

ELASTIC SIEM FUNDAMENTALS

An Elastic Training Course



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Course: ELASTIC SIEM FUNDAMENTALS

Version 7.5.1

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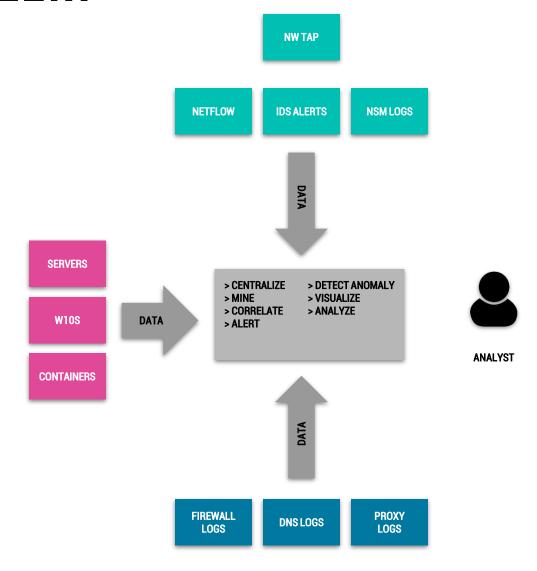


LESSON 1 ELASTIC SIEM UI





PROBLEM





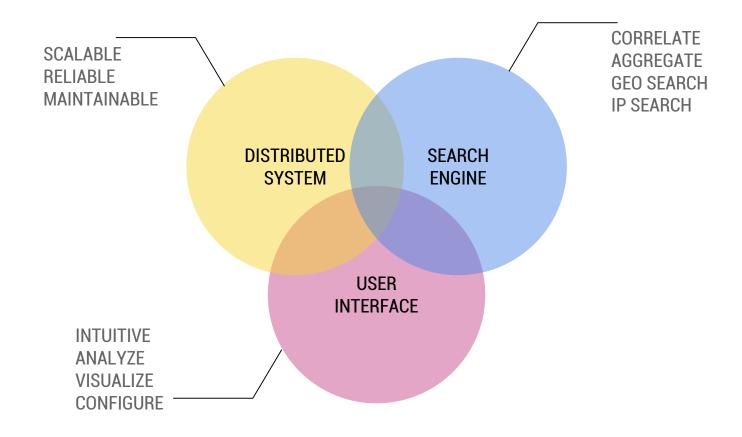
REQUIREMENTS



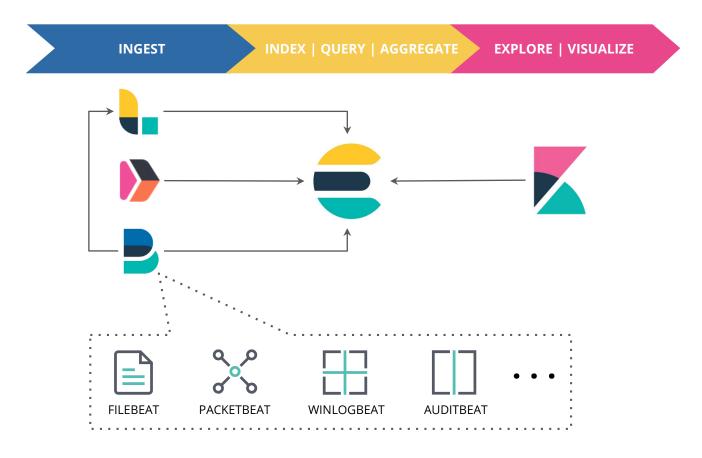




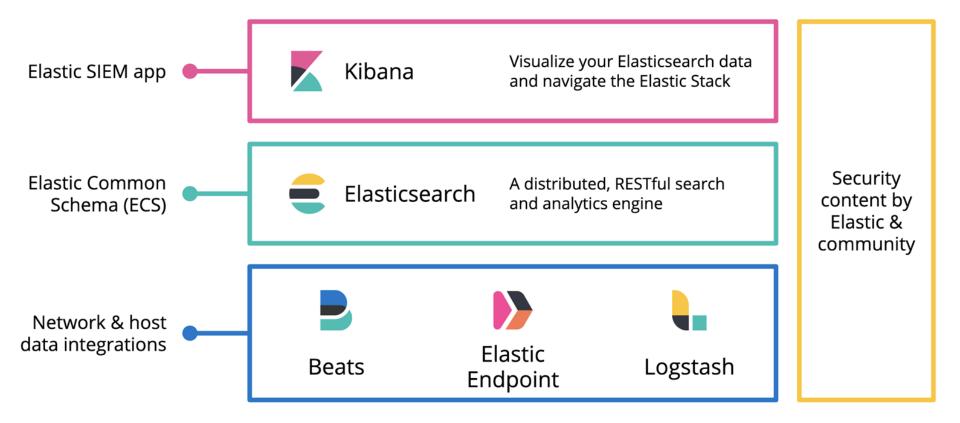
REQUIREMENTS



ELASTIC STACK OVERVIEW



ELASTIC SIEM OVERVIEW





REVIEW - ELASTIC SIEM UI





SUMMARY

- Being able to centralize, correlate, analyze, and aggregate security events from disparate sources is the essence of SIEM's purpose
- Elastic SIEM is built on top of Elastic stack by providing a formal schema, powerful set of UI elements for analyzing security events and growing number of pre_built machine learning jobs
- Elastic SIEM Kibana UI includes an overview page, host page, network page and timeline tool

- 1. The three ingest layer components of Elastic Stack that provides network and host data integration for Elastic SIEM are Beats, Logstash and ______
 - a. Alerting
 - b. Elastic Machine Learning
 - c. Elastic Endpoint Security
 - d. Kibana
- 1. Which of the following tabs can be used to investigate uncommon processes?
 - a. Overview
 - b. Network
 - c. Host
 - d. Timelines
- In Timeline, if you place the element "user.name": "bgates" directly to the right "os.family": "windows" what will the resulting relationship be?
 - a. "user.name": "bgates" AND "os.family": "windows"
 - b. No Relation
 - c. "user.name": "bgates" OR "os.family": "windows"
 - d. "user.name": "bgates" XOR "os.family": "windows"



LESSON 1

LAB - ELASTIC SIEM UI





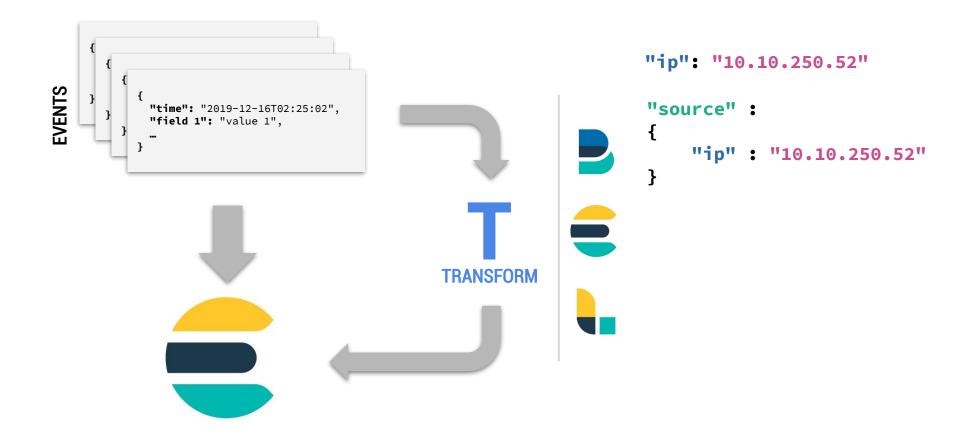


LESSON 2 GETTING SIEM DATA IN

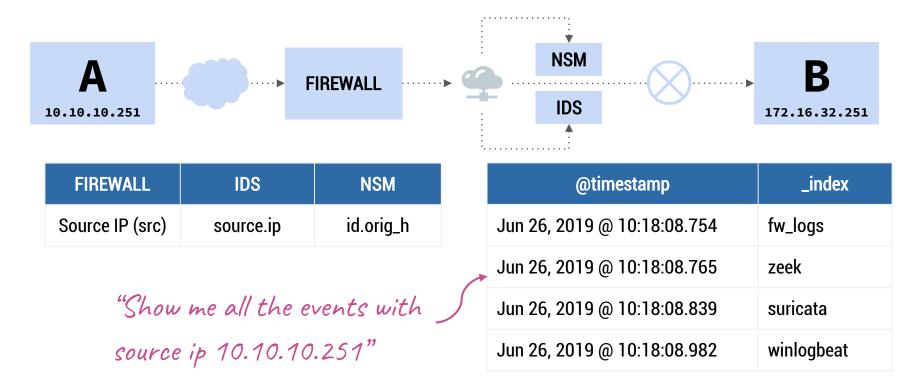




SCHEMA



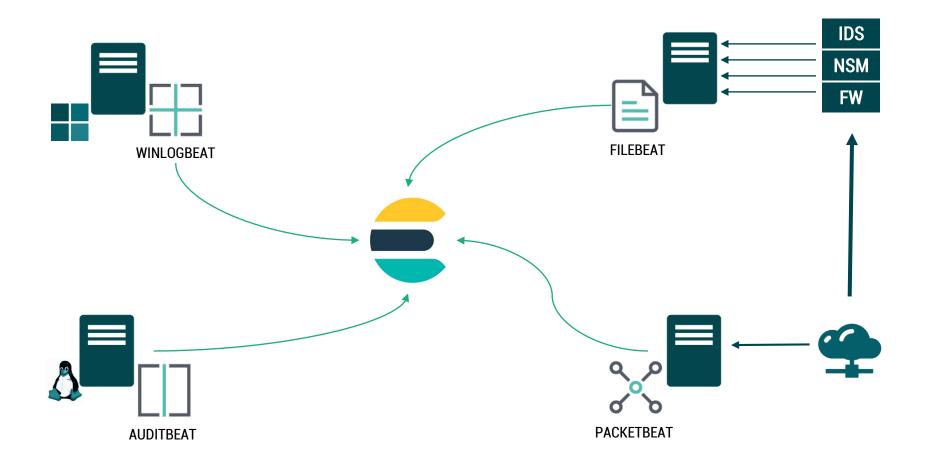
ELASTIC COMMON SCHEMA



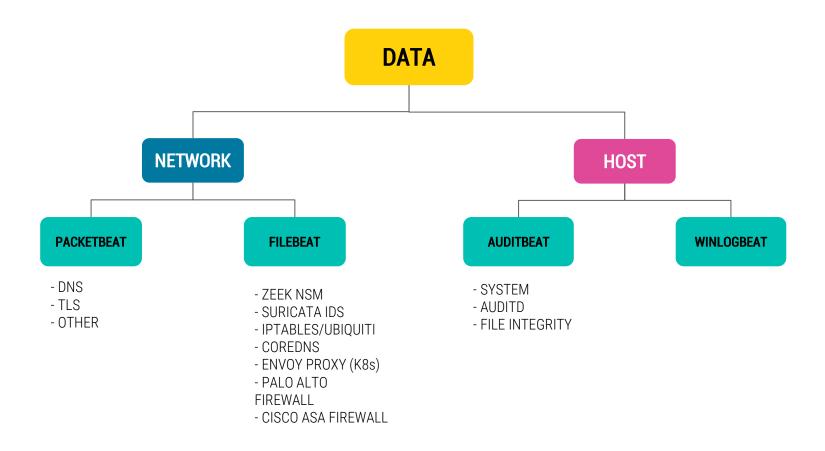
https://github.com/elastic/ecs



BEATS



RIGHT TOOL FOR THE DATA





REVIEW - GETTING SIEM DATA IN





SUMMARY

- ECS defines a common set of fields to be used when storing event data in Elasticsearch, such as logs and metrics
- All beats can ship data to elasticsearch in ecs format
- Packetbeat and Filebeat are helpful in ingesting logs and network data into Elastic SIEM
- Auditbeat and Winlogbeat are used to ship host data into Elastic SIEM

- 1. Every event should contain a timestamp.
 - a. True
 - b. False
- 1. Beats installed using .deb or .rpm distribution can be configured using the <beat_name>.yml file located in which of the following?
 - a. /usr/share/<beat_name>/<beat_name>.cfg
 - b. /etc/<beat_name>/<beat_name>.cfg
 - c. /etc/<beat_name>/<beat_name>.yml
 - d. /home/<user>/<beat_name>/config/<beat_name>.yml
- 1. Which command would you use to turn on a filebeat module?
 - a. filebeat <module_name> on
 - b. filebeat enable <module_name>
 - c. filebeat <module_name> enable
 - d. filebeat -e <module_name>



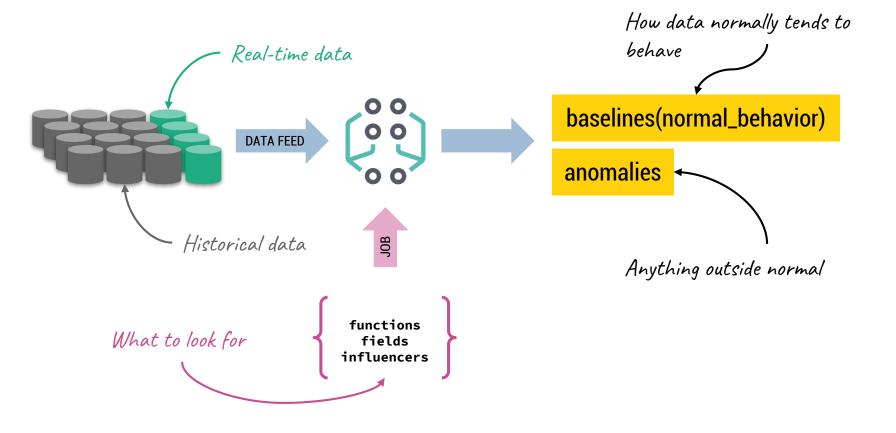


LESSON 3 ANOMALY DETECTION

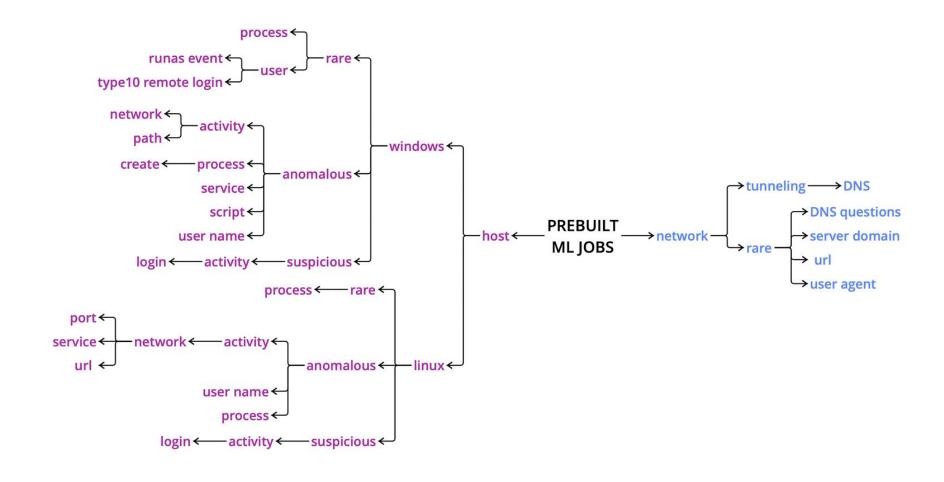




ANOMALY DETECTION IN A NUTSHELL



OVERVIEW OF PREBUILT JOBS





REVIEW - ANOMALY DETECTION





SUMMARY

- Anomaly detection can be used to analyze time series data by creating accurate baselines of normal behavior and identifying anomalous patterns in your dataset
- The SIEM app comes with prebuilt machine learning anomaly detection jobs for automatically detecting host and network anomalies
- To gain clearer insights into real threats, it is possible to tune the anomaly results

- Machine Learning functionality is available throughout the SIEM app for which of the following deployments
 - a. Basic
 - b. Free Trial
 - c. Platinum Subscription
 - d. Elastic Cloud
- 2. Anomalies tab that shows details of detected anomalies is available in which of the following pages within the SIEM app?
 - a. Overview
 - b. Hosts
 - c. Network
 - d. Timelines
- 1. Results of anomaly detection can never be improved.
 - a. True
 - b. False

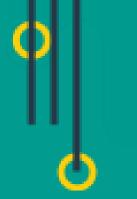


LESSON 3

LAB - ANOMALY DETECTION







QUIZ ANSWERS

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 - b. False



Thank You!

Please complete the online survey.

