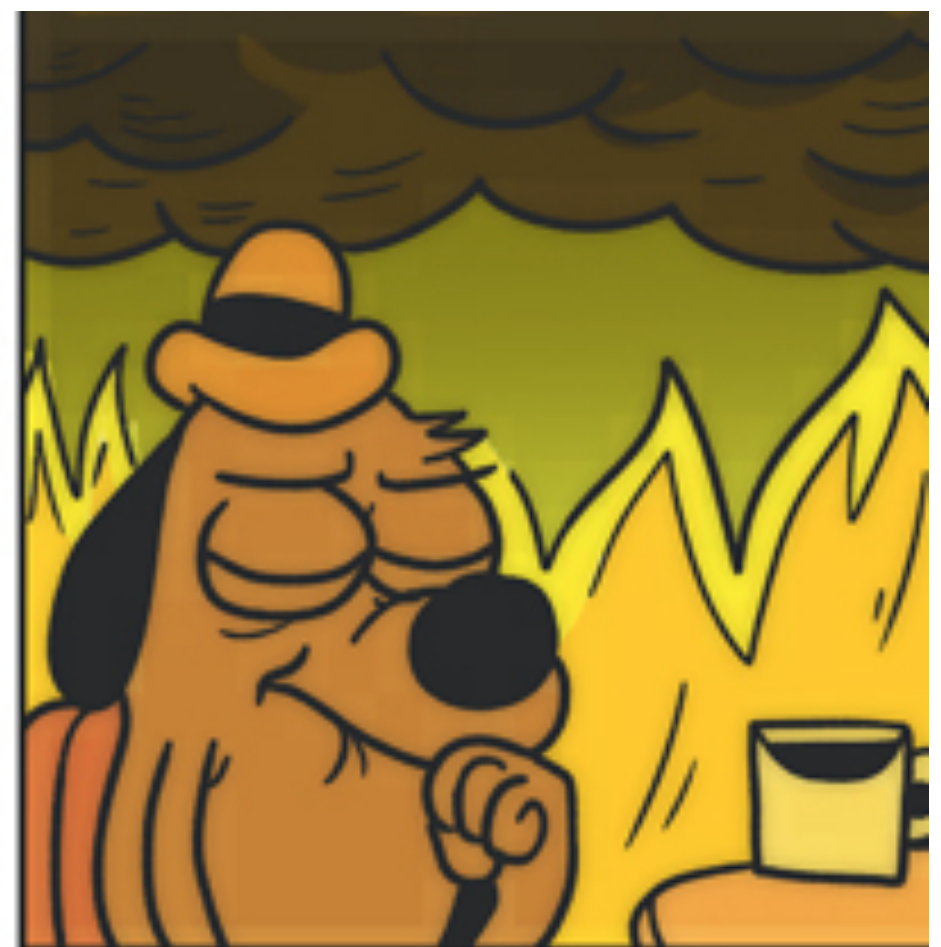
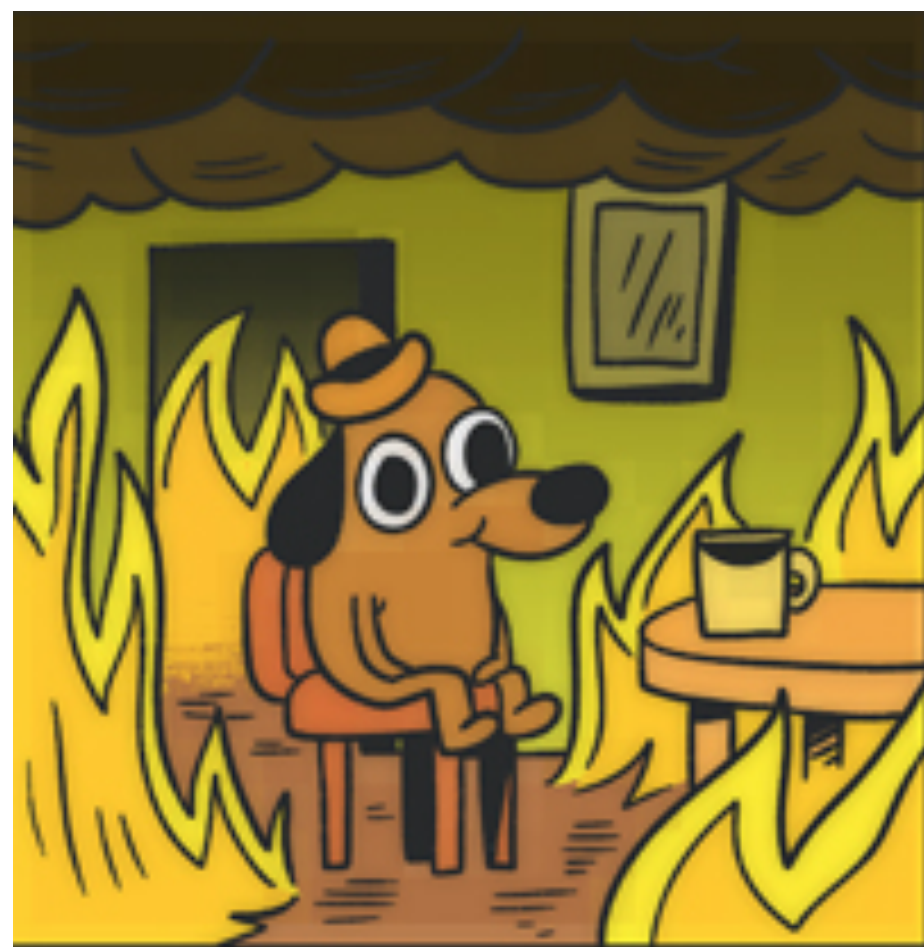


SCALE YOUR AUDITING EVENTS

Philipp Krenn

@xeraa





UDITD

<https://github.com/linux-audit>

"auditd is the userspace component to the Linux Auditing System. It's responsible for writing audit records to the disk. Viewing the logs is done with the ausearch or aureport utilities."

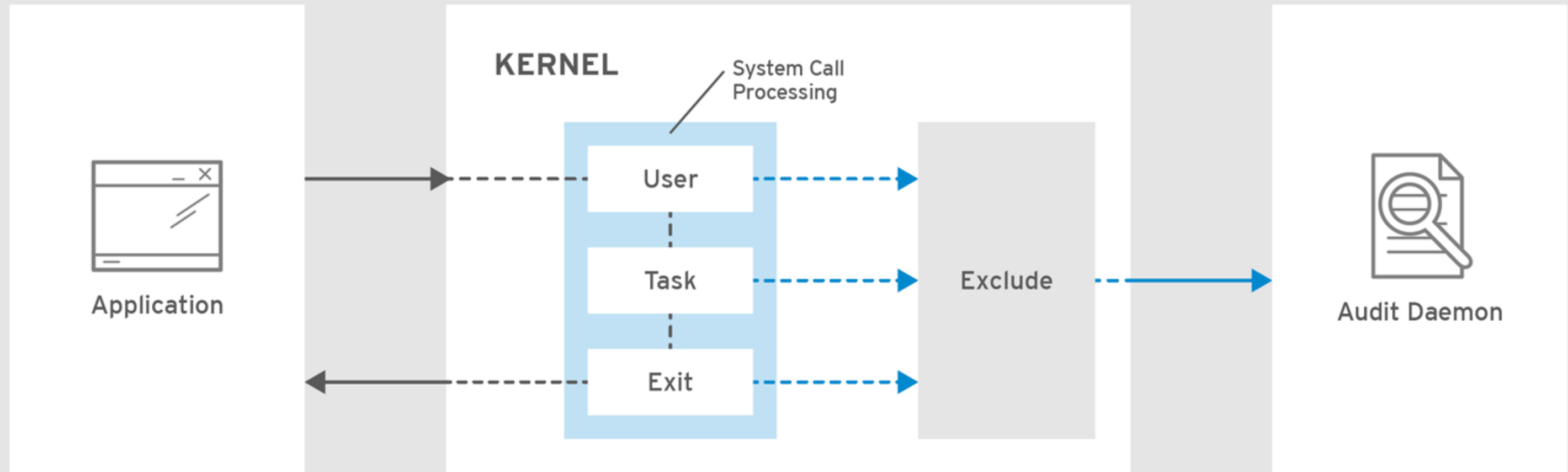
MONITOR

File and network access

System calls

Commands run by a user

Security events



RHEL_453350_0717

DEMO

UNDERSTANDING LOGS

https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/7/html/security_guide/sec-understanding_audit_log_files

MORE RULES

<https://github.com/linux-audit/audit-userspace/tree/master/rules>

NAMESPACES WIP

<https://github.com/linux-audit/audit-kernel/issues/32#issuecomment-395052938>

ALL THE THINGS!



Problem

HOW TO CENTRALIZE?

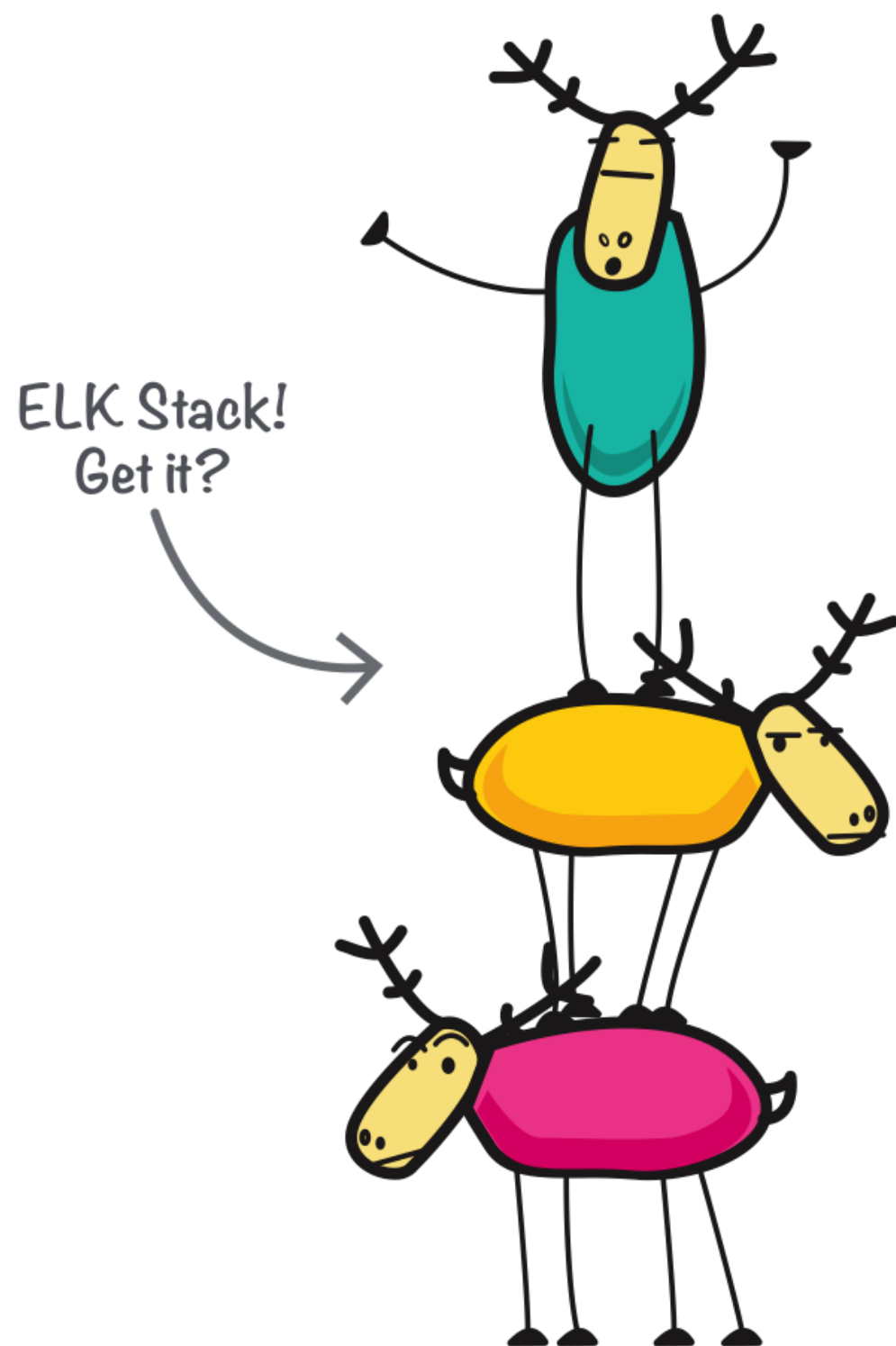


elastic

Developer 🥑

Disclaimer

I BUILD **HIGHLY** MONITORED HELLO
WORLD APPS

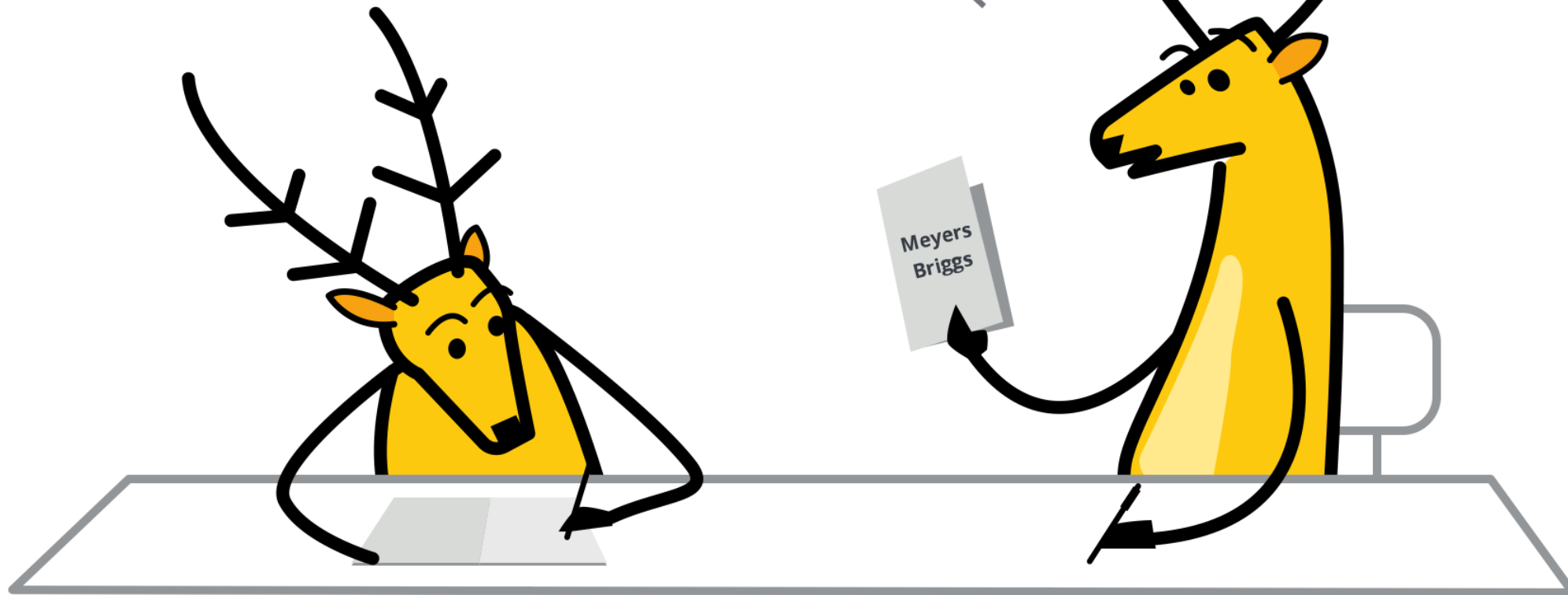


E Elasticsearch

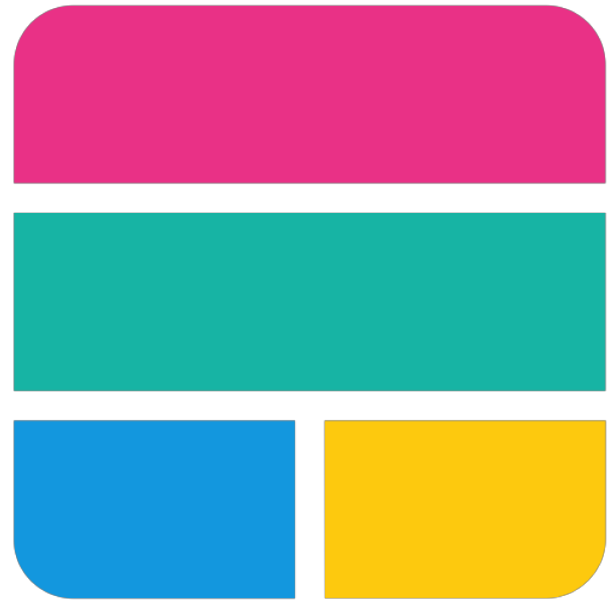
L Logstash

K Kibana

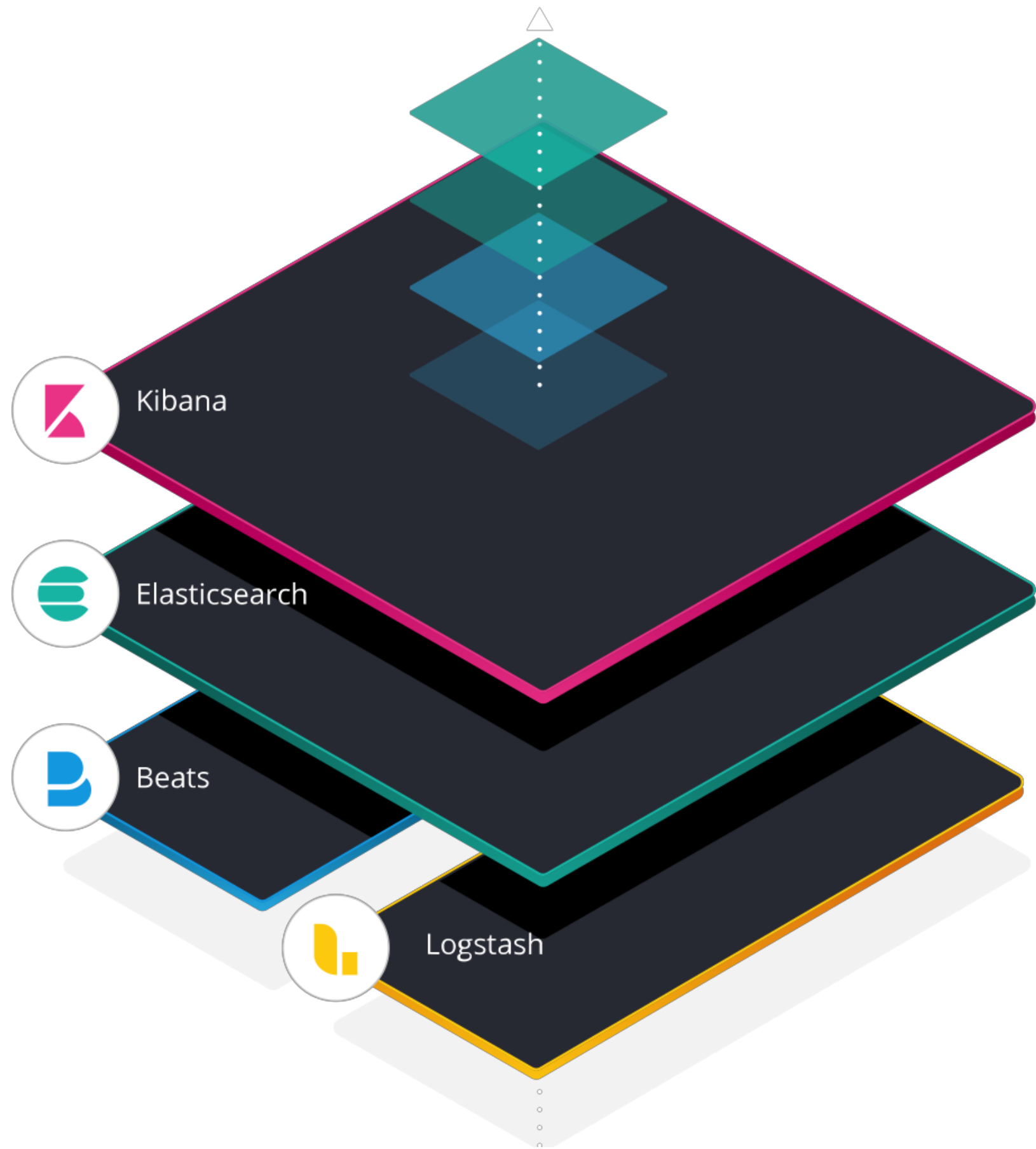
*Apparently, I'm an
ELKB personality.*







elastic stack

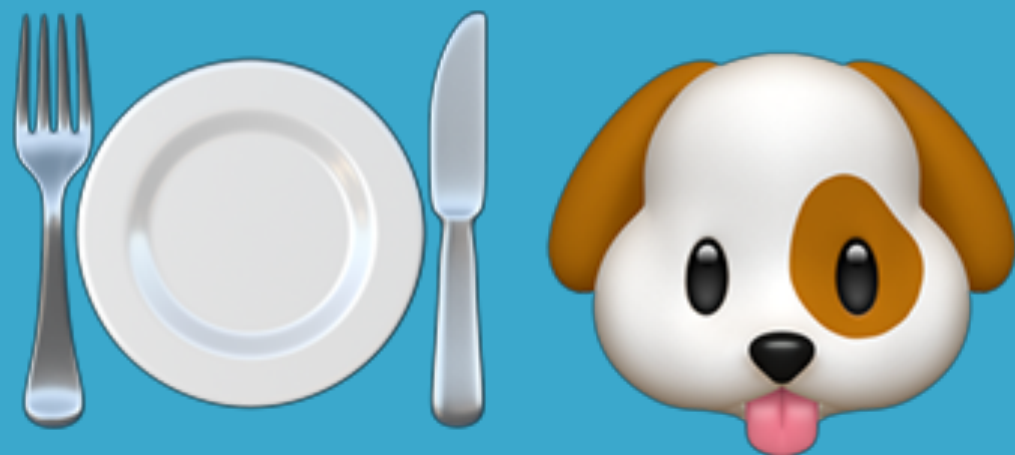




open source

FILEBEAT MODULE: AUDITD

DEMO







elastic cloud

<https://cloud.elastic.co>

AUDITBEAT

AUDITD MODULE

Correlate related events

Resolve UIDs to user names

Native Elasticsearch integration

AUDITD MODULE

eBPF powers on older kernels

Easier configuration

Written in Golang

Enhance add_docker_metadata to enrich based on PID

#6100

Edit

Merged exekias merged 2 commits into elastic:master from andrewkroh:feature/libbeat/docker-pid-metadata on 18 Jan

Conversation 10

Commits 2

Checks 0

Files changed 22

+424 -70



andrewkroh commented on 17 Jan

Member



This PR enhances `add_docker_metadata` with the ability to enrich events containing process IDs.

The processor uses cgroup membership data from `/proc/pid/cgroup` to determine if the process is running inside of a Docker container. It caches the PID -> CID mapping for 5 minutes (based on time of last access).

The default configuration sets `match_pids: [process.pid, process.ppid]` . It falls back to the PPID in case the process has exited before the processing occurs.



Reviewers

- ruflin
- exekias
- dedemorton

Assignees

No one—assign yourself

Labels

:Processors

GO-LIBAUDIT

<https://github.com/elastic/go-libaudit>

go-libaudit is a library for communicating with the Linux Audit Framework

DEMO

SYSTEM MODULE

Easier configuration for host, process,
socket, user

Added in 6.6 — not based on Auditd

DEMO

FILE INTEGRITY MODULE

inotify (Linux)
fsevents (macOS)
ReadDirectoryChangesW (Windows)

hash_types

blake2b_256, blake2b_384, blake2b_512, md5, sha1,
sha224, sha256, sha384, sha512, sha512_224, sha512_256,
sha3_224, sha3_256, sha3_384, sha3_512, xxh64

DEMO

CONCLUSION



AUDITD
AUDITBEAT
LOGS, DASHBOARDS, ...



Panagiotis Moustafellos @pmoust · Feb 3



Replying to @xeraa @pipedevzero @ynirk

I can share that we do use auditbeat to monitor our Elastic Cloud infra, some thousands VMs and bare metal servers, since it was first released. We should be publishing a blog post about it on elastic.co in the near future.

TRY

<https://dashboard.xeraa.wtf>

SSH: elastic-user@xeraa.wtf secret

CODE

[https://github.com/xeraa/
auditbeat-in-action](https://github.com/xeraa/auditbeat-in-action)

SIMILAR SOLUTIONS

<https://github.com/slackhq/go-audit>

<https://github.com/Scribery/aushape>

QUESTIONS?

Philipp Krenn

@xeraa

PS: Sticker