

GRID-SIEM SD GROUP 29 SPRING '24

Trent Bickford

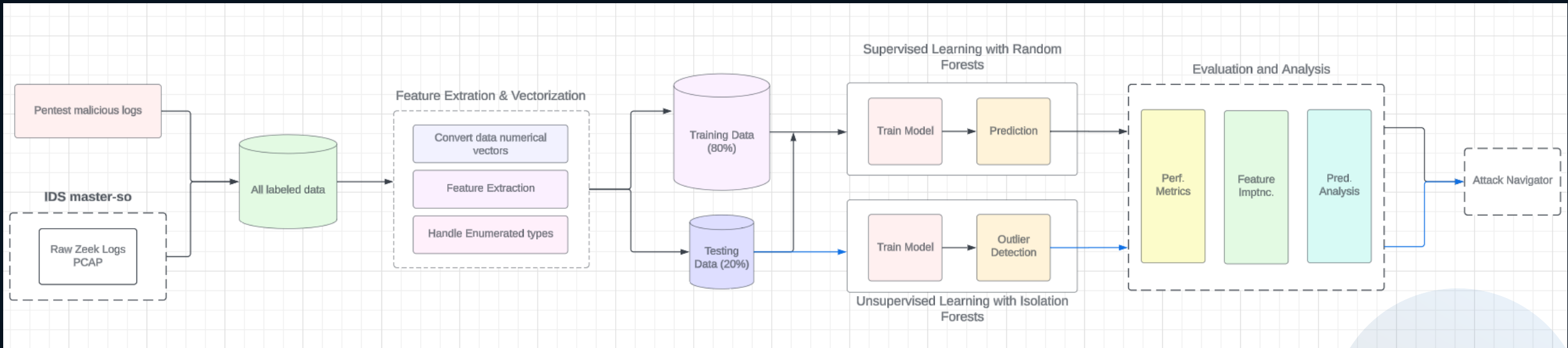
Westin Chamberlain

Ella Cook

Daniel Ocampo

ML Work

- Added a few methods to adapt the script so it can unzip and ingest multiple logs at a time
 - Trent helped with a multi-thread implementation - the logs are now unzipped efficiently
 - Still working to make the ingestion methods more efficient
 - Currently debugging and implementing chunk-based processing because of the large amount of data in each log
- Next steps
 - Finish the ingestion method
 - Check accuracy across multiple logs
 - Eventually integrate output to Navigator if time permits

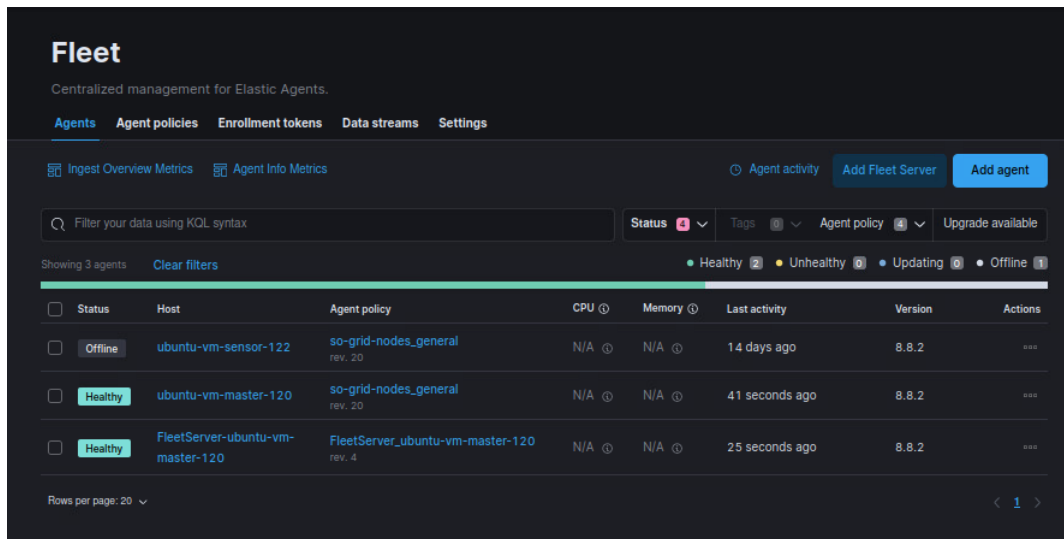


Security Onion Work

Got into the Kibana docker, but no Suricata or Zeek docker that I could find

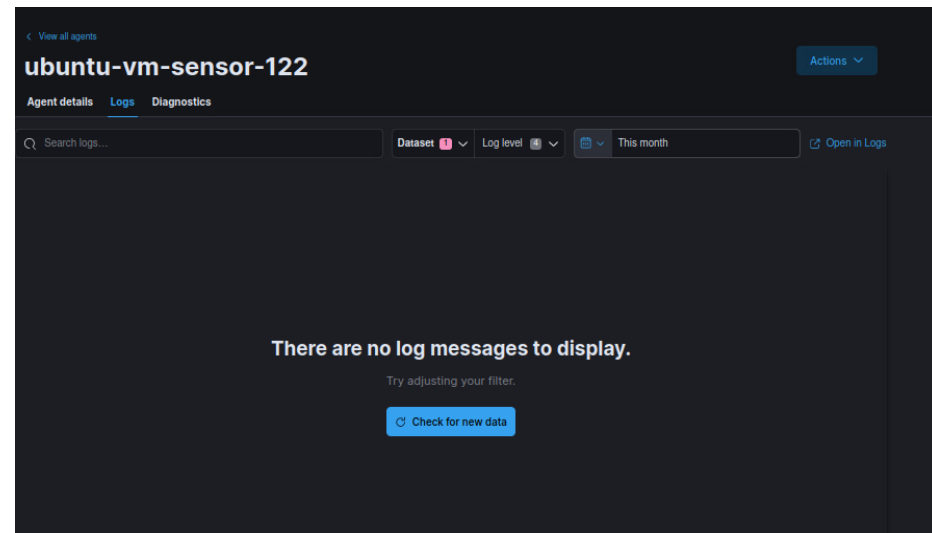
```
kibana@kibana:~$ ls
LICENSE.txt NOTICE.txt README.txt bin config custdashboards dashboards
kibana@kibana:~$ ls node
LICENSE bin include lib share
kibana@kibana:~$ exit
exit
(base) ubuntu@ubuntu-vm-master-120:~$ sudo docker exec -it so-kibana bash
```

Think Elastic Fleet may be the problem, so in Kibana looked at the fleet for our environment



The screenshot shows the Elastic Fleet management interface. At the top, it says "Fleet" and "Centralized management for Elastic Agents." Below this are tabs for "Agents", "Agent policies", "Enrollment tokens", "Data streams", and "Settings". There are also buttons for "Add Fleet Server" and "Add agent". A search bar is present with the text "Filter your data using KQL syntax". Below the search bar, there are filters for "Status" (Healthy, Unhealthy, Updating, Offline), "Tags", "Agent policy", and "Upgrade available". The main content area shows a table of agents with columns for Status, Host, Agent policy, CPU, Memory, Last activity, Version, and Actions. The table lists three agents: one Offline (ubuntu-vm-sensor-122), one Healthy (ubuntu-vm-master-120), and one Healthy (FleetServer-ubuntu-vm-master-120).

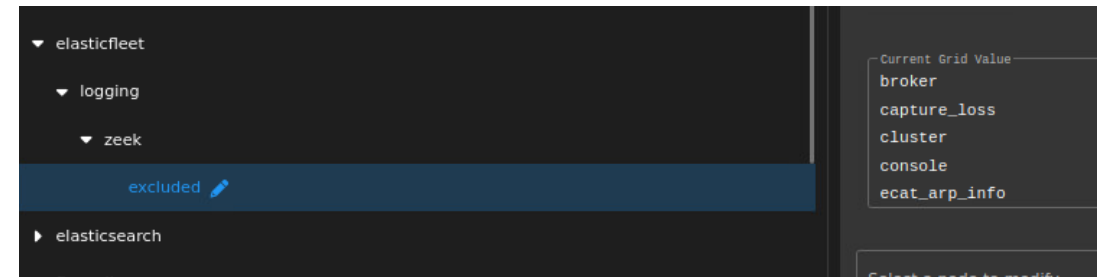
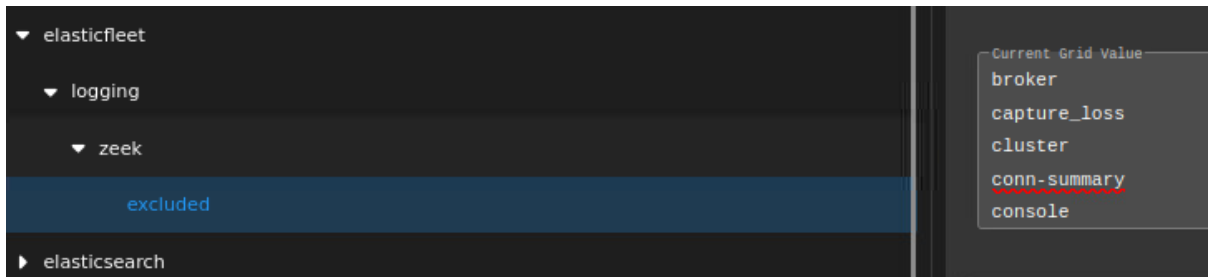
Status	Host	Agent policy	CPU	Memory	Last activity	Version	Actions
Offline	ubuntu-vm-sensor-122	so-grid-nodes_general rev. 20	N/A	N/A	14 days ago	8.8.2	...
Healthy	ubuntu-vm-master-120	so-grid-nodes_general rev. 20	N/A	N/A	41 seconds ago	8.8.2	...
Healthy	FleetServer-ubuntu-vm-master-120	FleetServer_ubuntu-vm-master-120 rev. 4	N/A	N/A	25 seconds ago	8.8.2	...



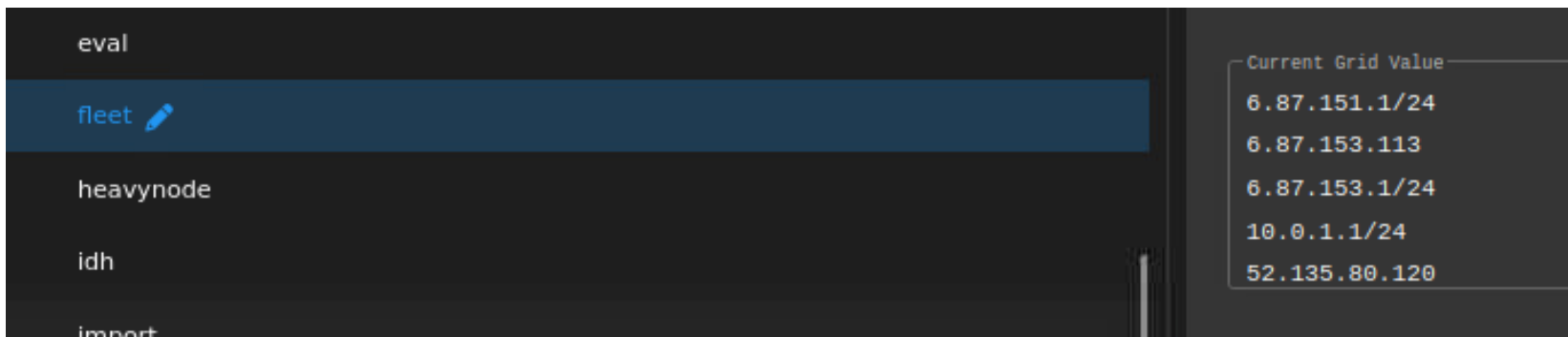
The screenshot shows the Elastic Agent details page for "ubuntu-vm-sensor-122". At the top, it says "View all agents" and "Actions". Below this are tabs for "Agent details", "Logs", and "Diagnostics". There is a search bar for logs and filters for "Dataset", "Log level", and "This month". The main content area shows a message: "There are no log messages to display. Try adjusting your filter." Below this message is a button labeled "Check for new data".

Security Onion Work

ElasticFleet removed exclusions known_hosts, known_services, conn-summary

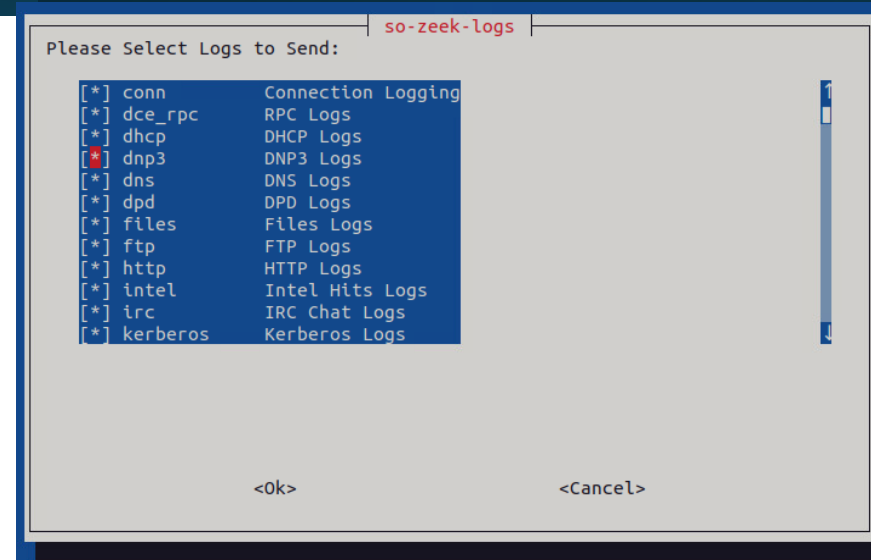


Also added the IPs to fleet since they were not already in there



Security Onion Work

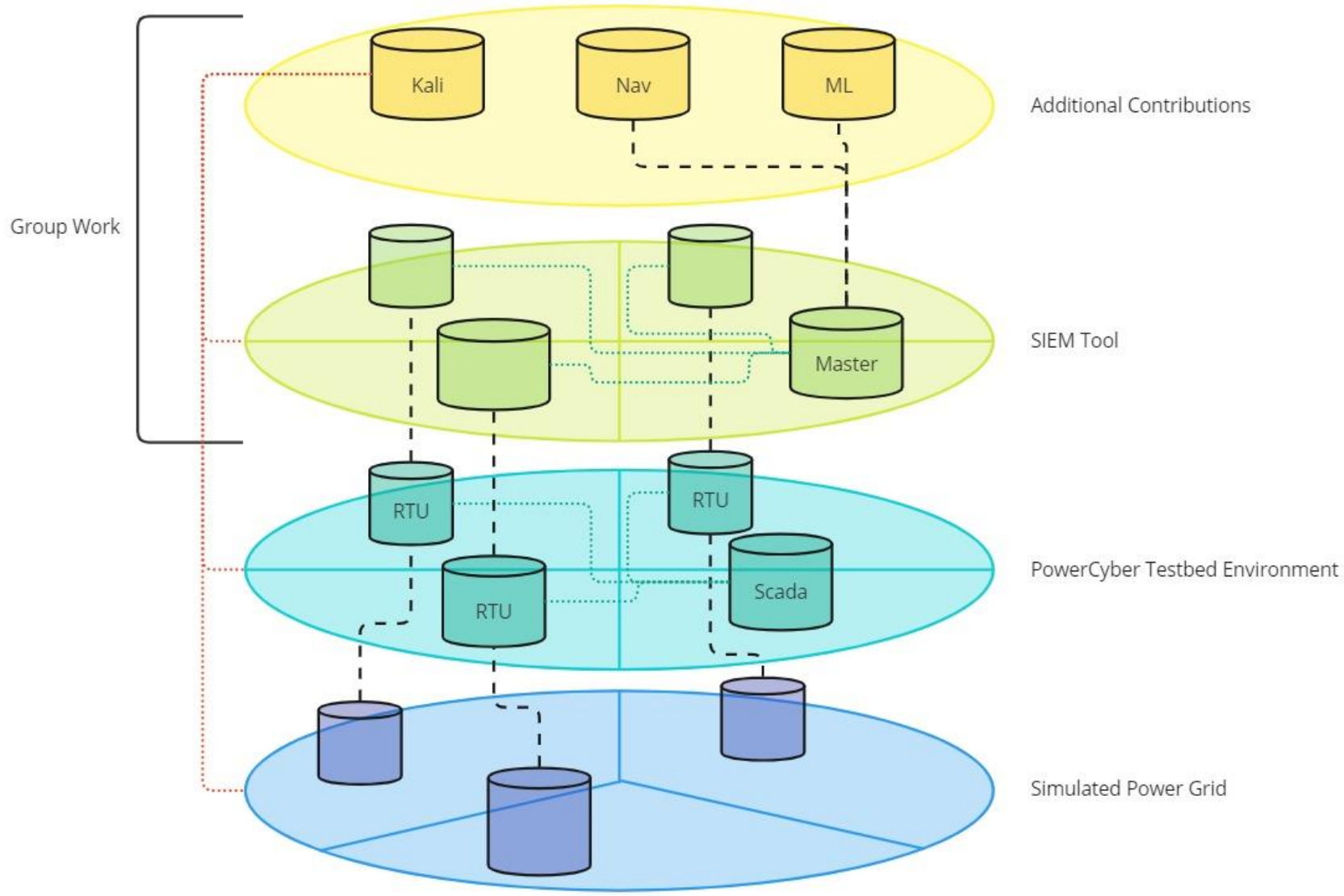
- Checked that Zeek.conn logs are included in the logs to be sent over in the rules on the manager
- Added all the sensors to Elastic Fleet and made them all Elastic Agents



Status	Host	Agent policy	CPU
<input type="checkbox"/> Inactive	ubuntu-vm-sensor-122	so-grid-nodes_general rev. 20 ⚠ Out-of-date	N/A ⓘ
<input type="checkbox"/> Healthy	ubuntu-vm-master-120	so-grid-nodes_general rev. 38	N/A ⓘ
<input type="checkbox"/> Healthy	FleetServer-ubuntu-vm-master-120	FleetServer_ubuntu-vm-master-120 rev. 4	N/A ⓘ

Showing 5 agents Clear filters

Status	Host	Agent policy	CPU
<input type="checkbox"/> Healthy	ubuntu-vm-sensor-111	so-grid-nodes_general rev. 38	N/A ⓘ
<input type="checkbox"/> Healthy	ubuntu-vm-sensor-122	so-grid-nodes_general rev. 38	N/A ⓘ
<input type="checkbox"/> Healthy	ubuntu-vm-sensor-113	so-grid-nodes_general rev. 38	N/A ⓘ
<input type="checkbox"/> Healthy	ubuntu-vm-master-120	so-grid-nodes_general rev. 38	N/A ⓘ
<input type="checkbox"/> Healthy	FleetServer-ubuntu-vm-master-120	FleetServer_ubuntu-vm-master-120 rev. 4	N/A ⓘ

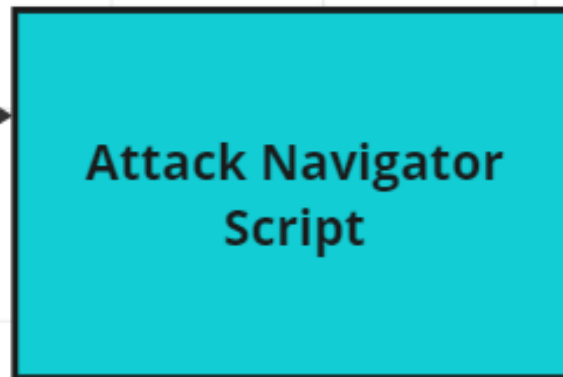
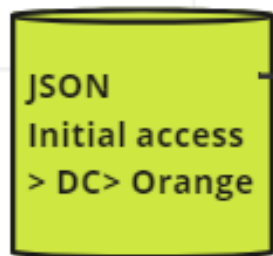




Refresh rate {5m,10m}



Attack Classification



Attack Navigator Export File

Attack Progress

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- Created a Document for detailing the attacks I do
 - So far have ping attack and internal scripting attack
 - Getting ready to attempt pre-made scripts on the RTU stations to affect the power grid