

Synapse Bootcamp - Module 18

Reports, Articles, and the Spotlight Tool - Exercises

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Objectives

In these exercises you will learn:

• How to use the Spotlight Tool to load, parse, model, and tag a report

Note: We are constantly updating Synapse and its Power-Ups! We do our best to make sure our course documents (slides, exercises, and answer keys) are up-to-date. However, you may notice small differences (such as between a screen capture in the documents and the appearance of your current instance of Synapse).

If something is unclear or if you identify an error, please reach out to us so we can assist!



Exercises

- All exercises use the Research Tool with the Storm Mode Selector set to Storm mode.
- Some example queries may wrap due to length.

Using Spotlight to Model Reports

Exercise 1

Objective:

 Use Synapse Spotlight to load, parse, add, and tag data related to a public report.

For this exercise, we will use the following blog from Fortinet:

"Guard Your Drive from DriveGuard: Moses Staff Campaigns Against Israeli Organizations Span Several Months"

https://www.fortinet.com/blog/threat-research/guard-your-drive-from-d
riveguard

The blog describes activity by a threat group Fortinet calls **Moses Staff.**

To get started:

• **Open** the blog link in your web browser.

Part 1 - Load the Report

- In the **Spotlight Tool**, click the **+ New Document** button.
- In the **New Document** dialog, enter the following in the *Name* field:

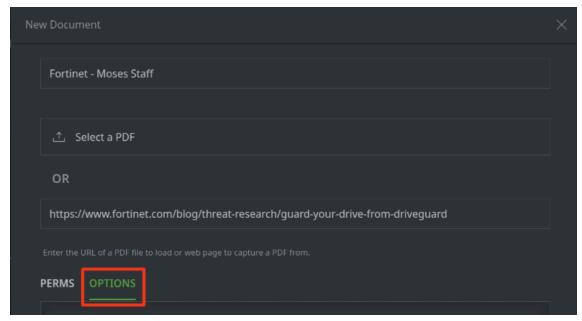
Fortinet - Moses Staff

• Enter the following in the *URL* field:

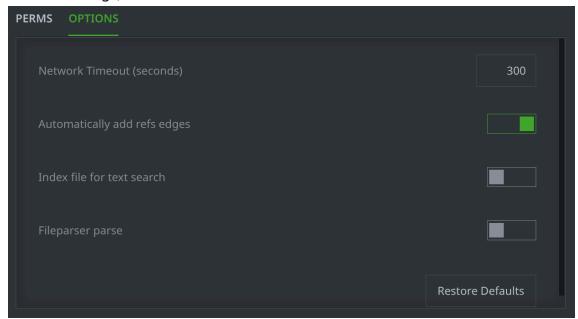


https://www.fortinet.com/blog/threat-research/guard-your-drive-from-driveguard

• Select the **OPTIONS** tab:



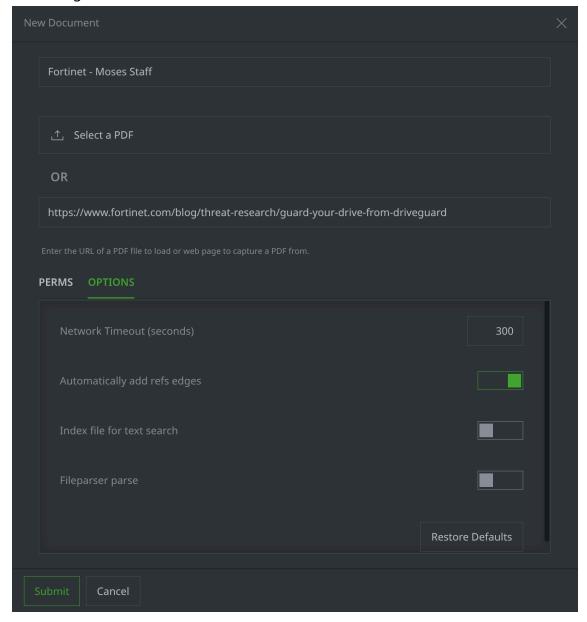
 Review the available settings. Set the toggles as shown below (these are the default settings):





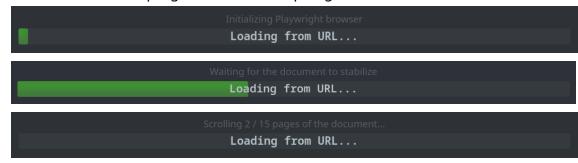
Tip: The settings you choose here will **persist** for any new Spotlight documents you create (unless you change the settings again). If you always work with Spotlight in the same way, you can set these once and forget about them.

• The dialog should look similar to this. Click the **Submit** button to continue:





• You will see various progress bars while Spotlight loads the document:



Note: every website is different; this process may take several seconds to complete, depending on the size and format of the HTML document.

Question 1: What does Spotlight display after loading the PDF?

Question 2: What kinds of indicators (forms) did Spotlight recognize, based on its initial parsing of the PDF?

Part 2 - Set Document (media:news node) Properties

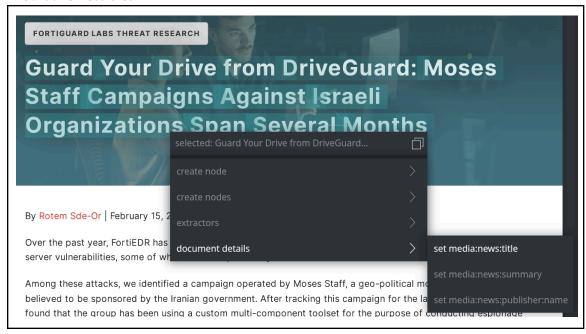
• In the **Spotlight Tool,** in the document window, use your mouse to highlight the text of the article's title:



Tip: Synapse will display a tooltip containing the highlighted text.



 Right-click the highlighted text and select document details > set media:news:title:

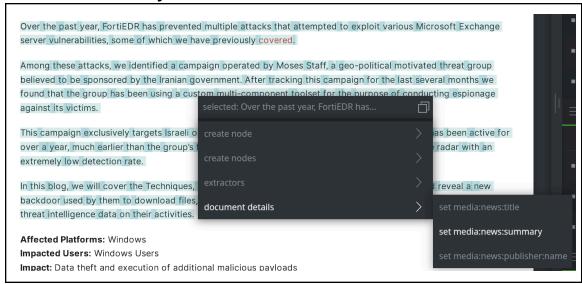


 In the document window, use your mouse to highlight the first four paragraphs of the article (from below the author's name to just above "Affected Platforms"):

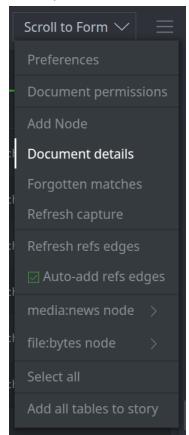




 Right-click the highlighted text and select document details > set media:news:summary:



• In the **Spotlight Tool**, click the **main hamburger menu** (next to the **Scroll to Form** button) and select **document details:**

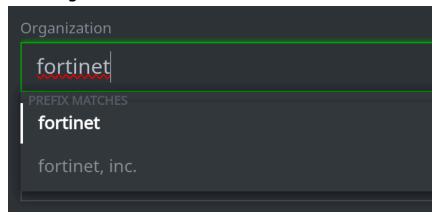




Question 3: What document (media:news) properties are already set?

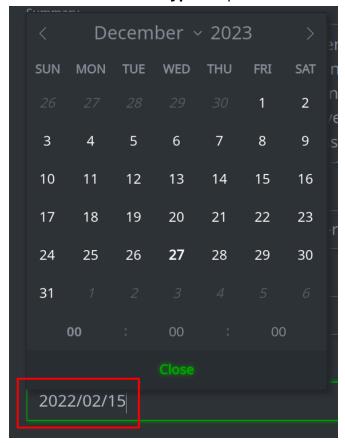
You want to add more information in the **Edit Document media:news node** dialog.

• In the **Organization** field, enter the name **fortinet**:



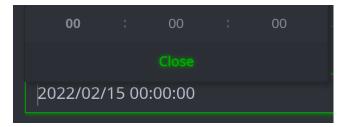


• In the **Published** field, **type** the publication date of the blog (**2022/02/15**):

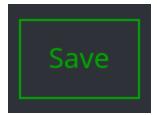


(You can also use the **Date Picker** to select the date.)

• Click **Close** to close the Date Picker:

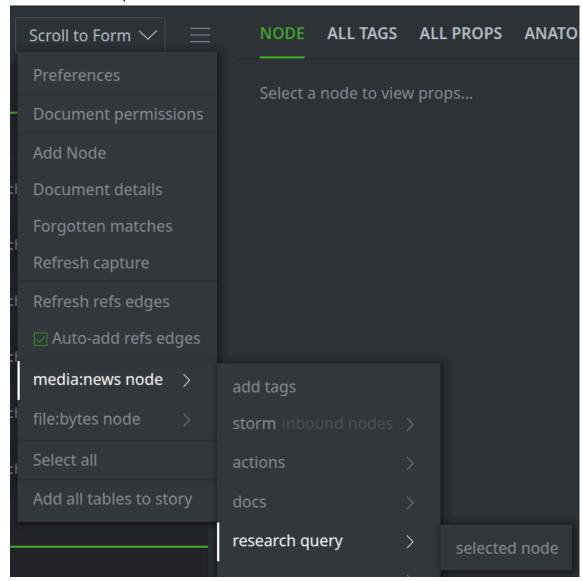


• Click the **Save** button when finished:





• Click the main hamburger menu and select the media:news node > query > selected node option:



This option switches you to the **Research Tool** and lifts the **media:news** node.

• **Select** the **media:news** node in the Results Panel and view its properties.

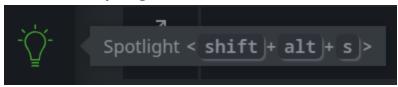
Question 4: What does your **media:news** node look like after setting the document properties in Spotlight?



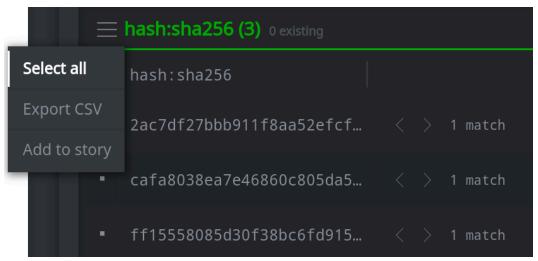
Part 3 - Create and Tag Indicators

We want to add and tag any common indicators before reviewing other data in more detail.

• Return to the **Spotlight Tool**:



• In the **Spotlight Results**, click the **hamburger menu** next to the **hash:sha256** header and choose **Select all**:



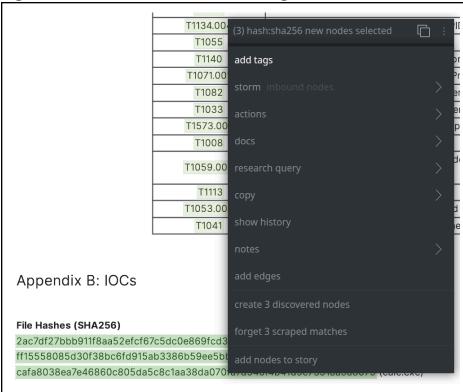
• Spotlight shows you the hashes in the document:



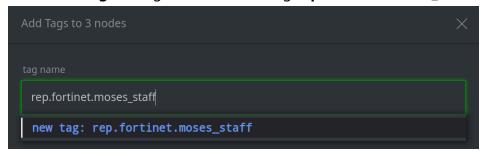


We want to create the hashes and tag them to show Fortinet associates them with Moses Staff. Tagging the nodes will also create them.

• Right-click the hashes and select add tags:

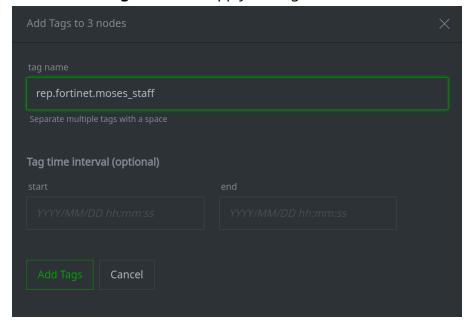


• In the Add Tags dialog, enter the new tag rep.fortinet.moses_staff:





• Click the **Add Tags** button to apply the tags:

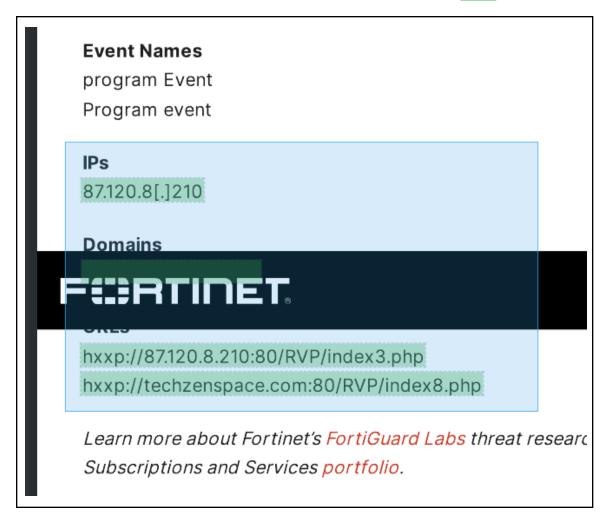


Question 4: What happened to the hashes?

We want to add the rest of the indicators from Fortinet's IOC list.

• In the document use **Shift-click and drag** to draw a box around the IP address, Domains, and URLs:



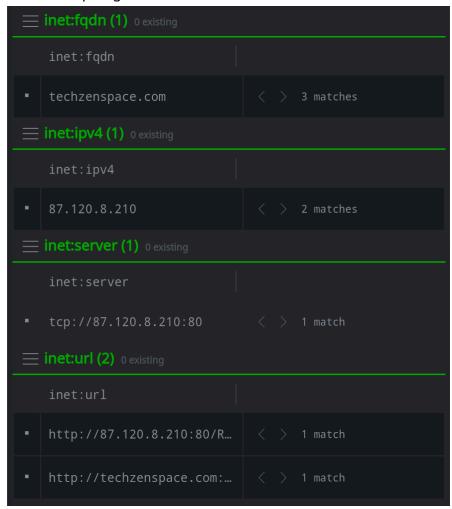


You can also use **ctrl-click** to multi-select the indicators.

Note: Depending on how Spotlight captured Fortinet's website, a banner may cover some of the IOCs. In the image above, the FQDN **techzenspace.com** is "behind" the banner but still recognized by Spotlight.

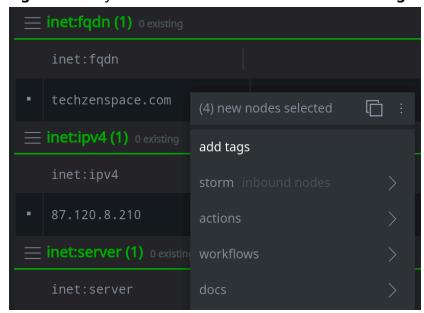


• Note that Spotlight also **selects** the four nodes in the Results:

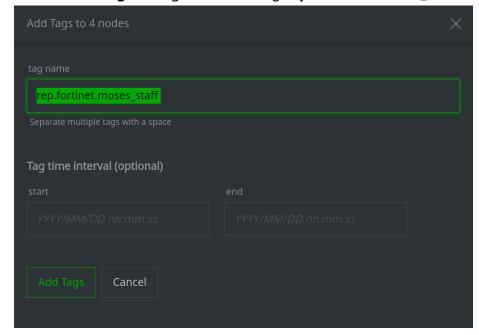




• Right-click any of the selected nodes and choose add tags:



• Use the Add Tags dialog to add the tag rep.fortinet.moses_staff:



Part 4 - Highlight and Add Nodes with Quick Forms



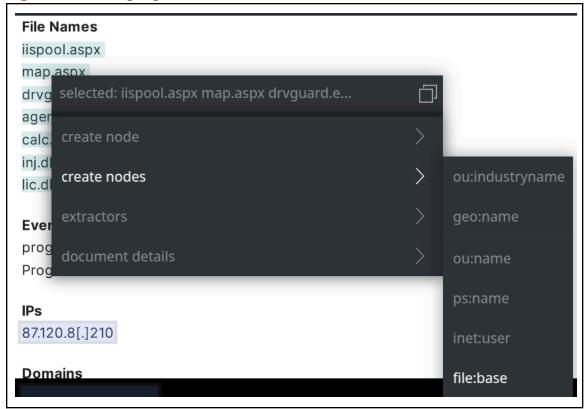
The IOCs include a list of file names. Spotlight cannot recognize ("scrape") file names, so we need to create them manually.

Spotlight can recognize 'lists' of forms that are separated by either newlines (line breaks) or commas. So we can create all the file names (**file:base** nodes) at once.

• In the document, **click and drag** to highlight the file names:



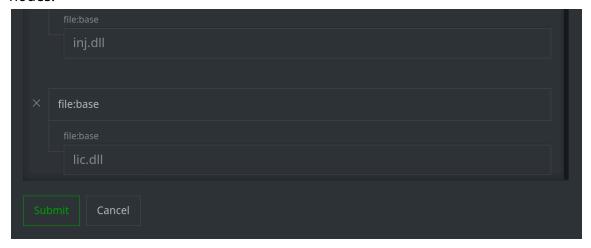
• **Right-click** the highlighted text and select **create nodes** > **file:base**:



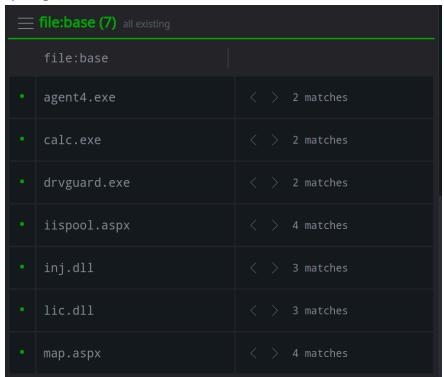
Question 5: What happened? Did Spotlight create the **file:base** nodes?



• In the **Create Nodes** dialog, review the suggested nodes. Click **Submit** to create the nodes:

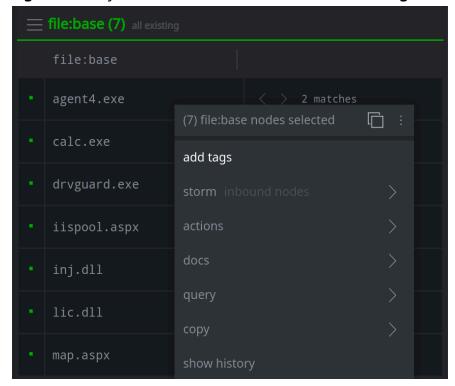


• Spotlight created and selected the seven **file:base** nodes:

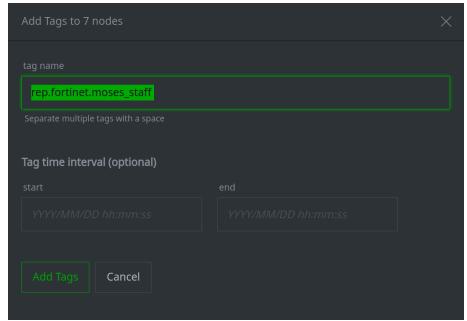




• Right-click any of the selected nodes and choose add tags:



• Use the **Add Tags** dialog to add the tag **rep.fortinet.moses_staff**:

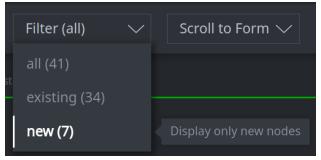




Part 5 - Review Suggested Nodes

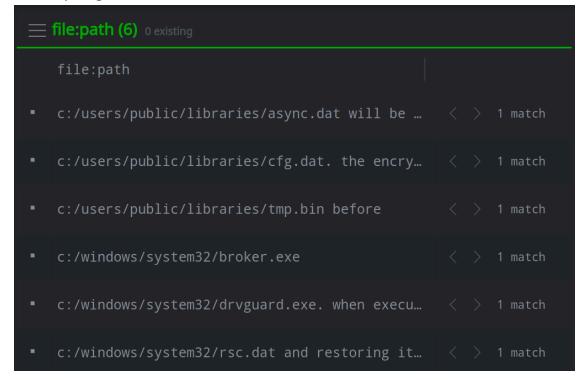
You want to review additional nodes that Spotlight scraped and suggested.

• In the Spotlight **Results**, click the **Filter** button and select **new (7)** to only display new (suggested) nodes:



The numbers on your menu may vary slightly depending on the data in your demo instance.

• In the Spotlight **Results**, locate the **file:path** nodes:





Note that only **one** suggested node is a valid file path.

• **Select** the node for the file path **c:/windows/system32/broker.exe:**

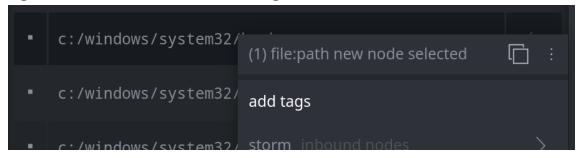


Note that Spotlight takes you to the location of this path within the document:

If the backdoor does not exist on the disk, the loader creates it by reading the content of C:\Windows\System32\rsc.dat and restoring its DOS header magic value to 4D 5A 90. The valid executable is written to disk at C:\Windows\System32\broker.exe

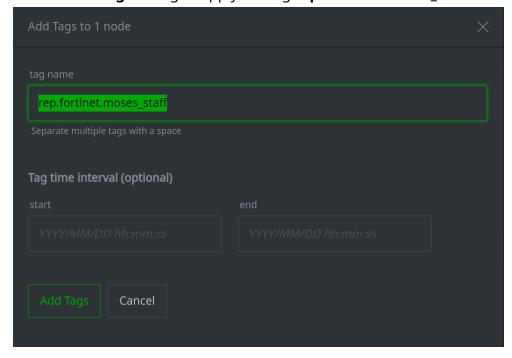
The path is the location of a backdoor used by Moses Staff. We want to add the node to Synapse and tag it.

Right-click the node and select add tags:





• Use the **Add Tags** dialog to apply the tag **rep.fortinet.moses_staff:**

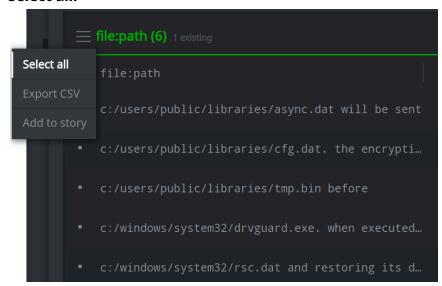


Question 6: What happens when you tag and create the node?

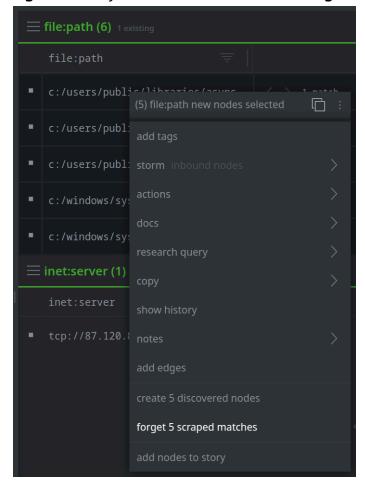
We want to "forget" the rest of the **file:path** nodes. For these nodes, Spotlight included extra text that is not part of the file path.



• In the Results, click the **hamburger menu** next to the **file:path** header and choose **Select all:**



• Right-click any selected node and choose forget 5 scraped matches:





The nodes are removed from the **Filter (new)** list. You can always review (and re-add) "forgotten" nodes by clicking the Spotlight **hamburger menu** and selecting **Forgotten Matches:**Scroll to Form
Preferences

Document permissions

Part 6 - If Time Allows

Add Node

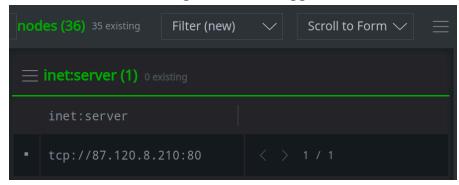
Document details

Forgotten matches

Refresh capture

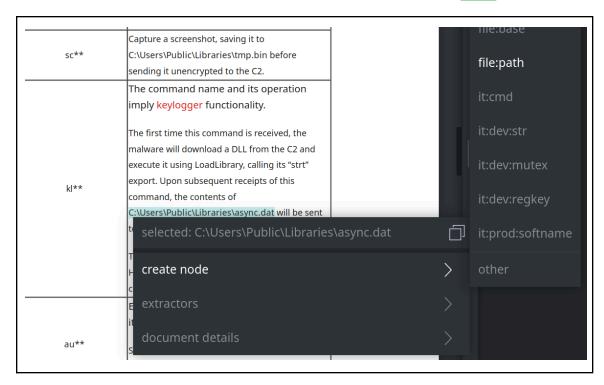
If you still have time, continue to practice using Spotlight!

• **Review** (and create or forget) the last "suggested" node:



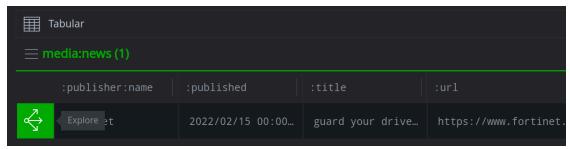
• Use Spotlight's **Quick Forms** to highlight and create the **file:path** nodes that were scraped incorrectly:





Lift the media: news node in the Research Tool:
 Click the hamburger menu and select media: news node > query > selected node.

In the Research Tool, **Explore** from the **media:news** node to view your connected nodes:





• Use **Node Actions** to enrich the indicators:

