Lab Exercise 11: Creating and Using Workflow Actions

Description

These steps create GET, POST, and Search workflow actions.

Steps

Scenario: Hackers are continually trying to log into the Linux server. IT Ops analysts need to track ongoing attempts by external sources trying to log in with invalid credentials.

Task 1: Create a GET workflow action that opens a new browser window with information about the source IP address.

- 1. Navigate to Settings > Fields > Workflow actions.
- 2. Click **New Workflow Action** to create a workflow action.
- 3. For the Destination App, select class Fund2.
- 4. For Name, type: get_whois_info
- 5. For Label, type: Get info for IP: \$src_ip\$
- 6. For Apply only to the following fields, type: src_ip
- 7. For **Action type**, make sure link is selected.
- 8. For URI, type: http://who.is/whois-ip/ip-address/\$src_ip\$
- 9. From the **Open link in** dropdown menu, verify New window is selected.
- 10. From the Link Method dropdown menu, verify get is selected.
- 11. Save your workflow action.
- 12. Verify your workflow action works as expected. Return to the **CLASS: Intermediate** app and search for index=security sourcetype=linux_secure src_ip=* over the **last 24 hours**. (You may need to refresh your browser for the workflow action to appear.)
- 13. Expand the first event containing a value for src ip and click Event Actions.
- 14. Click **Get info for IP**: {src_ip}. A secondary browser window or tab should open to the URI and display the IP address information.

NOTE: If whois is not behaving as expected, try http://whois.domaintools.com /\$src\$.

Results Example:

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Scenario: The revenue accounting department is having issues with sales transactions not posting

to the accounting system. This issue is causing revenue recognition discrepancies and the IT department is tasked with notifying the accounting system administrators when

there is a transaction error in the system.

Task 2: Create a POST workflow action that uses fields from events with errors to create a ticket in the IT ticket tracking system.

15. Perform a search on the sales entries sourcetype for events posting errors.

These events contain two fields that are needed when creating tickets in the tracking system:

TransactionID and CustomerID.

16. Create a field extraction with a field name of **result** for the string "error." This allows you to easily search for events where **result=error**.

NOTE: If you don't recall how to create a field extraction, please refer to Lab Exercise 7. If the **result=error** field extraction isn't done, the rest of this task will **not** work.

- 17. Navigate to Settings > Fields > Workflow actions.
- 18. Select New Workflow Action.
- 19. For the Destination App, select class_Fund2.
- 20. For Name, type: Create accounting system ticket
- 21. For Label, type: Open accounting ticket for transaction \$TransactionID\$
- 22. For Apply only to the following fields, type: result
- 23. For **Show Action in**, select Event menu.
- 24. For **Action type**, make sure link is selected.
- 25. For URI, type: http://52.3.246.206
- 26. From the **Open link in** dropdown menu, select **New window**.
- 27. From the **Link Method** dropdown menu, select **post**.
- 28. Enter the following values for the **Post arguments**:
 - details = \$ raw\$
 - environment = \$host\$
 - occurred = \$ time\$
 - priority = Urgent
 - summary = sales transaction error on \$host\$
- 29. Click Save.
- 30. Rerun your search for events where **result=error** and view the details of one of the returned event s. Does your POST workflow action appear?
- 31. Click on your workflow action. A new browser window should appear with the ticket details.

Results Example:

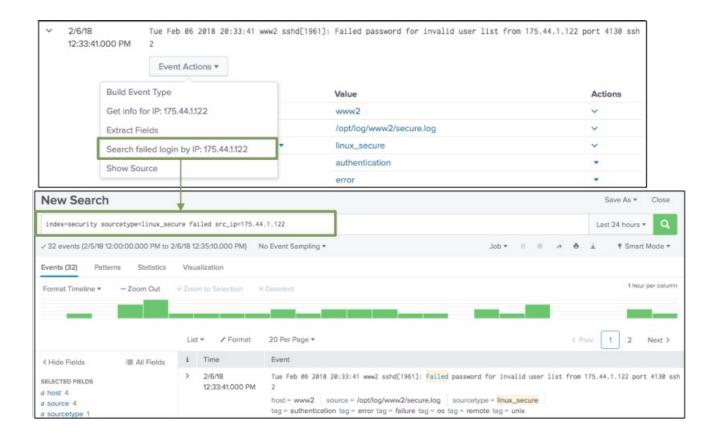


Task 3: Create a Search workflow action that performs a search for all failed password events associated with a specific IP address.

- 32. Navigate to Settings > Fields > Workflow actions.
- 33. Click New Workflow Action.
- 34. For the Destination App, select **class_Fund2**.
- 35. For Name, type: search_access_by_ipaddress
- 36. For Label, type: Search failed login by IP: \$src ip\$
- 37. For Apply only to the following fields, type: src_ip
- 38. From the **Action Type** dropdown menu, select search.
- 39. In the **Search string** field, type: index=security sourcetype=linux_secure failed src_ip=\$src_ip\$
- 40. From the Run in app dropdown, select class Fund2.
- 41. From the **Run search in** dropdown menu, verify New window is selected.
- 42. Select the Use the same time range as the search that created the field listing checkbox.
- 43. Save your workflow action.
- 44. Verify your workflow action works as expected. Return to the **CLASS: Intermediate** app and search for index=security sourcetype=linux_secure src_ip=* over the **last 24 hours**. (You may need to refresh your browser for the workflow action to appear.)
- 45. Expand an event with an IP address field and click **Event Actions**.
- 46. Select Search failed login by IP: {src_ip}
- 47. A secondary search window should open with the search results for the IP address.

 ${\it Results\ Example:}$

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