

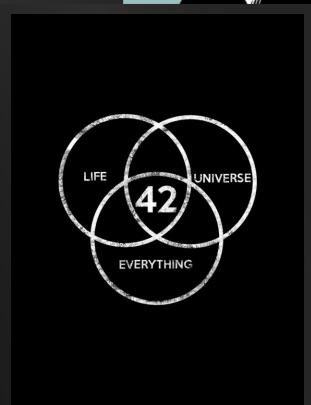
Open Source and Free EDR

John Strand



Why we are here

- Free and Open tools for Endpoint Detection and Response
- There is Free and there is "Free"
- We will not demo all of them
- A shoutout and apology to some vendors... But we have to clear some things up

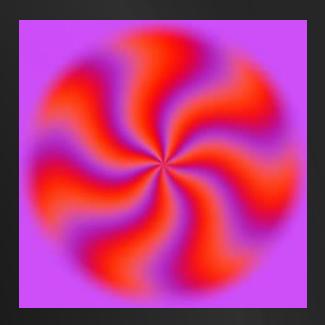




What the hell EDR???



- Endpoint Detection and Response can mean a lot of things.....
- Does it include prevention?
- Is it just the black box flight recorder?
- What about SOAR?
- What about eXtended Detection and Response (XDR)?



What do you see?



Vendors....



Cynet







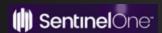






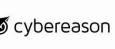






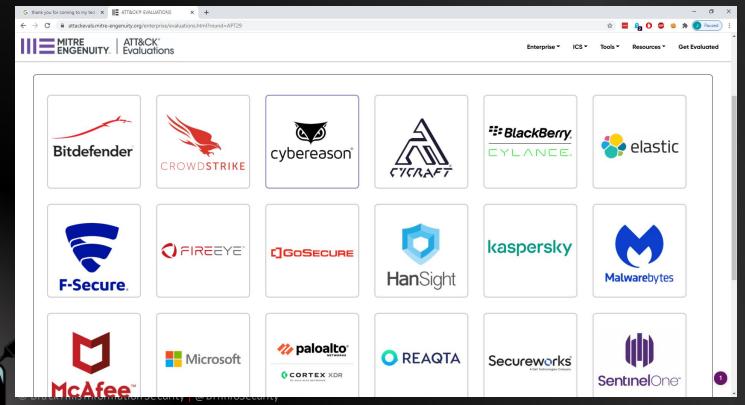






MITRE Evaluations





Also... Vendors







Why EDR?

- Because IR is a nightmare without it
- Quickly get information from multiple sources
- Correlate attack data < GOOD threat intelligence!!
- Because Windows logs suck
 - Not you Sysmon... You cool.







Why free and Open Source?



- I hate vendors that don't have free or Open Source Products
- How do you know if it works? Cool GUI? Trial? They promise?
- Also, many companies can't afford full solutions
 - A quick note on pricing
- You are not paying for what a commercial tool does... You are paying for what the free/OS tools do not provide.









- Not sure... But this one has been around possibly longer than anyone else
- Used for years on Linux systems for Rootkit detection
- Monitors key files and logs
- Now adding in anti-malware features and response
- Can be intimidating to get started, not all that bad
- "Worst selling security book in history"
- Aversion to screenshots......









- Originally one of the more badass inventory systems
- Loved the query language across systems
- Full stack EDR
- Super easy to install, multiple agents
- Data feeds to an ELK stack... Because everything does...
- Easily one of the most asked about tools in my classes
- Just don't want to run a full ELK stack in my labs



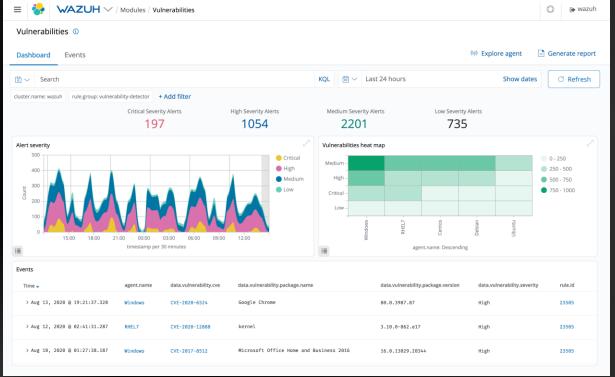
I may be pronouncing it wrong









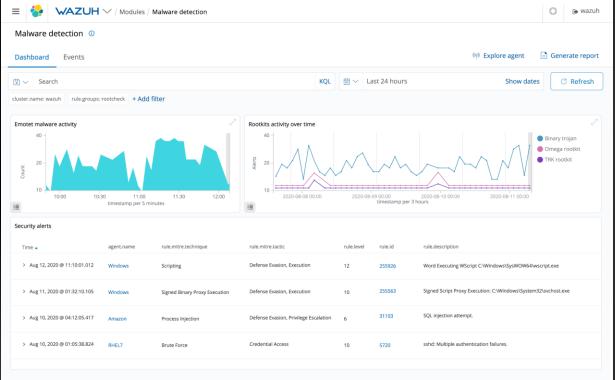










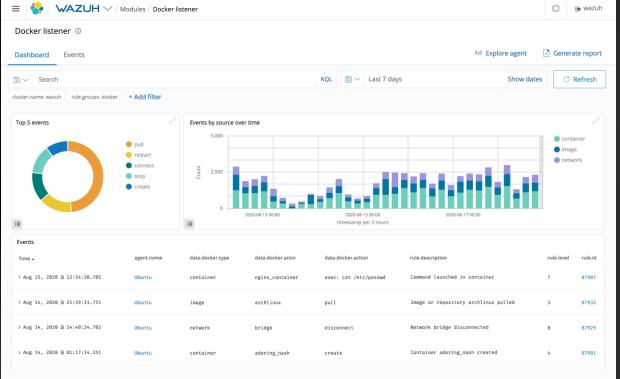






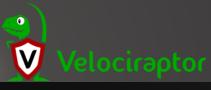






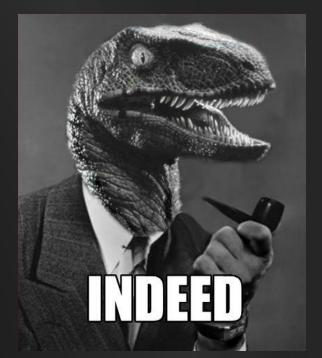








- This is the one we use in my classes
- Setup to pulling data is very, very quick
- Standalone agent and server in one executable
- From the folks that brought us Rekall
- So... They kind of know what they are doing
- No detection and prevention capability
- Great way to complement existing AV/Protection
- Let's do a demo...







Vendors and Free/OS

- A number of vendors are making their agents free/open source
- This is.... Huge.
- Que rant on people using your product before they spend huge amount of cash on them
- Let's talk about Elastic and Comodo



What "Proudly Sucking At Capitalism"

Might look like...







(Formerly Endgame)



- Almost everyone uses ELK
- Many commercial tools use ELK
- Endgame was a solid EDR
- All the "cool kids" use it
 - Sorry Splunk
- Now, they give it away for free*
 - They want the sweet, sweet ELK fees
- Even AMAZON uses ELK!! < -- Too Soon?



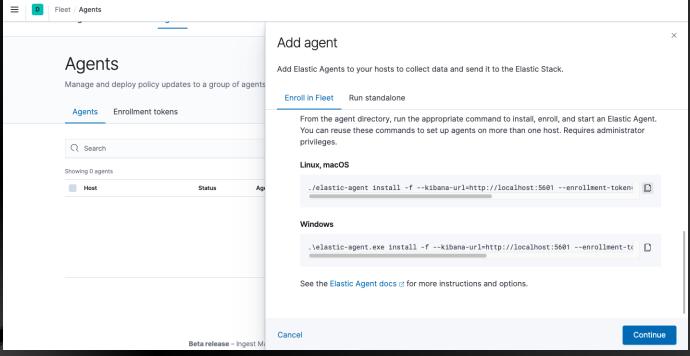






Easy Install





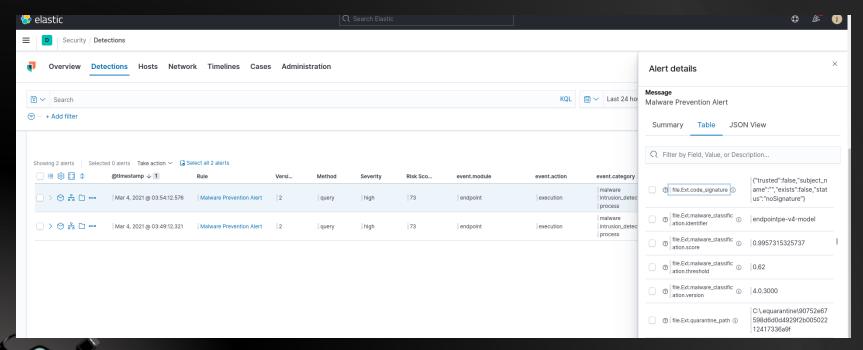






Out of the box... ~5 min





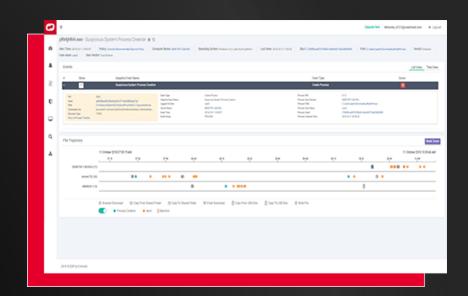








- Did not see this one coming...
- Wow.
- Full source code on Github
- Want to make your product better fast?
- Solid detection and EDR capabilities
- Works best with their server infrastructure
- Can integrate with ELK

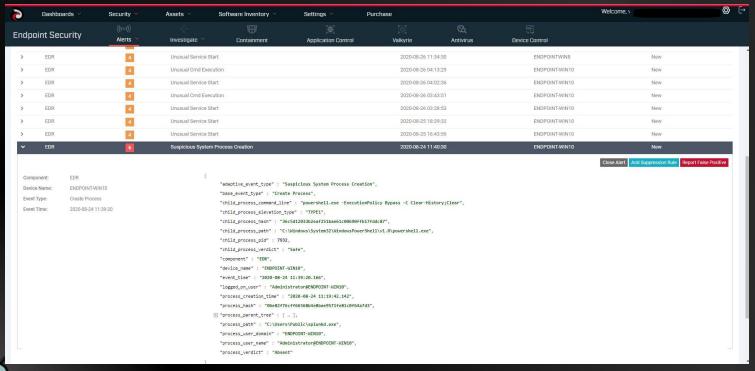






Mad marketing props...





Enhance...



```
"process_hash" : "06e82f76cff66568b4e8bae9571fe81c0f64a7d3"

# "process_parent_tree" : [ ... ],

"process_path" : "C:\Users\Public\splunkd.exe",

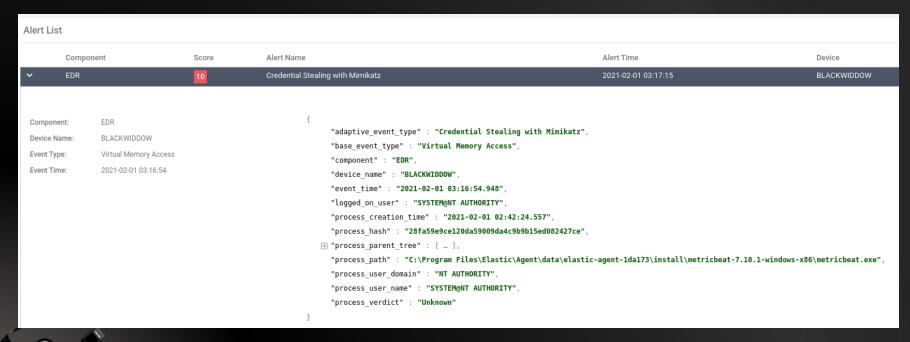
"process_user_domain" : "ENDPOINT-WIN10",

"process_user_name" : "Administrator@ENDPOINT-WIN10",

"process_verdict" : "Absent"
```

Seriously, not a fluke





Conclusions

- There is no reason to not have EDR in your toolbox
- It makes life so much easier in an incident
- There is also no reason to live all YOLOSEC!
 - Sure! Take my hundreds of thousands of dollars without trying your product!
- Possibly, we can push all vendors do be more like <u>Comodo and Elastic?</u>
- Mabey?
- Ok... Probably not.
- Oh... And one more thing...



Be most excellent to each other!









I am going to try and sell you something...







It's ok.. You can leave now if you want.







I too, hate it when the sales pitch is at the start or slipped in middle







Seriously, I am not offended if you don't stay



Questions?





