

Behind the scenes...

Running an open source software project

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TL;DR

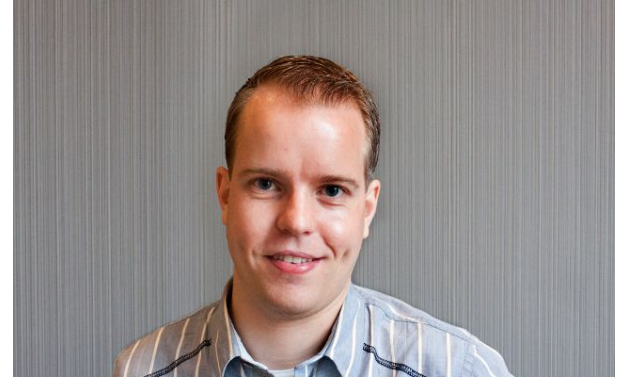
Software is written to be used

FOSS = Good and Bad

You are the project

Michael Boelen

- **Open Source**
 - Lynis, Rootkit Hunter
- **Business**
 - Founder of [CISOfy](#)
- **Other**
 - Blogger at [Linux-Audit.com](#)
 - Board member NLUUG



The project

Lynis: security scanner

Lynis security scan details:

```
Hardening index : 63 [#####          ]  
Tests performed : 228  
Plugins enabled : 14
```

Components:

```
- Firewall           [V]  
- Malware scanner   [X]
```

Lynis Modules:

```
- Compliance Status [?]  
- Security Audit    [V]  
- Vulnerability Scan [V]
```

Files:

```
- Test and debug information : /tmp/lynis.log  
- Report data                : /tmp/lynis-report.dat
```

Lynis

2007

- Shell script
- Started alone
- FreeBSD
- No marketing
- Limited public value
- Much time, no rewards

2018

- *same*
- Hundreds of contributors
- BSD, Linux, macOS, etc
- Ongoing marketing
- Private and public value
- Many rewards

Basics: Starting the project

Basics

- Name
- Project page
- License

Learn more: choosealicense.com

Documentation

- README(.md)
- Get Started
- Other documentation

GitHub

- Public
- Visibility
- Contributors

GitHub

CISOfy / lynis

Unwatch 269

Unstar 4,432

Fork 519

Code

Issues 19

Pull requests 2

Projects 7

Wiki

Insights

Settings

Lynis - Security auditing tool for Linux, macOS, and UNIX-based systems. Assists with compliance testing (HIPAA/ISO27001/PCI DSS) and system hardening. Agentless, and installation optional. <https://cisofy.com/lynis/>

Edit

shell linux pci-dss compliance security-audit security-hardening security-scanner security-vulnerability hipaa unix vulnerability-detection vulnerability-scanners vulnerability-assessment devops devops-tools system-hardening hardening auditing gdpr security-tools Manage topics

2,086 commits

1 branch

36 releases

88 contributors

GPL-3.0

Best Practices

Semantic versioning!

Major.Minor.Patch

Learn more: semver.org

Best Practices

Keep a changelog

- History
- Trust
- Troubleshooting

Learn more: keepachangelog.com

Best Practices

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

Learn more: [docopt.org](https://www.docopt.org)

```
$ ./lynis show help
Lynis 2.4.1 - Help
=====

Commands:
audit
show
update
upload-only

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)
--quick (-Q)
```

Best Practices

- Use exit codes
- Integrations
- Output
- Colors

```
Lynis security scan details:

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- Compliance Status [?]
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- Test and debug information : /tmp/lynis.log
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Updates

- **Release often**
- Add / Change / Delete
- Project visibility

Packages

Good

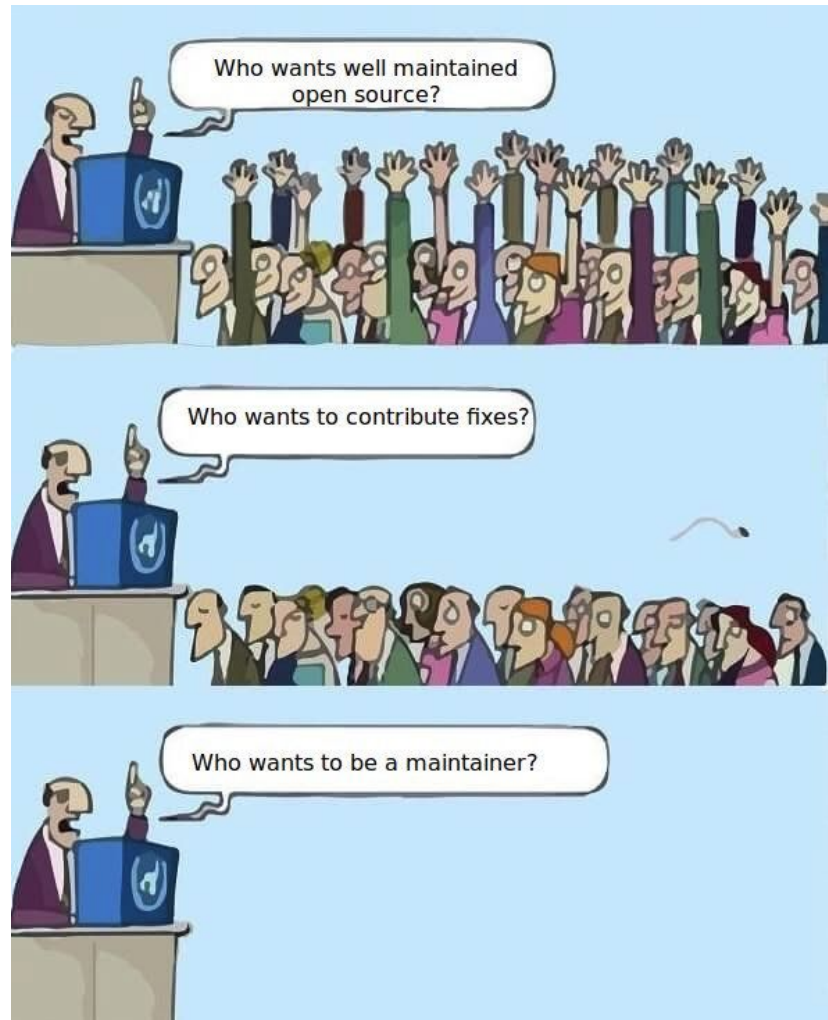
- Promotion
- Easy of use

Bad

- Needs maintainer
- The “stable” bug

Community

Not that easy...



Allow contributions

- Contributor guide
- GitHub pull requests
- Email

Social Media

- Share
- Interact
- Timing



Lorenzo Scalfani @lorenzoscalfani

3d

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

Michael Boelen @mboelen

in reply to Lorenzo Scalfani

@lorenzoscalfani as you seem to like Linux security, have a look at linux-audit.com - may be a great source for inspiration :)



← in reply to Michael Boelen



Lorenzo Scalfani @lorenzoscalfani

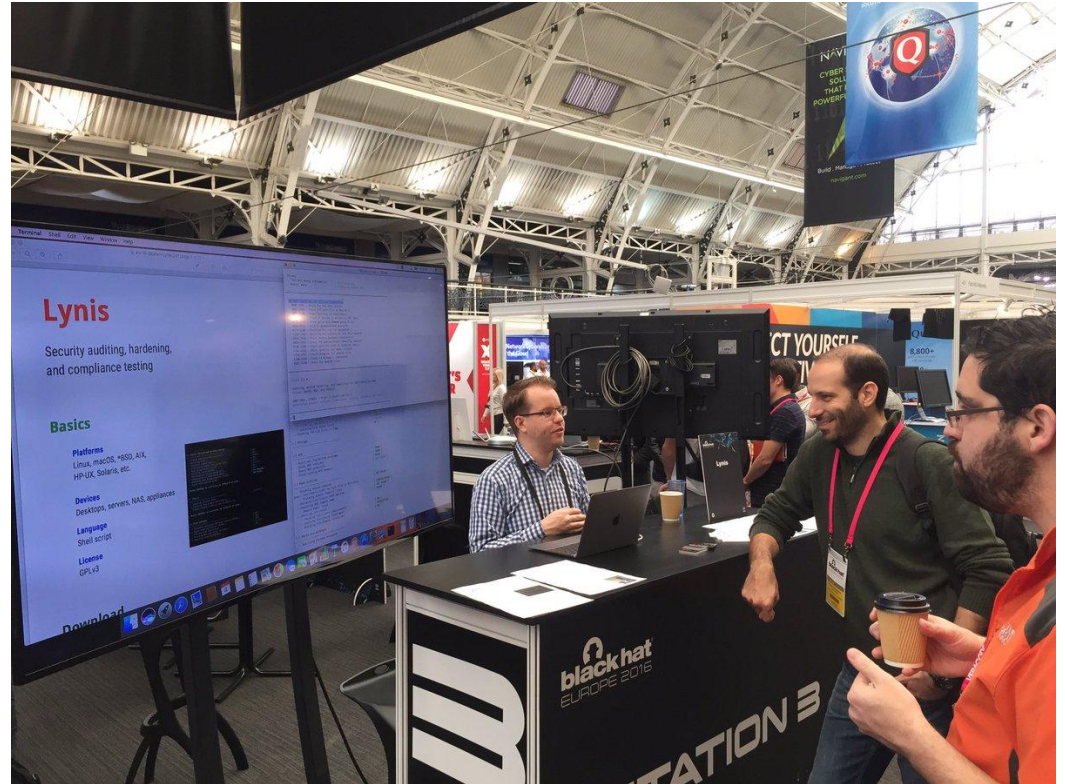
3d

@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.



Show

- Personal
- Feedback
- Fans



'No'

'no'
might make them angry.
but
it will make you free.

— if no one has ever told you, your freedom is
more important than their anger

Lessons learned

Lesson 1: Quality

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

Lesson 2: Be a Marketeer

- Share
- Show
- Present

Lesson 3: Attitude

- Be humble and proud
- Say 'no' (often)
- Remain friendly

More?

Articles on **linux-audit.com**

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

Questions?

Connect

- Twitter ([@mboelen](https://twitter.com/mboelen))
- LinkedIn ([Michael Boelen](https://www.linkedin.com/in/michaelboelen))

Credits

Images

Where possible the origin of the used images are included in the slides. Some came without an origin from social media and therefore have no source. If you are the owner, let us know and we add the source.