Search Processing Language

A Splunk search is a series of commands and arguments. Commands are chained together with a pipe "|" character to indicate that the output of one command feeds into the next command on the right.

```
search | command1 argument1 |
command2 argument2 | ...
```

At the start of the search pipeline, is an implied search command to retrieve events from the index. Search requests are written with keywords, quoted phrases, Boolean expressions, wildcards, field name/value pairs, and comparison expressions. The AND operator is implied between search terms. For example:

```
sourcetype=access_combined error |
top 5 uri
```

This search retrieves indexed web activity events that contain the term "error". For those events, it returns the top 5 most common URI values.

Search commands are used to filter unwanted events, extract more information, calculate values, transform, and statistically analyze the indexed data. Think of the search results retrieved from the index as a dynamically created table. Each indexed event is a row. The field values are columns. Each search command redefines the shape of that table. For example, search commands that filter events will remove rows, search commands that extract fields will add columns.

Time Modifiers

You can specify a time range to retrieve events inline with your search by using the `latest` and `earliest` search modifiers. The relative times are specified with a string of characters to indicate the amount of time (integer and unit) and an optional "snap to" time unit. The syntax is:

```
[+|-]<integer><unit>@<snap_time_
unit>
```

The search "`error earliest=-1d@d latest=-1h@h`" retrieves events containing "error" that occurred yesterday snapping to the beginning of the day (00:00:00) and through to the most recent hour of today, snapping on the hour.

The snap to time unit rounds the time down. For example, if it is 11:59:00 and you snap to hours (@h), the time used is 11:00:00 not 12:00:00. You can also snap to specific days of the week using @w0 for Sunday, @w1 for Monday, and so on.

Subsearches

A subsearch runs its own search and returns the results to the parent command as the argument value. The subsearch is run first and is contained in square brackets. For example, the following search uses a subsearch to find all syslog events from the user that had the last login error:

```
sourcetype=syslog [ search login
error | return 1 user ]
```

Optimizing Searches

The key to fast searching is to limit the data that needs to be pulled off disk to an absolute minimum. Then filter that data as early as possible in the search so that processing is done on the minimum data necessary.

Partition data into separate indexes, if you will rarely perform searches across multiple types of data. For example, put web data in one index, and firewall data in another.

Limit the time range to only what is needed. For example `-1h` not `-1w`, or `earliest=-1d`.

Search as specifically as you can. For example, `fatal error` not `*error*`.

Filter out results as soon as possible before calculations. Use field-value pairs, before the first pipe. For example, `>ERROR status=404 |...` instead of `>ERROR | search status=404...`. Or use filtering commands such as `where`.

Filter out unnecessary fields as soon as possible in the search.

Postpone commands that process over the entire result set (non-streaming commands) as late as possible in your search. Some of these commands are: `dedup`, `sort`, and `stats`.

Use post-processing searches in dashboards.

Use summary indexing, and report and data model acceleration features.

Machine Learning Commands

The Machine Learning Toolkit delivers additional SPL commands that you can use to apply machine learning to your data. Find out more in the Machine Learning Quick Reference Guide.

Common Search Commands

Command	Description
chart/ timechart	Returns results in a tabular output for (time-series) charting.
dedup	Removes subsequent results that match a specified criterion.
eval	Calculates an expression. See COMMON EVAL FUNCTIONS.
fields	Removes fields from search results.
head/tail	Returns the first/last N results.
lookup	Adds field values from an external source.
rename	Renames a field. Use wildcards to specify multiple fields.
rex	Specifies regular expression named groups to extract fields.
search	Filters results to those that match the search expression.
sort	Sorts the search results by the specified fields.
stats	Provides statistics, grouped optionally by fields. See COMMON STATS FUNCTIONS.
metstats	Similar to stats but used on metrics instead of events.
table	Specifies fields to keep in the result set. Retains data in tabular format.
top/rare	Displays the most/least common values of a field.
transaction	Groups search results into transactions.
where	Filters search results using eval expressions. Used to compare two different fields.

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Splunk Search Reference Guide

Kyle Smith

Splunk Search Reference Guide:

Mastering Splunk James Miller,2014-12-17 This book is for those Splunk developers who want to learn advanced strategies to deal with big data from an enterprise architectural perspective You need to have good working knowledge of Splunk Splunk Operational Intelligence Cookbook Josh Diakun,Paul R Johnson,Derek Mock,2016-06-08 Over 70 practical recipes to gain operational data intelligence with Splunk Enterprise About This Book This is the most up to date book on Splunk 6 3 and teaches you how to tackle real world operational intelligence scenarios efficiently Get business insights using machine data using this easy to follow guide Search monitor and analyze your operational data skillfully using this recipe based practical guide Who This Book Is For This book is intended for users of all levels who are looking to leverage the Splunk Enterprise platform as a valuable operational intelligence tool The recipes provided in this book will appeal to individuals from all facets of business IT security product marketing and many more Also existing users of Splunk who want to upgrade and get up and running with Splunk 6 3 will find this book invaluable What You Will Learn Use Splunk to gather analyze and report on data Create dashboards and visualizations that make data meaningful Build an operational intelligence application with extensive features and functionality Enrich operational data with lookups and workflows Model and accelerate data and perform pivot based reporting Build real time scripted and other intelligence driven alerts Summarize data for longer term trending reporting and analysis Integrate advanced JavaScript charts and leverage Splunk s API In Detail Splunk makes it easy for you to take control of your data and with Splunk Operational Cookbook you can be confident that you are taking advantage of the Big Data revolution and driving your business with the cutting edge of operational intelligence and business analytics With more than 70 recipes that demonstrate all of Splunk s features not only will you find quick solutions to common problems but you ll also learn a wide range of strategies and uncover new ideas that will make you rethink what operational intelligence means to you and your organization You ll discover recipes on data processing searching and reporting dashboards and visualizations to make data shareable communicable and most importantly meaningful You ll also find step by step demonstrations that walk you through building an operational intelligence application containing vital features essential to understanding data and to help you successfully integrate a data driven way of thinking in your organization Throughout the book you ll dive deeper into Splunk explore data models and pivots to extend your intelligence capabilities and perform advanced searching to explore your data in even more sophisticated ways Splunk is changing the business landscape so make sure you re taking advantage of it Style and approach Splunk is an excellent platform that allows you to make sense of machine data with ease The adoption of Splunk has been huge and everyone who has gone beyond installing Splunk wants to know how to make most of it This book will not only teach you how to use Splunk in real world scenarios to get business insights but will also get existing Splunk users up to date with the latest Splunk 6 3 release *Splunk: Enterprise Operational Intelligence Delivered* Betsy Page Sigman,Erickson Delgado,Josh Diakun,Paul R

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Integrate Splunk with Kubernetes for optimizing CI CD management Who this book is for The book is for data analysts Splunk users and administrators who want to become well versed in the data analytics services offered by Splunk 9 You need to have a basic understanding of Splunk fundamentals to get the most out of this book Splunk for Data Insights Richard Johnson,2025-06-19 Splunk for Data Insights Splunk for Data Insights is a comprehensive guide that demystifies the architecture deployment and mastery of Splunk one of the leading platforms in data analytics and operational intelligence Beginning with a detailed exploration of Splunk s core infrastructure deployment models and security architecture the book skillfully equips both new and experienced practitioners with the foundational knowledge required for robust scalable implementations whether on premises in the cloud or in hybrid environments Readers will gain indispensable strategies for high availability automated deployments disaster recovery and role based access management ensuring resilient and compliant Splunk environments The journey continues by diving deep into every facet of data ingestion onboarding and search processing You ll discover advanced techniques for integrating diverse data sources optimizing forwarders customizing parsing and aligning with Splunk s Common Information Model for enhanced data consistency and value Mastery of the Splunk Search Processing Language SPL is emphasized through hands on guidance on complex queries statistical analysis enrichment and best practices in search acceleration while data visualization chapters reveal the art of building performant dashboards advanced reports and interactive analytics Moving beyond operational excellence Splunk for Data Insights breaks new ground with practical applications of machine learning automation DevOps integration and security analytics Real world use cases spanning IT operations cybersecurity IoT business intelligence and regulated industries are paired with actionable strategies for compliance governance and next generation trends like AI driven operations and cloud native observability This book is the ultimate roadmap for any professional committed to unlocking actionable intelligence and building future ready organizations with Splunk *Hands-on Splunk on AWS* Jit Sinha,2024-12-30 DESCRIPTION Hands on Splunk on AWS is a practical tutorial for professionals who wish to set up manage and analyze data with Splunk on AWS This practical guide capitalizes on the scalability and flexibility of Amazon Web Services AWS to streamline your Splunk deployment This book is a complete guide to Splunk a powerful tool for analyzing and visualizing machine generated data It explains Splunk s architecture components and data flow helping you set up configure and index data effectively Learn to write efficient Splunk Processing Language SPL queries create detailed visualizations and optimize searches for deeper insights Discover advanced topics like clustering and integrating Splunk into modern DevOps practices and cloud native environments The book also shares best practices for administration troubleshooting and security By the end of this guide readers will be confident in utilizing Splunk on AWS to make data driven decisions Whether you want to improve your data analysis or use AWS for Splunk this book will teach you the skills and insights you need in today s data driven world KEY FEATURES Understand Splunk s search language to query analyze and visualize data Create interactive dashboards and

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to a code repository Who this book is for This book is for security engineers and analysts responsible for the day to day tasks of developing and implementing new detections at scale If you re working with existing programs focused on threat detection you ll also find this book helpful Prior knowledge of DevSecOps hands on experience with any programming or scripting languages and familiarity with common security practices and tools are recommended for an optimal learning experience

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