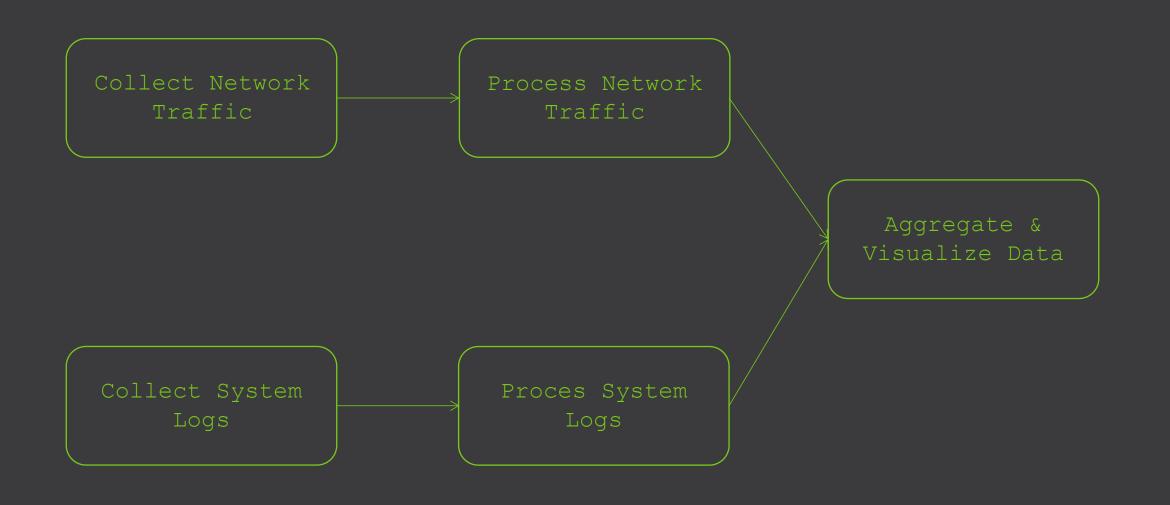




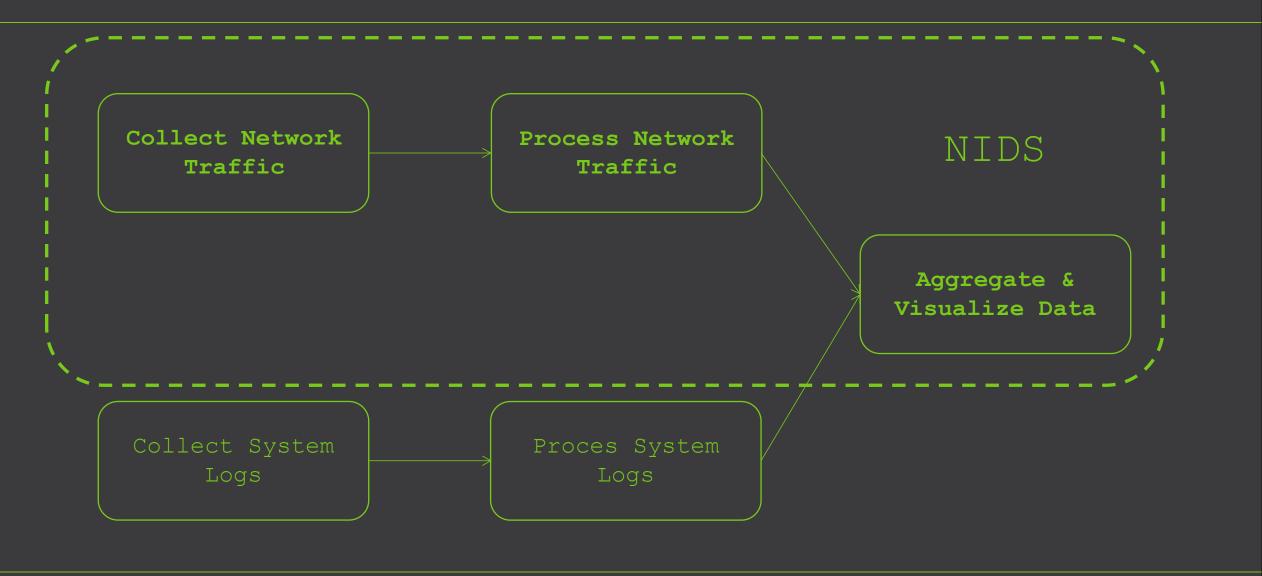
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IDS





IDS





Network IDS (NIDS)

- Netsniff-ng (https://github.com/netsniff-ng/netsniff-ng)
 - Full Packet Capture
- Snort | Suricata (https://www.snort.org/downloads | https://github.com/OISF/suricata)
 - IDS Rules
- Barnyard (https://github.com/firnsy/barnyard2)
 - Parse Snort Unified Binaries
- Bro (Zeek) (https://github.com/bro/bro)
 - Traffic Analysis
 - File Extraction
- PF Ring (https://github.com/ntop/PF_RING)
 - Parallelization



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Snort | Suricata





alert udp \$HOME_NET any -> any 53 (msg:"BLACKLIST DNS request for known bad domain
hacklabg.net"; content:"|08|hacklabg|03|net|00|"; sid:9999999; rev:1;
metadata:created_at 2019_13_01;)

- alert
- udp
- \$HOME NET any
- any 53
- msg: "BLACKLIST DNS request for known bad domain hacklabg.net"
- content:"|08|hacklabg|03|net|00|"



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Bro (Zeek)



- Connections log
- dns/http/ftp/smtp log
- •ssl log
- notice log
- file extraction
- Intel

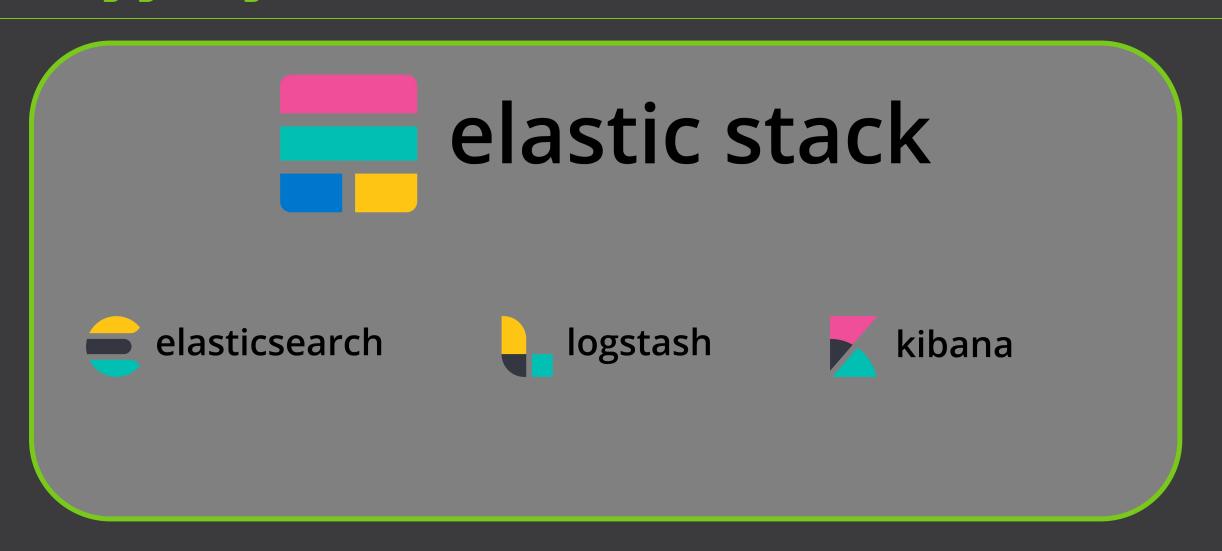


MISP

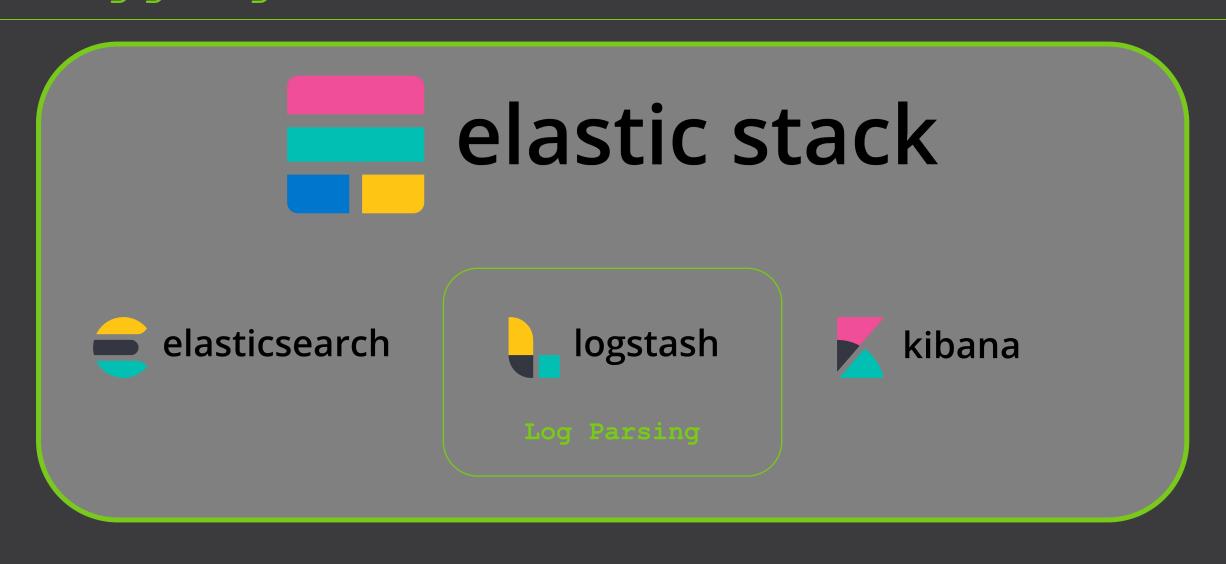


- Malware Information Sharing Platform
 - Store
 - Correlate
 - Share
- API
 - Extract Snort/Suricata Rules
 - Extract Bro Intel





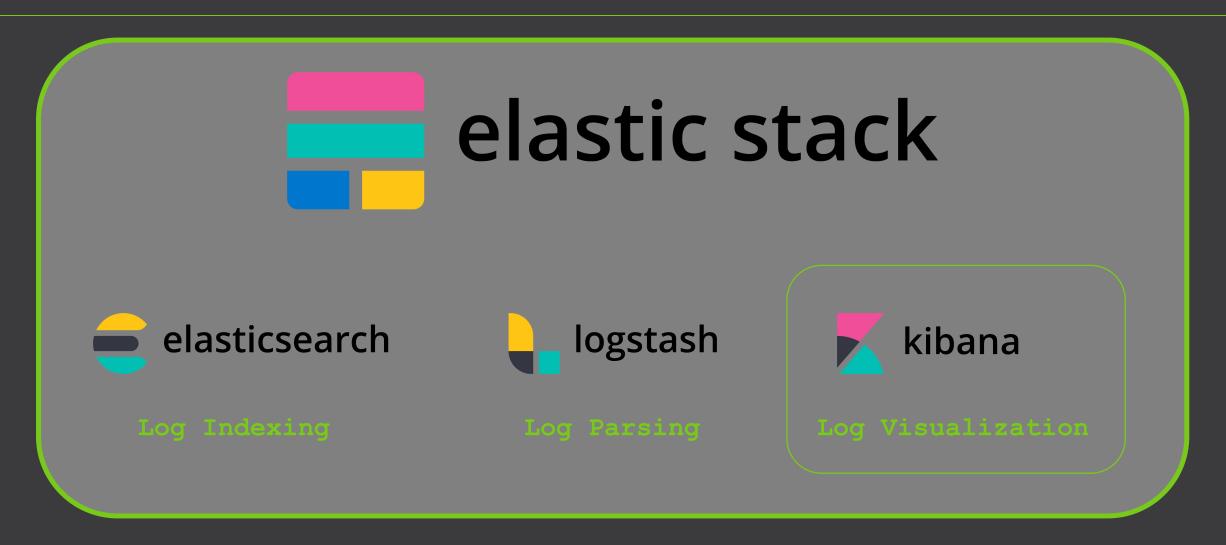














Kibana Dashboards





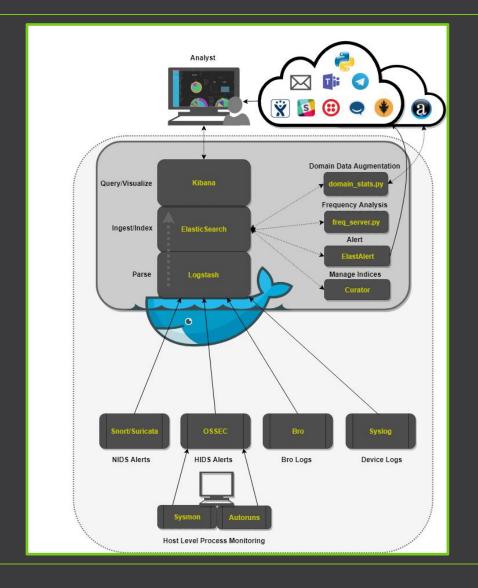
Security Onion



• Linux Distro for IDS

(https://github.com/Security-Onion-Solutions/security-onion)

- Ubuntu Based
- Easy to configure
- Scalable





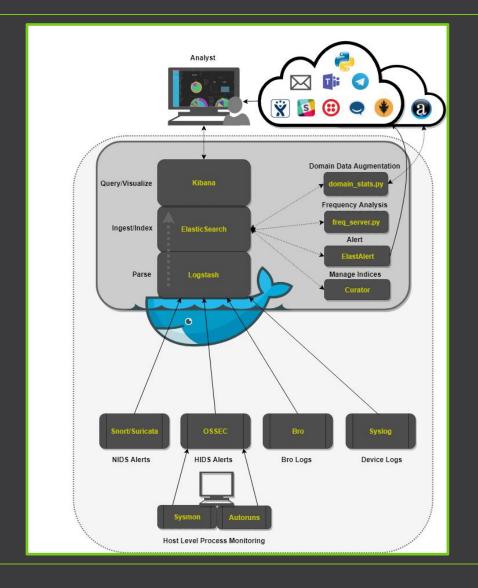
Security Onion



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Security Onion - Node Types



- Master Server
 - Elasticsearch, Logstash, Kibana, Curator, Elastalert, Redis, OSSEC, Squild
- Forward Node (Sensor Only)
 - Bro, Snort/Suricata, Netsniff-NG, OSSEC, Syslog-NG
- Heavy Node
 - Elasticsearch, Logstash, Curator, Bro, Snort/Suricata, Netsniff-NG, OSSEC, Syslog-NG
- Storage Node
 - Elasticsearch, Logstash, Curator, OSSEC



Security Onion - Configurations



- Standalone
- Distributed
 - Master Server + Heavy Nodes
- Heavy Distributed
 - Master Server + Forward Nodes + Storage Nodes





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