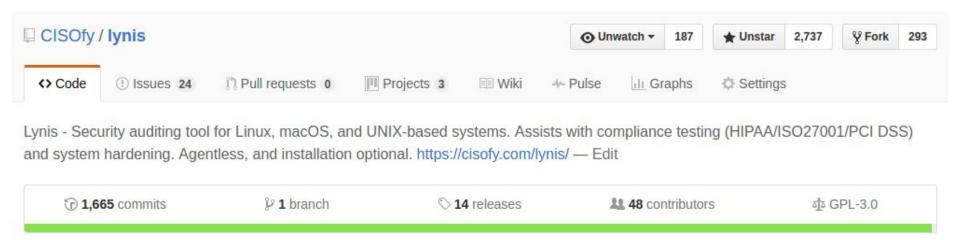
issue #53: RHEL 7.3, fpm, kpatch, sshesame, Minoca OS, Lynis & many more!

November 6, 2016 - Mattias Geniar

Welcome to cron.weekly issue #53 for Sunday, November 6th, 2016!



GitHub





Referral

A must-use tool



If you're a system administrator, a good auditing tool can make your life exponentially easier (or harder...depending upon the results of the audit). Lynis is a must-use tool for any Linux system administrator who takes the security of their systems and network seriously.

Give this tool a try, and see if it detects holes in the armor of your Linux systems.



Social Media

- Interact
- Share at the right time
- Challenge



Lorenzo Scalfani @lorenzoscalfani
The creator of two tools I am using to
research replied me. I'm running in
circles.

3d

Michael Boelen @mboelen in reply to Lorenzo Scalfani @lorenzoscalfani as you seem to like Linux security, have a look at linuxaudit.com - may be a great source for inspiration:)













Lorenzo Scalfani @lorenzoscalfani 3d @mboelen ohhh, that's very kind from you! I installed Linux 3 days ago for the 1st time, so it will take a while before understanding this.











Takeaways

- Know good sources
- Share and promote
- Monitor activity





PLAY 5 CREDITS

GOOD LUCK

ALL WINNING SYMBOLS MUST BE BISECTED BY THE PAYLINE







High traffic websites

- Hacker News
- Reddit
- Slashdot
- TechRepublic



Quality traffic (for security)

- Packet Storm Security
- ToolsWatch



Jackpot

Personal
Direct feedback
Fans





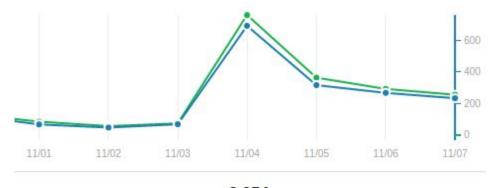
HN Effect

Traffic

2016-11-04: 4478

2016-11-05: 1656

2016-11-06: 1201



2,054 Unique cloners





HN Effect

Stars

2016-11-02: 1110

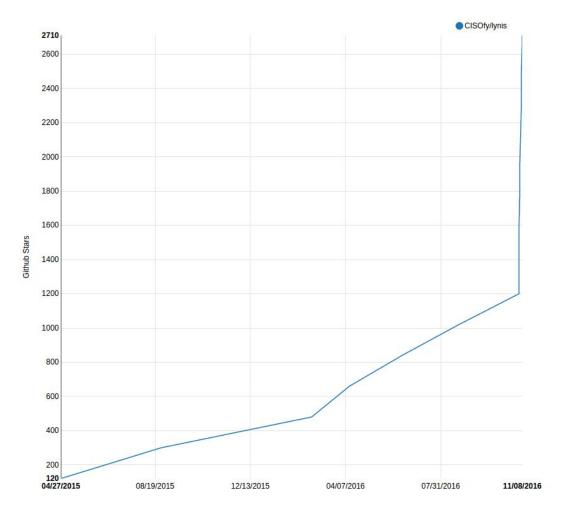
2016-11-04: 1200

2016-11-05: 1770

2016-11-06: 2130

2016-11-07: 2340

2016-11-08: 2670

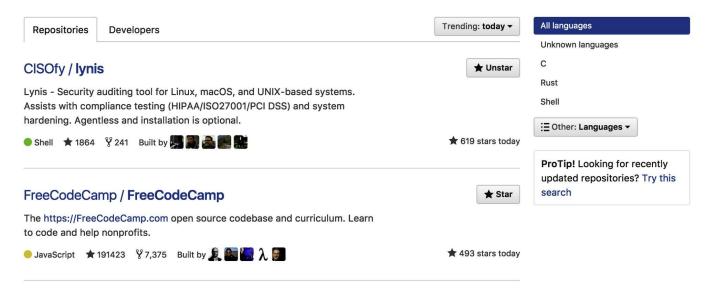




GitHub (Trending)

Trending in open source

See what the GitHub community is most excited about today.





Side effects

SECURITY

How to quickly audit a Linux system from the command line

For a deep penetrating scan of your Linux servers and desktops, turn to the Lynis auditing tool. Check out how to install and use Lynis.

By Jack Wallen y | November 7, 2016, 12:53 PM PST





The "sticky" effect

There is more behind the peak





Jackpot Multipliers

- Ask
- Networking
- Persistance



Lessons learned

1 - Be a Marketeer

Promotion is needed



2 - Humble versus Pride

Balance



3 - Quality

It takes time:

- Get the basics right
- Focus on simplicity
- Understand your users



More?

Articles on linux-audit.com

- Why we use your open source project (or not)
- How to Promote your Open Source Project

Share this presentation! ;-)



Questions?

Connect

- Twitter (<u>@mboelen</u>)
- LinkedIn (<u>Michael Boelen</u>)

