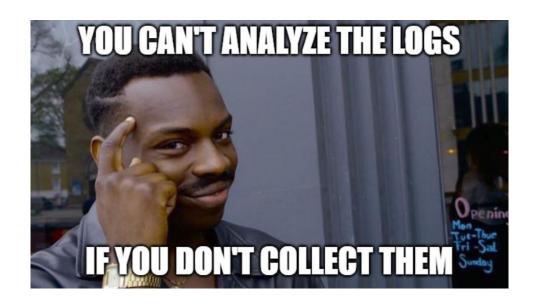
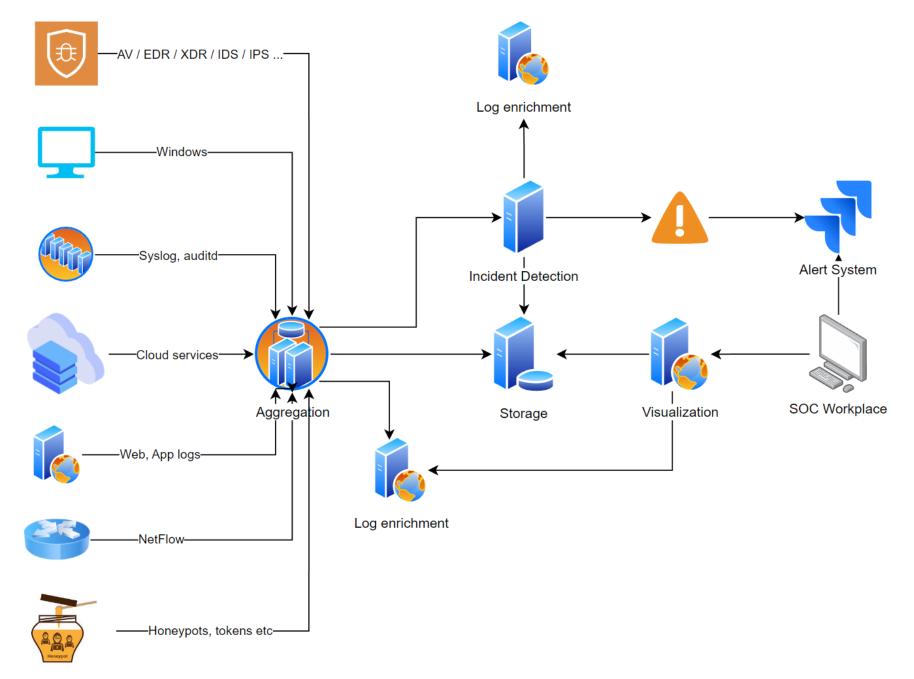


Building a better SIEM Without paying for it

- Log collection and central storage location
- Incident detection through malicious log patterns and log corelation
- Alert aggregation
- Incident investigation
- Compliance
- Non-threat related data analysis and management

Why SIEM?





What SIEM?



Community SIEM offerings



wazuh.



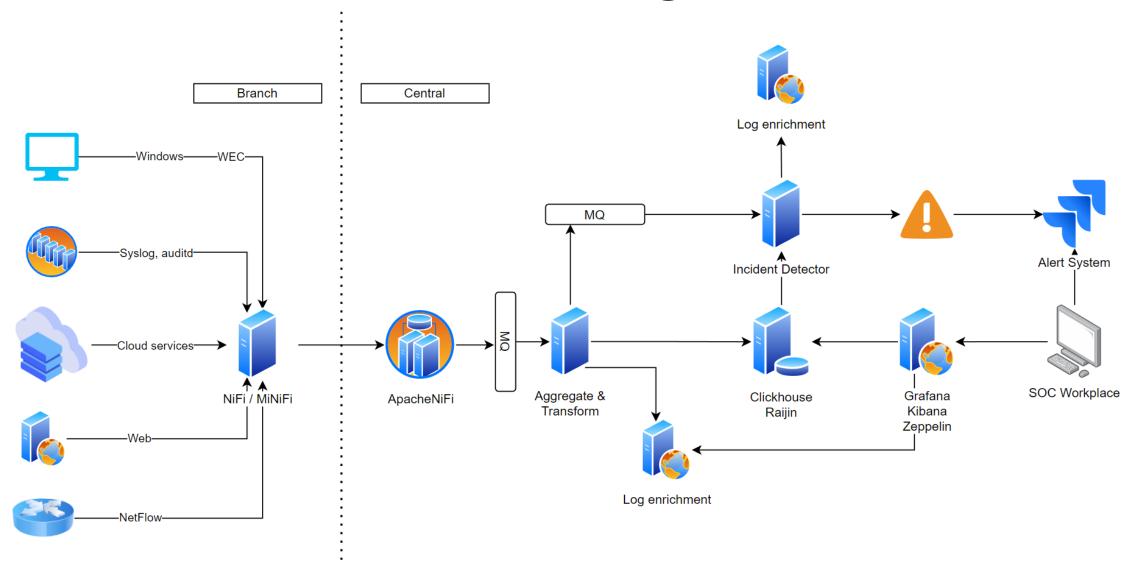




Challenges

- Stick to the vendor with limitations and T&C
- Most useful features are in paid version
- May not support the log format you need
- Elasticsearch DB is very resource consuming
- Partial scaling is difficult
- Collecting logs from remote branches and clients is not straightforward

Agentless SIEM





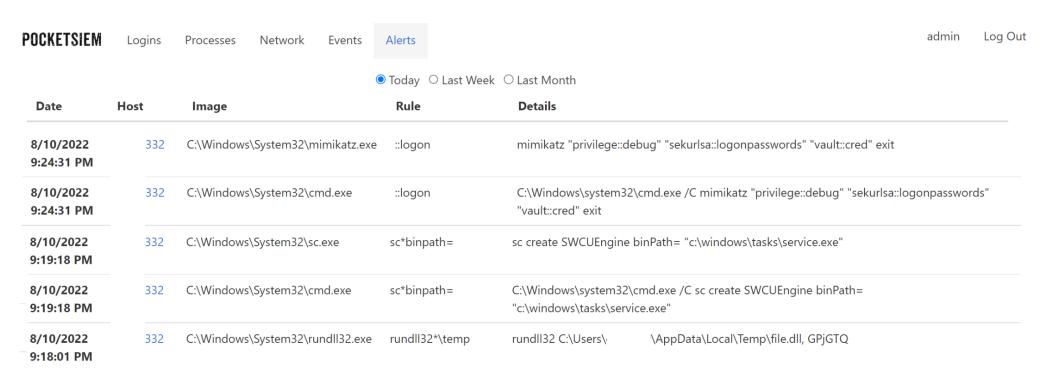
SIEM Detection

- Real-time vs Periodic
- MITRE Attack & Defend mappings
- Public rules (Sigma, Yara etc.)
- Custom pattern and log correlation rules
- Anomaly detection / ML
- TI Platforms (MIPS, Yeti, OpenCTI, ThreatMiner, VirusTotal and a lot more)

POCKETSIEM

Available at: https://github.com/cepxeo/PocketSIEM

- Simplified SIEM functionality
- Collects and processes Sysmon events
- Over 1500 Sigma and custom rules
- For researches and CTFs
- For personal and ad hoc IR



Considerations

- Plan for heavy load at the log aggregation, real-time detection and database write / read points
- Collect logs based on use cases and periodically review
- Map detection rules to MITRE and actualize
- Detection by patterns + correlation + deception + external systems alerts is good combination
- Purple team to test detection and blind spots, Red Team to check IR