

# Hands-On ModSecurity and Logging

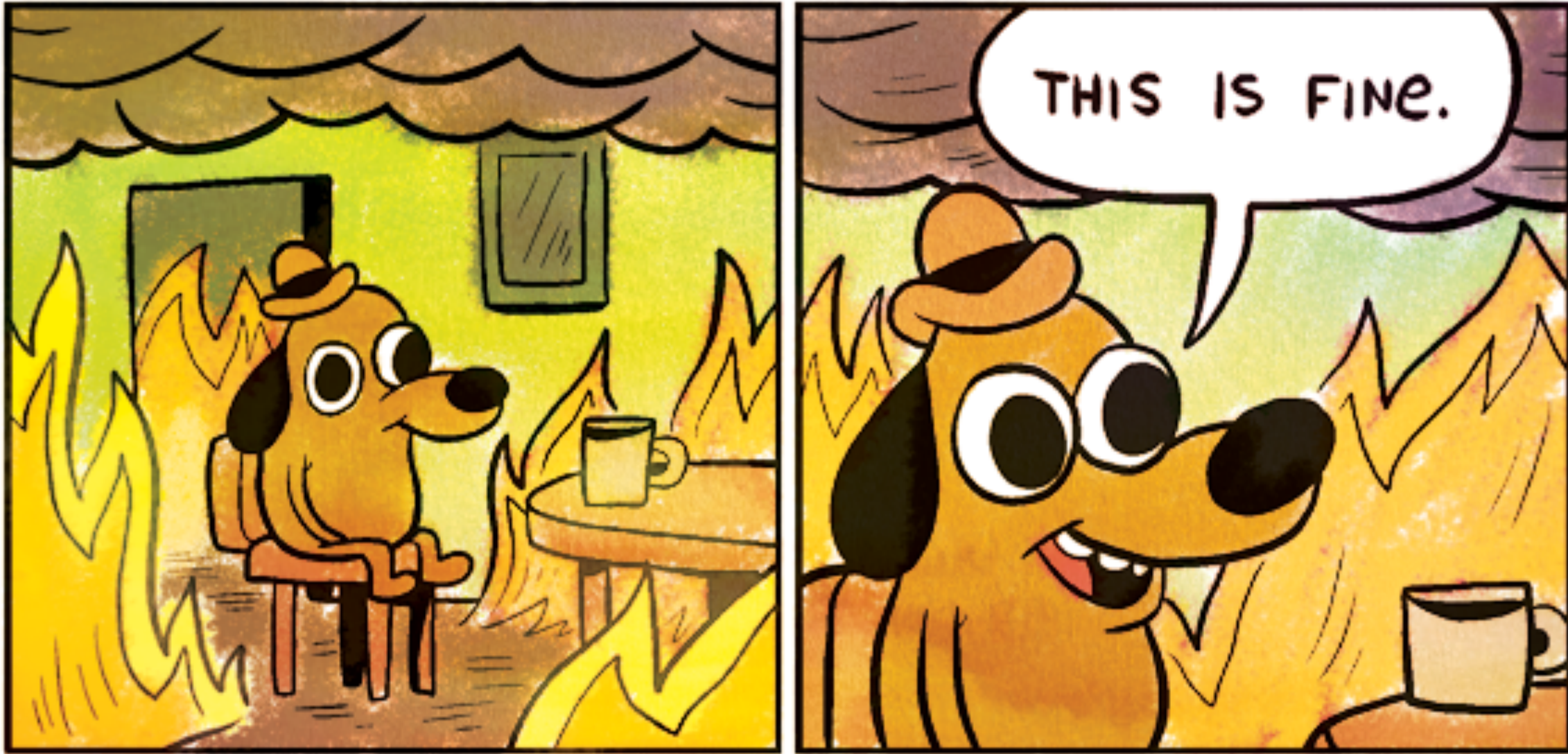


**code.talks**  
commerce

Philipp Krenn

@xeraa

# Let's talk about security...



# A1:2017-Injection

[https://www.owasp.org/index.php/  
Top\\_10-2017\\_Top\\_10](https://www.owasp.org/index.php/Top_10-2017_Top_10)

# A10:2017-Insufficient Logging & Monitoring

[https://www.owasp.org/index.php/Top\\_10-2017\\_Top\\_10](https://www.owasp.org/index.php/Top_10-2017_Top_10)







# elastic

Developer 🥑

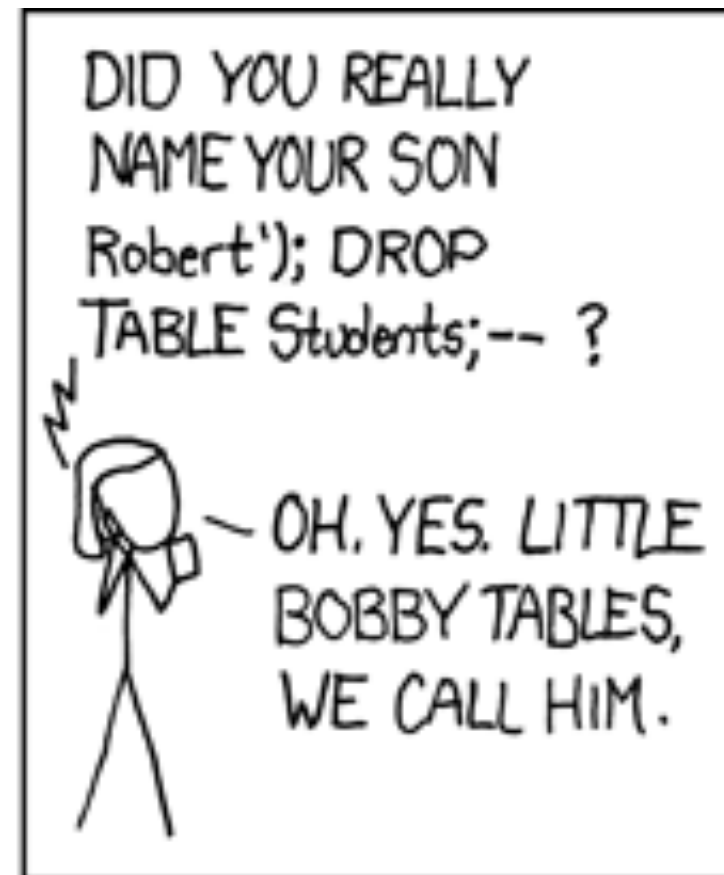
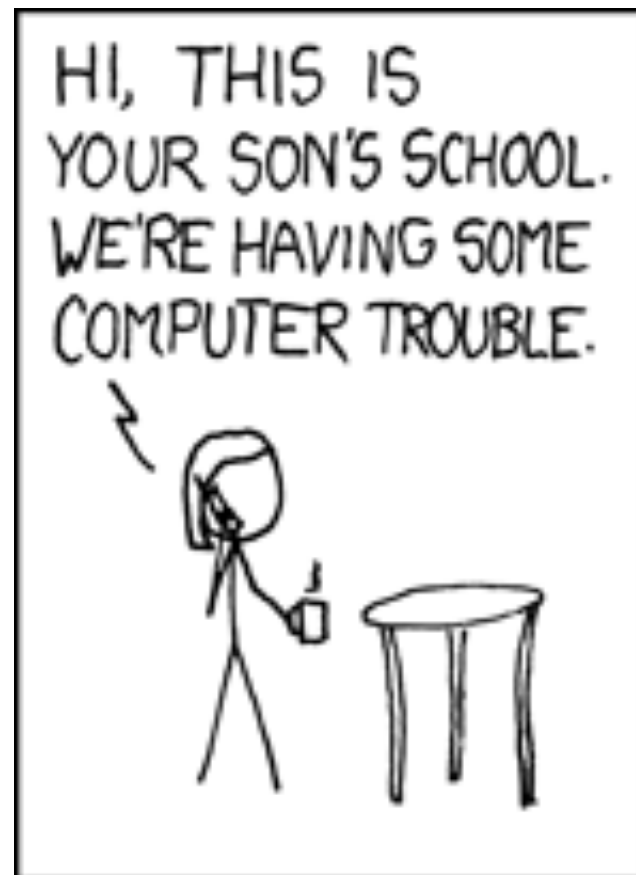
# Disclaimer

I build **highly** monitored Hello World  
apps



Hello World of SQL Injection:  
<https://xeraa.wtf>

<https://xeraa.wtf/read.php?id=1> 🤔



# sqlmap<sup>®</sup>

Automatic SQL injection and database  
takeover tool

# Injection


```
;INSERT INTO employees (id,name,city,salary) VALUES  
    (4,'test','test',10000)
```



ALL THE THINGS!



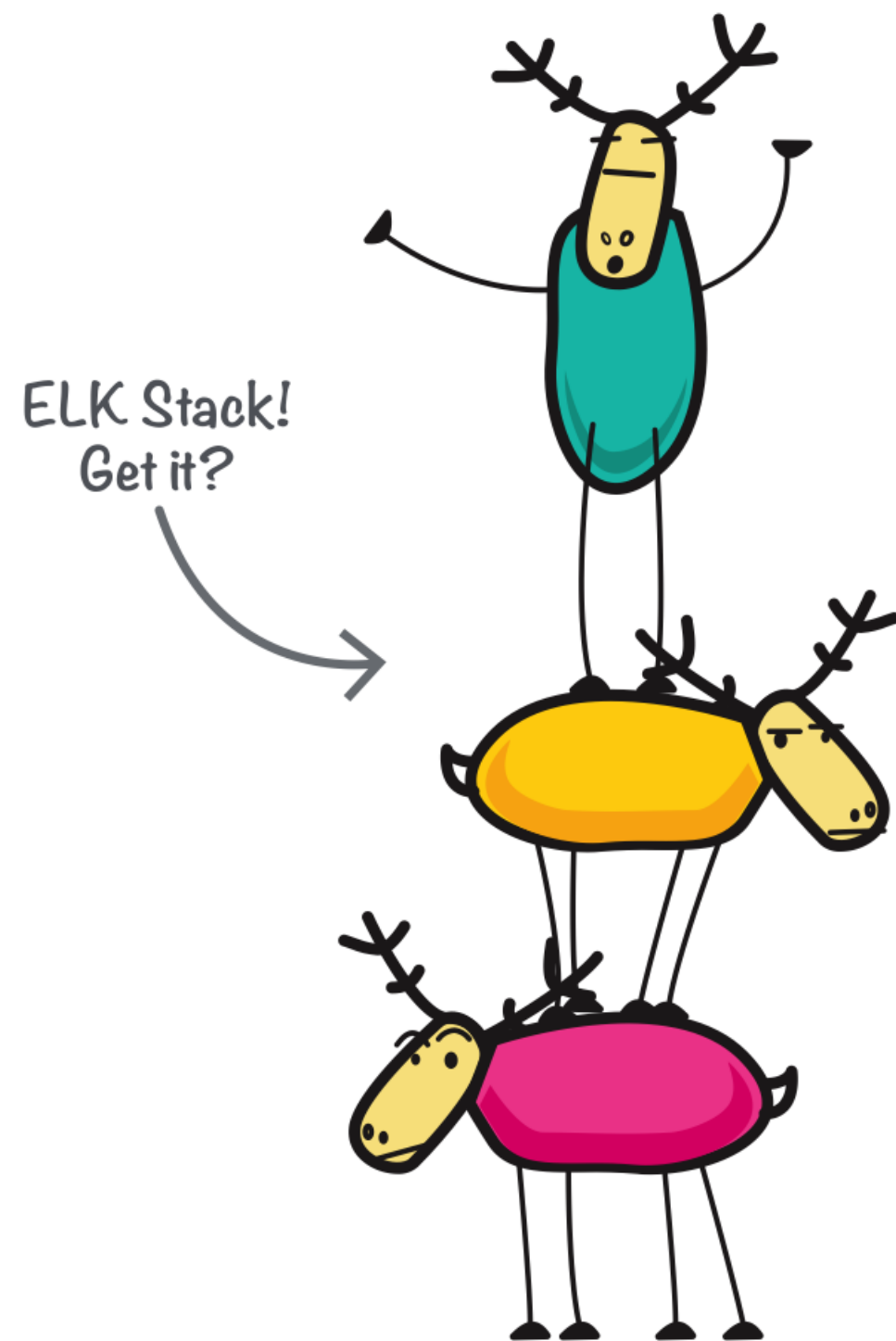


The background image shows a large, rusted metal structure, likely the hull of a ship, with a bright light source in the background. The structure is heavily corroded and has a reddish-brown patina. A bright light source, possibly a searchlight or a flare, is visible in the upper right, casting a beam of light across the scene. The overall tone is dark and industrial.

me looking  
for the bug

**7.2 GB**  
**of log file**





**E** Elasticsearch

**L** Logstash

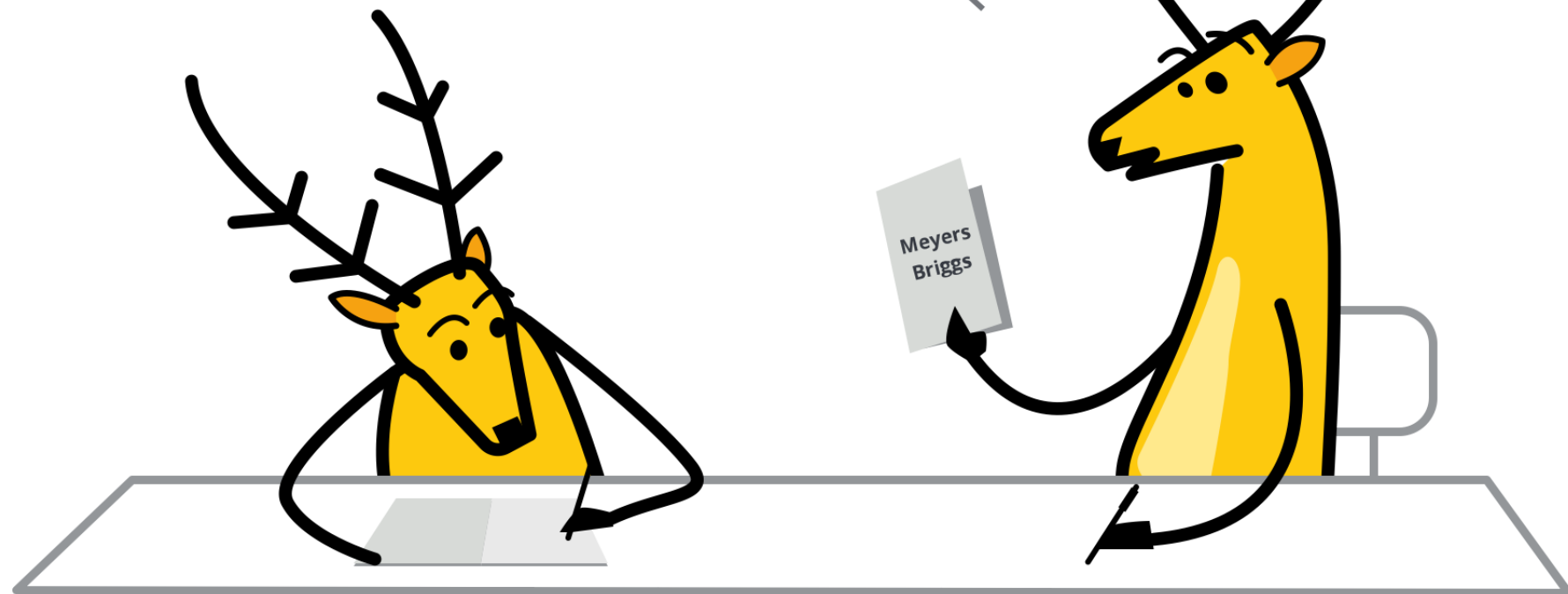
**K** Kibana

lyft

 slack

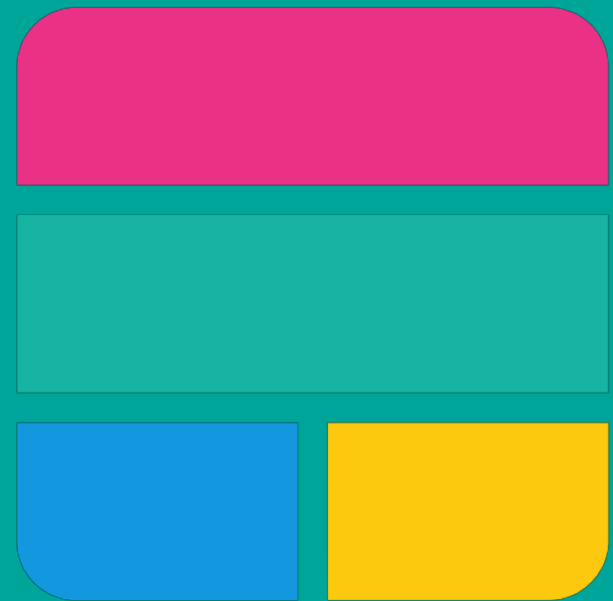
 fitbit

*Apparently, I'm an  
ELKB personality.*

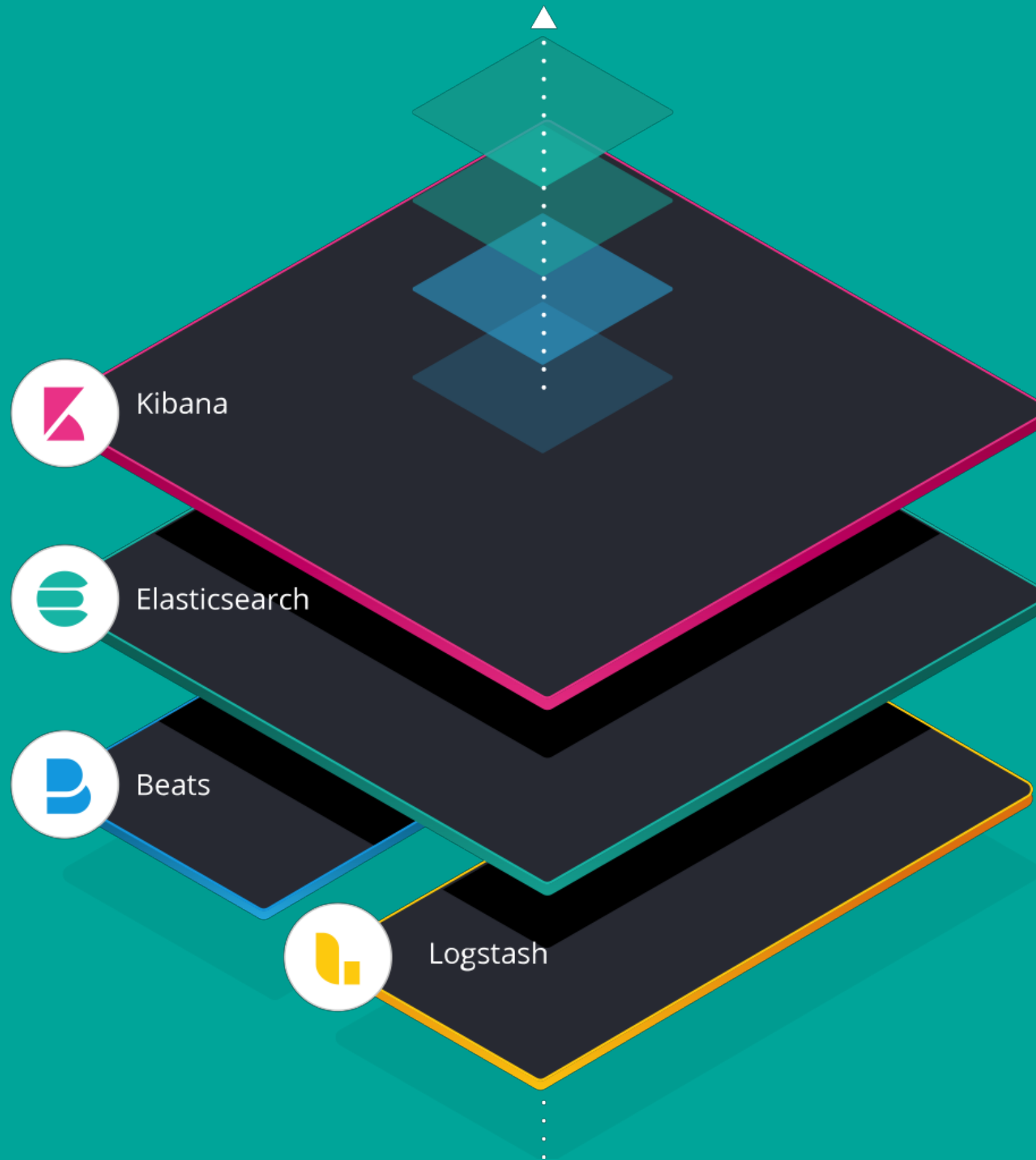








# elastic stack



# What's going on in our app?

# DELETE or DROP?





# OWASP ModSecurity Core Rule Set

**THE 1<sup>ST</sup> LINE OF DEFENSE**

# Custom Rule

```
SecRule REQUEST_FILENAME "form.php" "id: '400001',chain,deny,log,msg: 'Spam detected' "  
SecRule REQUEST_METHOD "POST" chain  
SecRule REQUEST_BODY "@rx (?i:(pills|insurance|rolex))"
```

# Conclusion

# Examples

[https://github.com/xeraa/mod\\_security-log](https://github.com/xeraa/mod_security-log)

Code  
Logging  
ModSecurity



# Questions?

Philipp Krenn

@xeraa