#### SharkFest'24 EUROPE Vienna, Austria • #sf24eu



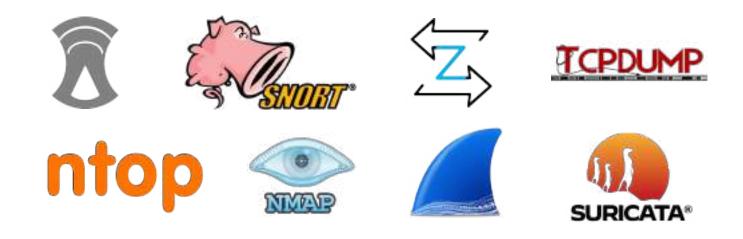
## **Ecosystem Expansion**

Gerald Combs Core Developers

### What Do All Of These Have In Common?

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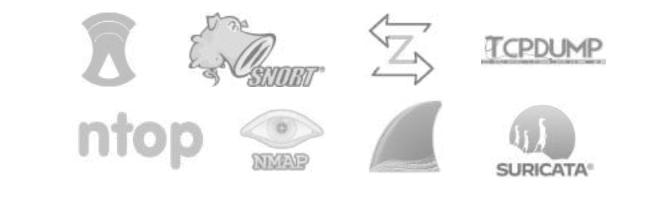


If your favorite isn't here, I ran out of space for logos. Sorry.

### **They're Part Of An Ecosystem**

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## Lets application developers focus on features

## Capture anywhere (with WinPcap/Npcap)

Common file format is a productivity multiplier

## Having a common library and file formats works really well.

Where can we duplicate this success?

Having a common library and file formats works really well.

Where can we duplicate this success?

System calls

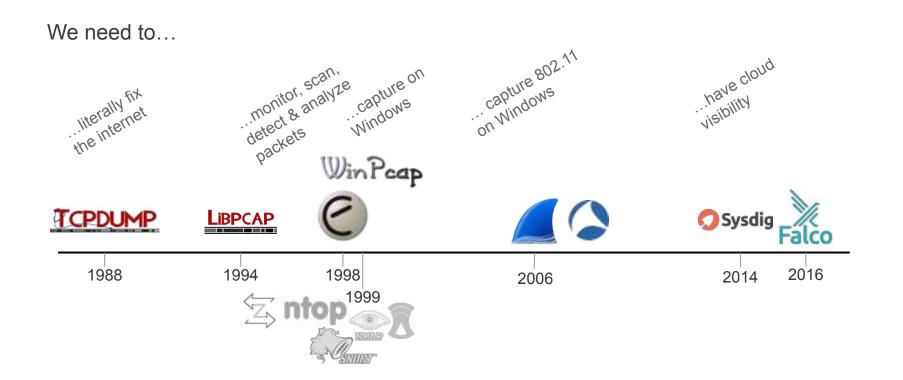
Logs

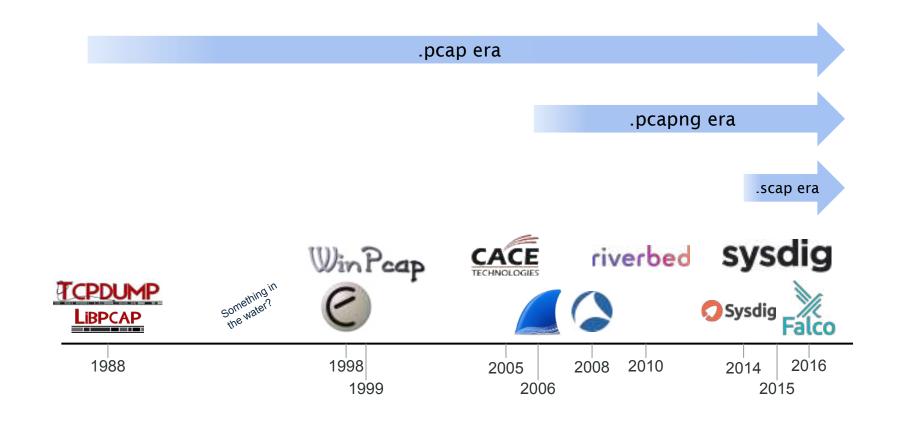
Whatever erupts from your fevered imagination

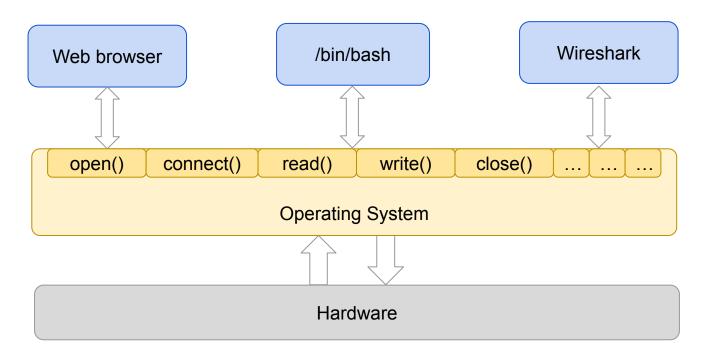
### **Solving Problems Solves More Problems**

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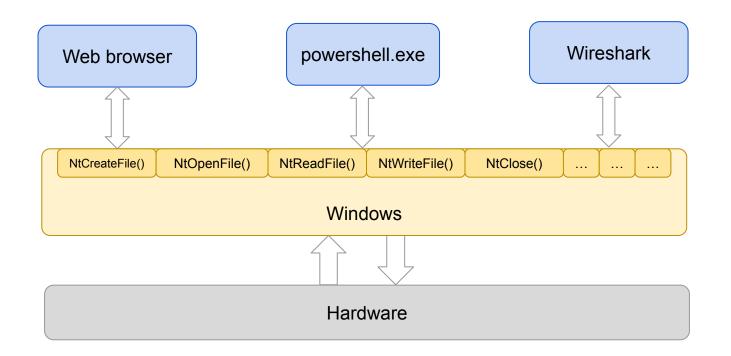






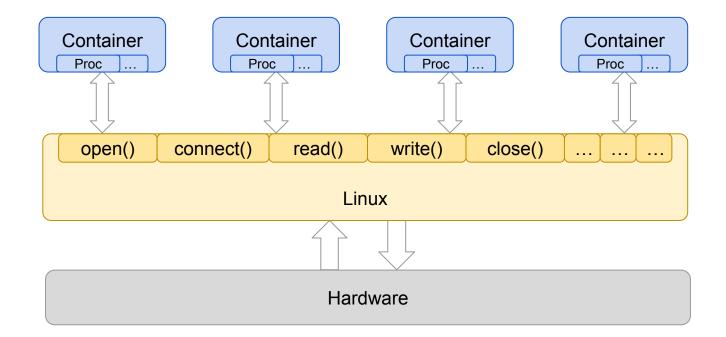


Have you ever read man pages on Linux or macOS? System calls are section 2!



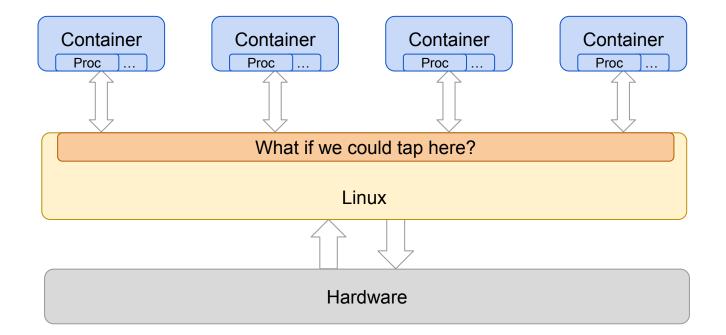
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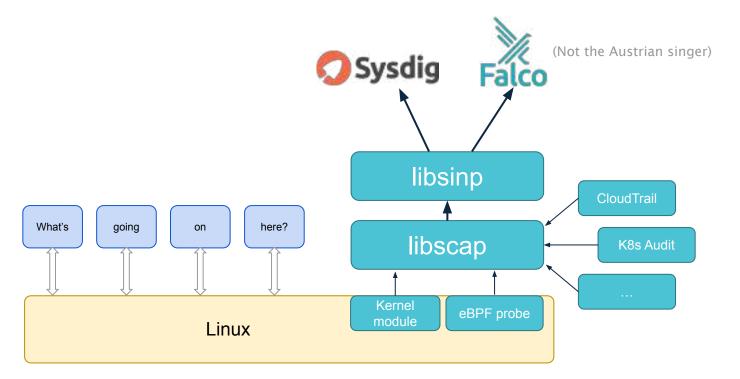


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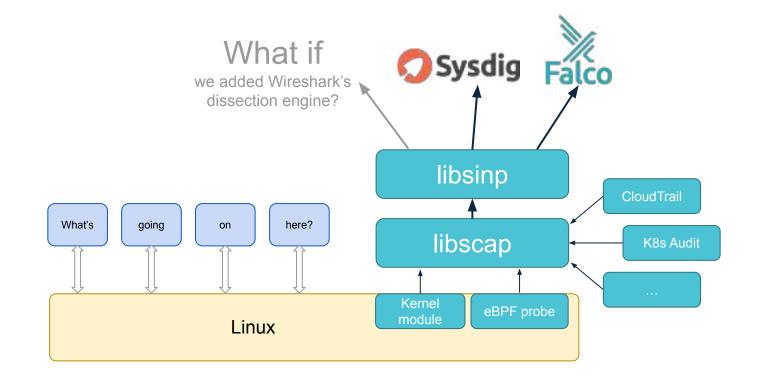




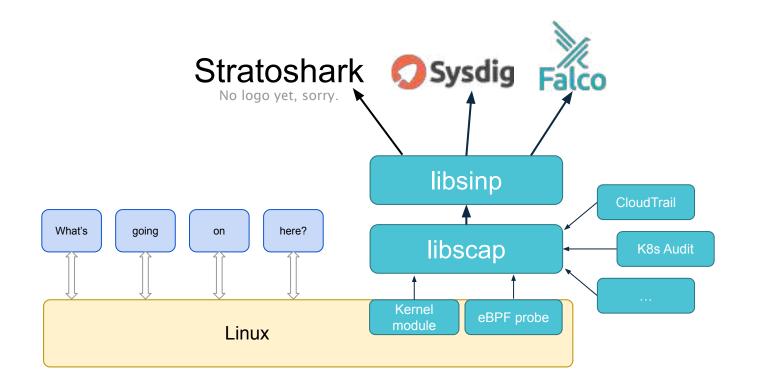
https://github.com/falcosecurity/libs















## **Demo Time'**

1. May contain traces of danger and stupidity





## When?

Officially? Early 2025. Technically? Now.

https://www.wireshark.org/download/automated/



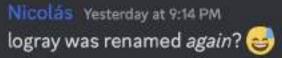
## This is in addition to, and not instead of, Wireshark

# Rough in the sense that there's still lots to fill in and smooth out

The slate is intentionally blank









Onicolds logray was renamed again?
 Gerald Today at 11:02 AM
 It's only the fourth name. What's the problem?
 1 
 1 
 2

## Name Parity

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## Wireshark lives in your network, Stratoshark lives in your cloud

# Not just logs – syscalls are prominently featured

"Shark" brand is very strong



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# **Developer Time**



4.4 added and improved:

Lua 5.3 / 5.4

Display filter updates

Automatic profile switching

I/O Graph, Sequence Diagram, TCP Stream Graph

More custom column support



Probably summer 2025

Considerations:

Have we accumulated significant features?

Qt LTS version maturity

Left edge of Linux LTS version windows

Millions of lines of code ...3.5M or maybe 6.4M?

~ 1.5M Downloads / month ...on the servers we manage

~83% Windows, ~16% macOS ...again, on the servers we manage

- 4100 Discord users
- 3000 protocols, 250k fields
- 2300 authors
- Two yearly conferences
- One foundation



Steering committee is now official

Platinum member: Endace

Silver members: Veeam, Npcap



*Good:* Donate at wiresharkfoundation.org

*Better:* Set up a recurring donation

*Best:* Get your employer to match donations or become a member

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# **Thank You**



Automated builds

https://www.wireshark.org/download/automated

event-extras.lua

https://gist.github.com/geraldcombs/d7d541af18890750f1a4197e4 06e7cf9

Linux system calls

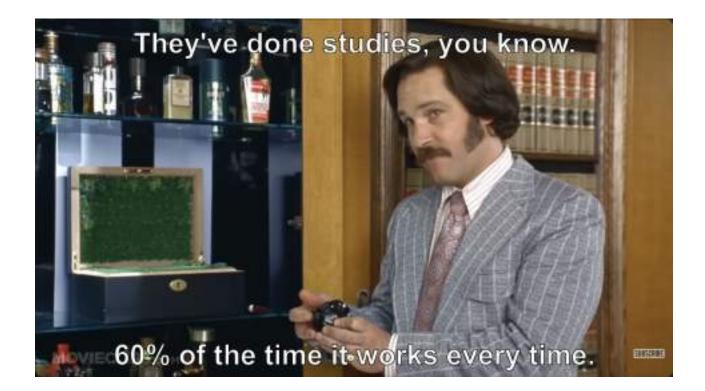
https://filippo.io/linux-syscall-table/

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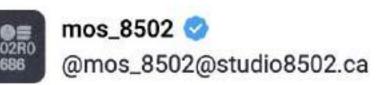


## **Bonus Slides**









## Hot take: open source is good. But open data formats are far more important. Programs can be replaced. Often your data cannot.

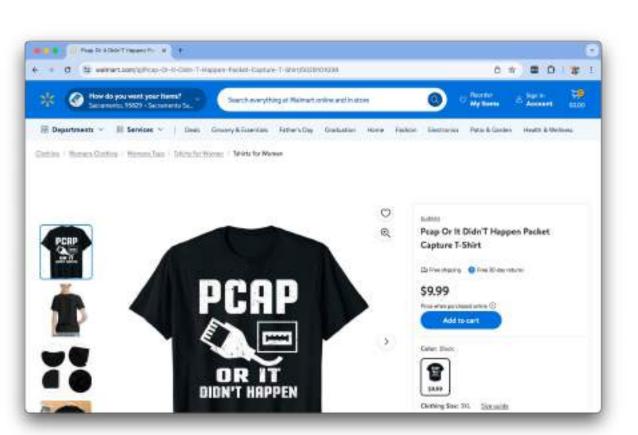
Oct 19, 2024, 09:43 AM · 🕤 · Mona for iPhone



## They're *truthful*, *accessible*, and *reliable*.







#### https://www.walmart.com/ip/Pcap-Or-It-Didn-T-Happen-Packet-Capture-T-Shirt/5029101039



*If you are a user or provide technical support:* 

I regret to inform you that this is the world we've built and it's only going to get worse as time goes on.

*If you are on the receiving end of an IT budget:* 

I am delighted to inform you that this is the world we've built and it's only going to get worse as time goes on.

# This?

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What sources of information are

- Truthful
- Accessible
- Reliable

# This?

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What sources of information are

- Truthful
- Accessible
- Reliable

How about packets, system calls, and logs?