DEVSECCIOS BOOTCAMP

BUILDING RUGGED SOFTWARE

YEAR ONE / WEEK FOUR/ LESSON ONE

Agenda

- Splunk Basics
 - Why Splunk?
 - What is an index
 - Data classification
- Splunk commands



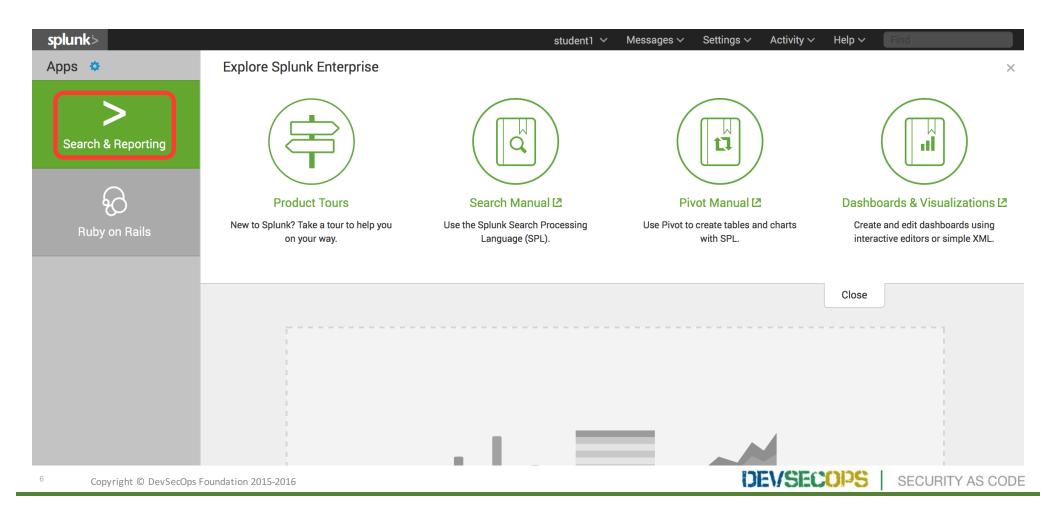
- Why Splunk?
 - De facto log aggregation and analysis tools
 - Enables us to
 - monitor for security threats across disparate environment
 - analyze and identify anomalous behavior
 - automate initiation of incident response procedures
 - build metrics to visualize our resource
 - Correlate data streams to discover meaningful security events

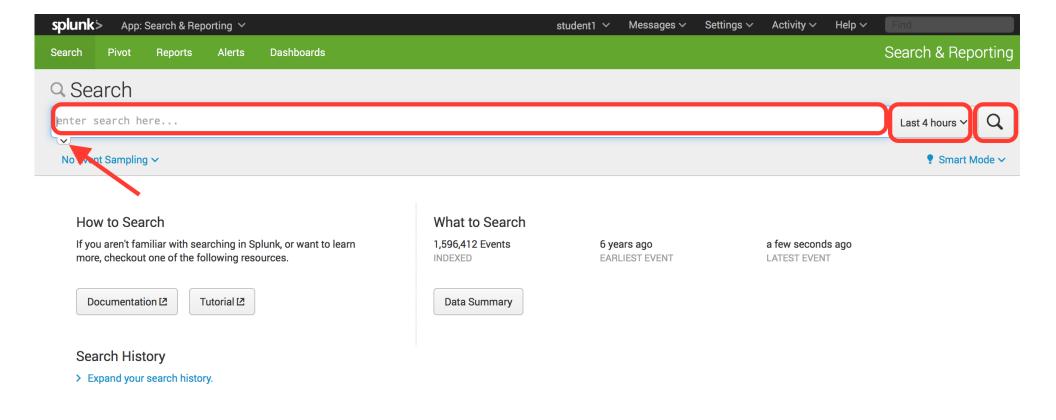
- What is an Index?
 - A bucket of data, commonly logs
 - Default index is main, e.g., index=main
- What can you do with an index?
 - Separate and query data type or classification
 - Access controls to data
 - Retention policy, by time or size
 - Performance tuning, sharding

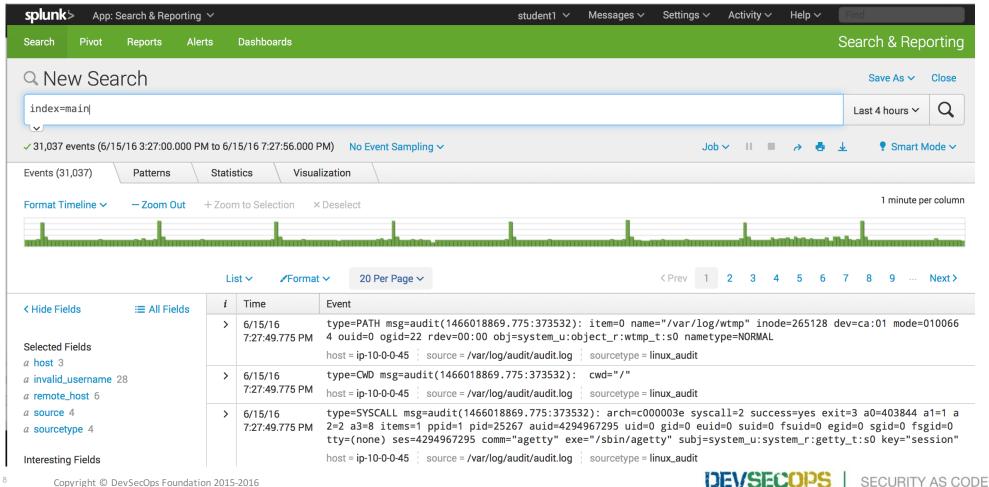
Data classification

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- Index data bucket
- Source where the data came from, e.g., /var/log/messages
- Sourcetype the data type, often auto detected by Splunk
 - Splunk will attempt to automatically detect the source type based on predefined patterns







Splunk Commands

- Splunk Search
 - Retrieves events from indexes
 - Filters results of a previous search
 - Uses Search Processing Language
 - Implicit command when a search is performed or can be used further filter search results, e.g., index=main sourcetype=linux_secure | search field=value

Splunk Commands

- Field Extraction
 - Key value pairs extracted by Splunk during a search
 - Field creation by custom field extraction commands
 - Commands used to perform field extraction: rex, extract, stats, etc.



Questions?



Lab 1

- If you weren't here last week team up with someone who was or quickly do week 3 lab 2 (get AWS credentials from Instructor)
- If you were here last week:
 - Login into AWS, start your instance and note your public IP address (it may have changed)
 - SSH into your instance cd into railsgoat directory and run
 - export RAILS_ENV=mysql
 - bundle exec rake db:setup