

# Suricata IDS/IPS

A group of meerkats is shown in a desert-like environment. In the foreground, a cobra snake is coiled on the ground, its head raised. A meerkat is standing directly in front of the snake, with its mouth wide open as if baring its teeth. Other meerkats are visible in the background, some looking towards the camera and others looking towards the snake.

**Victor Julien**  
**NLUUG 19/11/2015**

# whoami

- @inliniac
- [blog.inliniac.net](http://blog.inliniac.net)
- Open Source hippie
- Suricata creator and lead dev
- Vuurmuur

# Whats in a name?

**Day 37:**



**They still do not suspect  
I am a mere cat.**

# Who still knows their network?

- Increasing complexity
- BYOD
- IoT
- VM's and containers
- ICS/SCADA

Suricata is an engine for...

Network Intrusion Detection

Network Intrusion Prevention

Network Security Monitoring

# IDS? IPS?

- (N)IDS: (Network) Intrusion Detection System
- IPS: Intrusion Prevention System
- “System to uncover malicious/unwanted activity on your network by inspecting the network traffic”
- System? => Engine

# NSM

- Traditionally IDS was “alert” based
- Network Security Monitoring (NSM) does much more
- “collect everything”, including FPC



## THE TAO OF NETWORK SECURITY MONITORING

Beyond Intrusion Detection



**RICHARD BEJTlich**  
*Foreword by* **RON GULA**,  
CTO, Tenable Network Security

# Suricata Features

- Inspect traffic for known bad using Snort language
- Lua based scripting for detection
- Unified JSON output for easy post-processing
- Extract files
- Scalable through multi-threading



# Suricata ecosystem

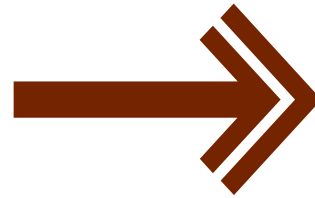
- Distributions
  - SELKS
  - SecurityOnion
- Management tools
  - Evebox
  - Scirius
- Event processing
  - Mobster
  - Barnyard2

# OISF

- Open Information Security Foundation
- US based non-profit
- Owns Suricata code
- Community driven and controlled



# Getting paid for OSS



# Demo's!

- Commandline foo
- SELKS
- “Amsterdam”

No animals will be hurt





# Commandline foo

- Replay pcap
- Show what Suricata logs
- Tool used: 'jq'

# SELKS

- “Suricata Elasticsearch Logstash Kibana Scirius”
- Open source Debian Jessie based (live) distro with:
  - Suricata
  - ELK stack
  - Scirius rule manager
- Currently with Kibana 3

# “Amsterdam”

- SELKS on Docker
- Uses docker compose
- Takes Docker images from various sources
  - e.g. various ELK parts from the official ELK images
- Has Kibana 4 (but no preset dashboards yet)



# Try Suricata

- <http://suricata-ids.org>
  - Source
  - Ubuntu PPA
  - @Suricata\_IDS
- <https://www.stamus-networks.com/open-source/#selks>
  - @StamusN

Questions?