Lab Exercise 8: Working with Field Aliases and Calculated Fields

Description

This lab exercise walks you through the process of creating field aliases and calculated fields.

Steps

Scenario: The IT Ops team runs reports for all employee access but the user name field is not consistent across the different source types.

Task 1: Create a field alias so that cs username also appears as user.

- 1. Search for all events in the cisco_wsa_squid sourcetype over the last 7 days.
- 2. Note the cs username field values.
- 3. Go to **Settings** > **Fields** > **Field aliases**. Create a field alias with the following values:

Destination app: class Fund2

– Name: cisco_wsa_squid_aliases

Apply to: sourcetype
Named: cisco_wsa_squid
Field aliases: cs username = user

- 4. Click Save.
- 5. Return to the CLASS: Intermediate app. Re-run your search and examine the user field and values.

Results Example:

```
a splunk_server 4
a src 100+
a src_ip 100+
# status 9
# timeendpos 1
# timestartpos 1
a url 100+
a usage 5
a user 72
```

- 6. Search for all events in the cisco firewall sourcetype over the last 30 days.
- 7. Note the Username field values.
- 8. Create another field alias for sourcetype cisco firewall with the following values:

Destination app: class Fund2

– Name: cisco_firewall_aliases

Apply to: sourcetype
Named: cisco_firewall
Field aliases: Username = user

9. Perform the following search: index=network sourcetype=cisco* user=* over the last 30 days. Do you receive results from the cisco_wsa_squid and cisco_firewall sourcetypes?

NOTE: It may take a minute before the field aliases are applied and appear in searches.

Scenario: The IT Ops team is monitoring bandwidth usage for all users for the last month, but the data is reported in bytes. The team needs the usage to be measured in megabytes.

Task 2: Create a calculated field that converts bytes to MB.

- 10. Search for all events in the last 7 days for the cisco wsa squid sourcetype.
- 11. Note the sc bytes field. This field displays the amount of bytes used for that event.
- 12. Go to Settings > Fields > Calculated fields.
- 13. Create a calculated field named **sc_megabytes** that converts the value of sc_bytes to MB with the following values:

Destination app: class_Fund2
Apply to: sourcetype
Named: cisco_wsa_squid
Name: sc_megabytes
Eval expression: sc_bytes/(1024*1024)

14. Return to the **CLASS: Intermediate** app. Perform a search on the cisco_wsa_squid sourcetype that shows the total bandwidth by usage.

Results Example:

usage \$	/	Bandwidth (MB)
Borderline		6.86968708038330100000
Business		17.08714580535888700000
Personal		54.93885517120361000000
Unknown		17.56064128875732400000
Violation		0.8761548995971680000

Supplemental Exercise:

Scenario: The IT Ops team wants to correlate data from multiple source types using the http_action and http_method fields. In the access_combined_source type, these fields are currently

called action and method.

Task 1: Create two field aliases for the access_combined sourcetype called http_action and http_method, based on the existing access_combined fields action and method.

- 1. Create the field aliases.
- 2. Run a search to verify that the field aliases were created correctly.

Page 41