Search Under the Hood

This eLearning course gives students additional insight into how Splunk processes searches. Students will learn about Splunk architecture, how components of a search are broken down and distributed across the pipeline, and how to troubleshoot searches when results are not returning as expected.

Course Topics

▪ Understanding Splunk architecture
▪ Understanding how search terms are tokenized
▪ Using streaming and non-streaming commands
▪ Using troubleshooting commands and functions

Prerequisite Knowledge

Recommended:
Intro to Splunk eLearning course

Required:
none

Course Format
eLearning

Course Objectives

Topic 1 – Investigating Searches
▪ Use the Search Job Inspector to examine how a search was processed and troubleshoot performance
▪ Use SPL commenting to help identify and isolate problems

Topic 2 – Splunk Architecture
▪ Understand the role of search heads, indexers, and forwarders in a Splunk deployment
▪ Understand how the components of a bucket (.tsidx and journal.gz files) are used
▪ Understand how bloom filters are used to improve search speed

Topic 3 – Streaming and Non-Streaming Commands
▪ Describe the parts of a search string
▪ Understand the use of centralized vs. distributable commands
▪ Create more efficient searches

Topic 4 – Breakers and Segmentation
▪ Understand how segmenters are used in Splunk
▪ Use lispy to reduce the number of events read from disk

Topic 5 – Commands and Functions for Troubleshooting
▪ Using the fieldsummary command
▪ Using the makeresults command
▪ Using informational functions with the eval command
  o the isnull function
  o the typeof function

About Splunk Education

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