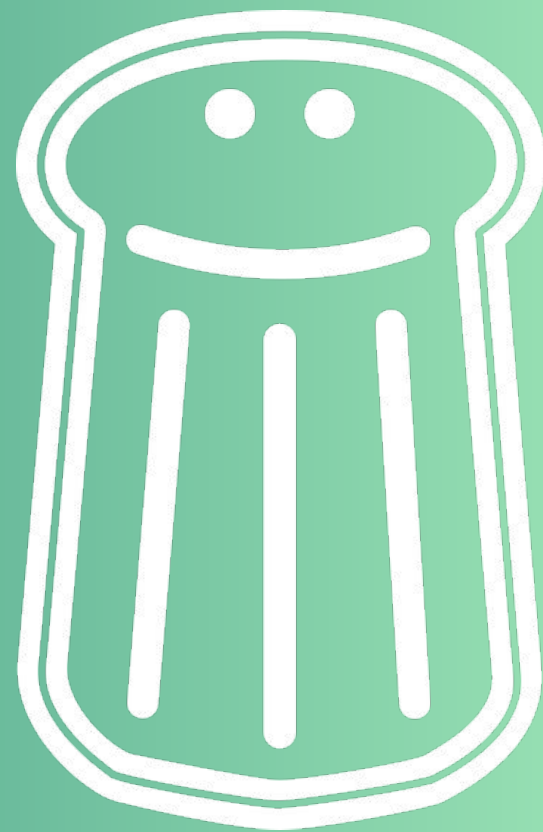


Configuration compliance in 2022

Pass The Salt 2022 - Ramps

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Who am I?

Alexandre BRIANCEAU

Cybersecurity university

Bull (French integrator) - Security and cloud project manager

French Polynesian Gov - Infrastructure Manager

Worteks - External Red Hat consultant




Rudder - Operations manager, then CEO



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Disclaimer: I may not be objective, feel free to discuss with me later!

Configuration audit are complex

- Many different systems (RHEL-like, Debian-like, Windows, AIX...)
- Many standards (CIS, PCI-DSS, SecNumCloud , BSI C5 , NIS , ...)
- Many technologies and usage (servers, laptops, IoT, containers, ...)
- Many heterogeneous configurations (many apps, many teams, ...)
- Knowledge management is hard (*"You know nothing Jon Snow"*)

And finally, many open source tools exists to audit configuration compliance !

1 - Bash scripts and hardening deployment

Scripts or playbooks that enforce hardening. Auditing by erasing (is it auditing?).

[Ansible Lockdown collection](#) (MIT)

[OVH Debian-CIS](#) (Apache-2.0)

[Jsietch JShielder](#) (GPLv3)

```
TASK [rhel:7:stig | REDHAT | RHEL-07-030200 | The Red Hat Enterprise Linux operating system security patches and updates must be installed and up to date.] ***
[...]
```

2 - Scanning tool

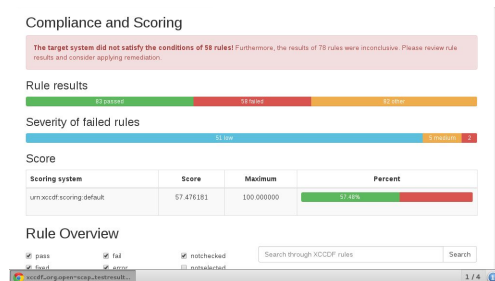
Focus on scanning host by host based on templates (such as CIS)

Some are generics:

[OpenSCAP](#) (LGPL-2.1), [Cisofy Lynis](#) (GPLv3) , [Checkmarks KICS](#) (Apache-2.0)

And other are specifics:

[Rancher CIS-Operator](#) (Apache-2.0), [Aquasec Kub-Bench](#) (Apache-2.0),
[Alibaba Cloud Compliance](#) (Apache-2.0), [Neuvector Kubernetes CIS](#) (Apache-2.0)



3 - Configuration management with dashboards

Auditing & enforcing all hosts with centralized dashboards

Based on open-source project (but not open-source)

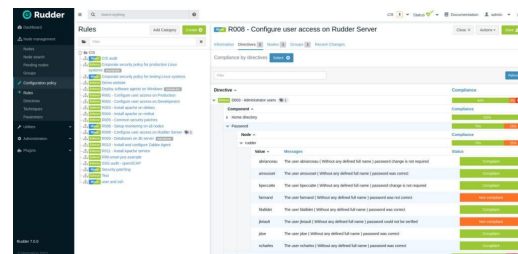
VMware Saltstack, Perforce Puppet Comply: dashboards and preset rules with enforcing

CFEngine Enterprise: dashboards only with enforcing

Open-source projects

[OpenSCAP Scap-Workbench](#) (GPLv3): preset rules with enforcing on single host

[Normation Rudder](#) (GPLv3): dashboards, audit + enforcing
(rules presets in 2023)



Conclusion

Choose your tools depending on your needs:

Small volumetry for **sec team**: OpenSCAP or Lynis

Small volumetry for **ops team**: Ansible lockdown or any configuration mgmt tool

Big volumetry for **sec team**: OpenSCAP + Satellite (for redhatters) or Rudder

Big volumetry for **ops team**: same

These tools are more versatile than specific tools (for Kubernetes for example).

Thank you!

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[@abrianceau](#) or by scanning:

