

Sure! As an SRE using Splunk, you'll frequently rely on search commands to monitor application health, troubleshoot incidents, and analyze logs efficiently. Here's a list of the most useful Splunk search commands for your role:

Basic Search Commands

1. index= – Specifies the index to search within.

index=your_index

2. source= & sourcetype= – Filters results based on log source or type.

index=your_index source="/var/log/app.log"

3. host= – Filters logs from a specific server.

index=your_index host=your_server

Filtering and Field Extraction

4. fields – Selects specific fields to display.

index=your_index | fields _time, host, message

5. where – Applies a condition filter.

index=your_index | where response_time > 500

6. rex – Extracts values using regex.

index=your_index | rex "User: (?<username>\w+)"

Statistical and Aggregation Commands

7. stats – Computes aggregates like count, avg, sum, etc.

index=your_index | stats count by host

8. timechart – Creates a time-based chart.

index=your_index | timechart avg(response_time) by host

9. tstats – Optimized for large datasets.

| tstats count where index=your_index by _time span=1h

Performance Monitoring & Troubleshooting

10. top & rare – Finds most/least common values.

index=your_index | top error_code

11. transaction – Groups related events.

index=your_index | transaction user_id maxspan=30s

12. eval – Creates new fields with calculations.

index=your_index | eval response_ms=response_time*1000

Alerting & Incident Handling

13. eventstats – Computes stats across events.

index=your_index | eventstats avg(response_time) as avg_time by host

14. lookup – Enriches logs with external data.

index=your_index | lookup user_details.csv user_id OUTPUT name, department

15. dedup – Removes duplicate results.

index=your_index | dedup user_id

Log Analysis & Pattern Matching

16. regex – Filters based on regex pattern.

index=your_index | regex _raw="error|fail|timeout"

17. bin – Groups values into bins (useful for histograms).

index=your_index | bin duration span=10

18. spath – Extracts JSON/XML fields.

index=your_index | spath input=_raw path=event.details

Incident Response & RCA

19. append – Combines multiple searches.

search1 | append [search search2]

20. join – Joins data from different sources.

index=your_index | join user_id [search index=another_index]