Synapse Bootcamp - Module 21

More Fun with Spotlight - Answer Key

Answer Key

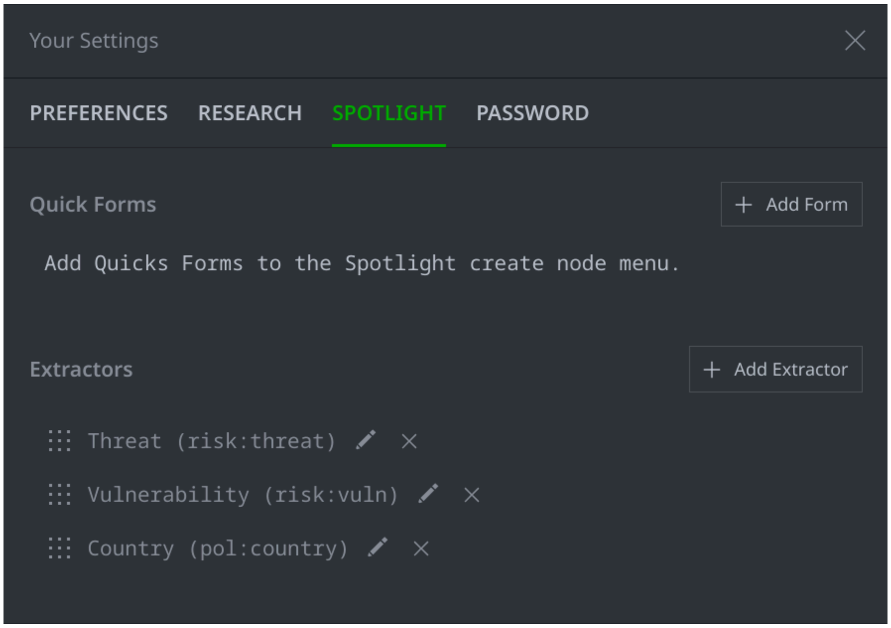
Create Extractors

Exercise 1 Answer

Objective:

- **Add custom Extractors to Spotlight.**

- When you have added the Extractors, the **SPOTLIGHT** tab in the **Your Settings** dialog should look similar to the following:



Quick Forms

```
Add Quicks Forms to the Spotlight create node menu.
```

Extractors

```
Threat (risk:threat)
Vulnerability (risk:vuln)
Country (pol:country)
```

Working with Spotlight Extractors

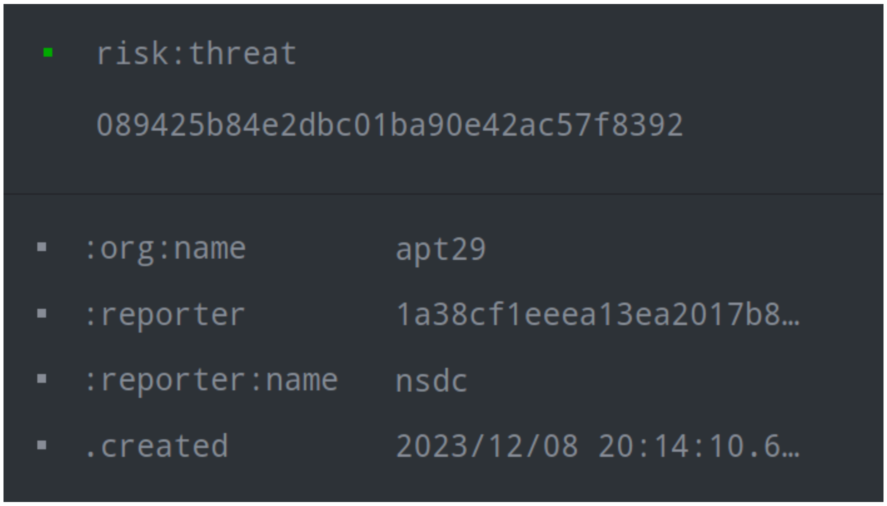
Exercise 2 Answer

Objective:

- **Use Extractors to create nodes from highlighted text.**

Question 1: Did the node already exist, or did Spotlight create a new **`risk:threat`** node? How can you tell?

- Spotlight created a **new** **`risk:threat`** node:



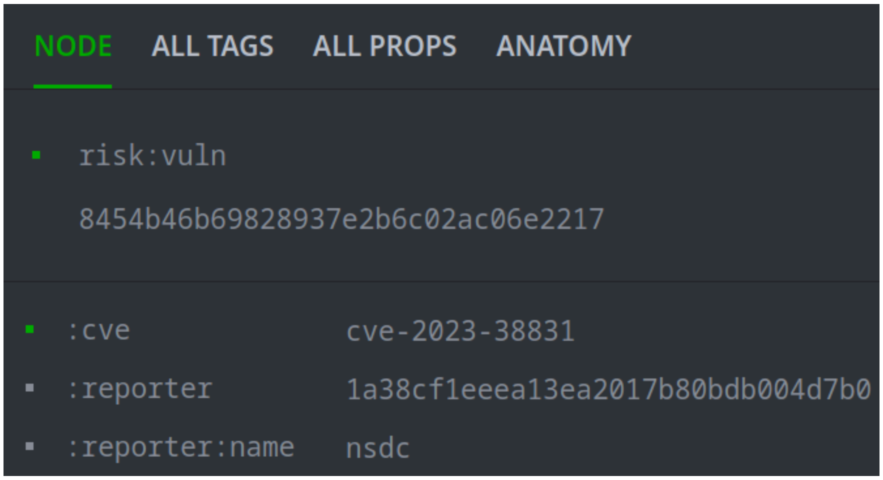
```
▪  risk:threat
   089425b84e2dbc01ba90e42ac57f8392

▪  :org:name          apt29
▪  :reporter          1a38cf1eeea13ea2017b8…
▪  :reporter:name     nsdc
▪  .created           2023/12/08 20:14:10.6…
```

You can see that this is a new node because:

  - The only properties that are set are the threat name (APT29), the reporter name (NSDC), and the reporter organization (the guid for NSDC's **`ou:org`** node, which was already in Synapse).
  - The **`.created`** time is the current date / time.

Question 2: What information is available for the **risk:vuln** node?

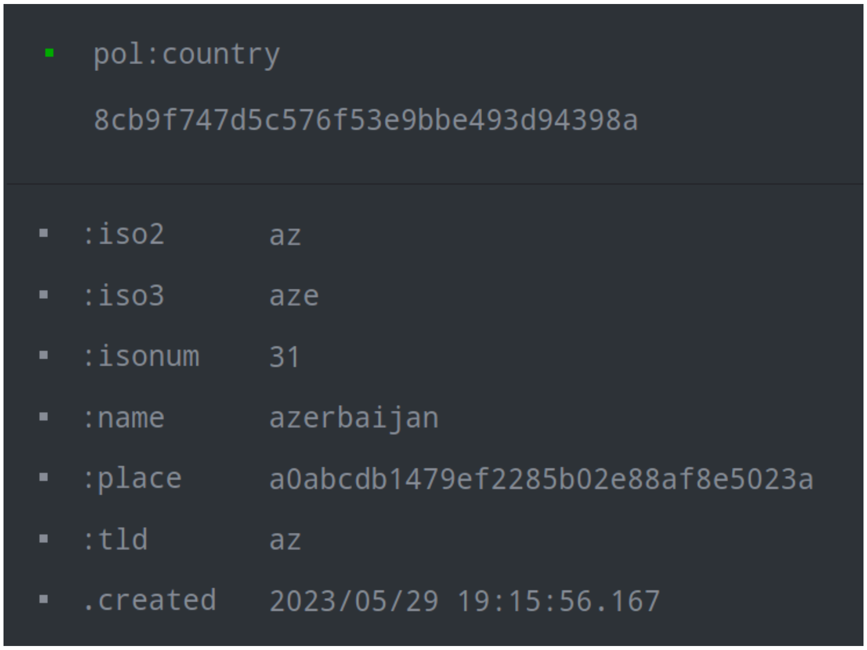
- Spotlight created a **new** **`risk:vuln`** node and set properties using data from the **`media:news`** node:



```
▪  risk:vuln
   8454b46b69828937e2b6c02ac06e2217

▪  :cve             cve-2023-38831
▪  :reporter        1a38cf1eeea13ea2017b80bdb004d7b0
▪  :reporter:name   nsdc
```

Question 3: Did Spotlight add the **`pol:country`** node?

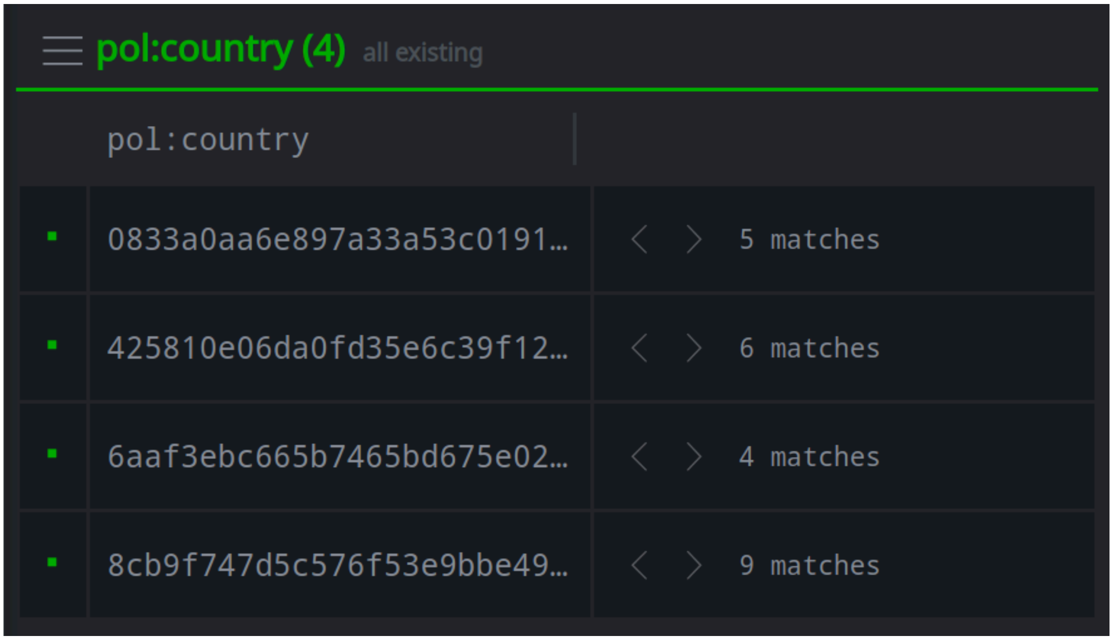
- **Yes.** Spotlight added the **`pol:country`** node:



```
▪  pol:country

   8cb9f747d5c576f53e9bbe493d94398a

▪  :iso2      az
▪  :iso3      aze
▪  :isonum    31
▪  :name      azerbaijan
▪  :place     a0abcdb1479ef2285b02e88af8e5023a
▪  :tld       az
▪  .created   2023/05/29 19:15:56.167
```

Question 4: How many **`pol:country`** nodes are in your Spotlight results?

- There are **four** `pol:country` nodes:



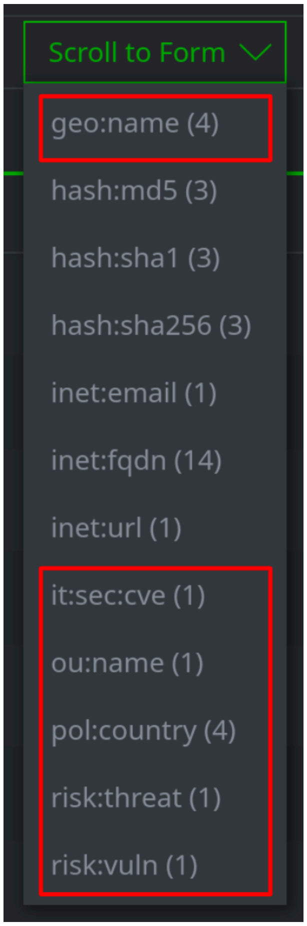
pol:country (4) all existing

	pol:country	
■	0833a0aa6e897a33a53c0191…	‹ › 5 matches
■	425810e06da0fd35e6c39f12…	‹ › 6 matches
■	6aaf3ebc665b7465bd675e02…	‹ › 4 matches
■	8cb9f747d5c576f53e9bbe49…	‹ › 9 matches

Question 5: Are the nodes that you created in the results?

- **Yes.** Your results should include:
  - For **APT29:** one `risk:threat` and one `ou:name`.
  - For **CVE-2023-38831:** one `risk:vuln` and one `it:sec:cve`.
  - For the **countries:** four `pol:country` nodes and four `geo:name` nodes.

Other nodes (such as **inet:fqdn** nodes) are also linked, based on indicators that Spotlight extracted automatically from the report:



geo:name (4)
hash:md5 (3)
hash:sha1 (3)
hash:sha256 (3)
inet:email (1)
inet:fqdn (14)
inet:url (1)
it:sec:cve (1)
ou:name (1)
pol:country (4)
risk:threat (1)
risk:vuln (1)

Spotlight and the Threat Intel Workflow

Exercise 3 Answer

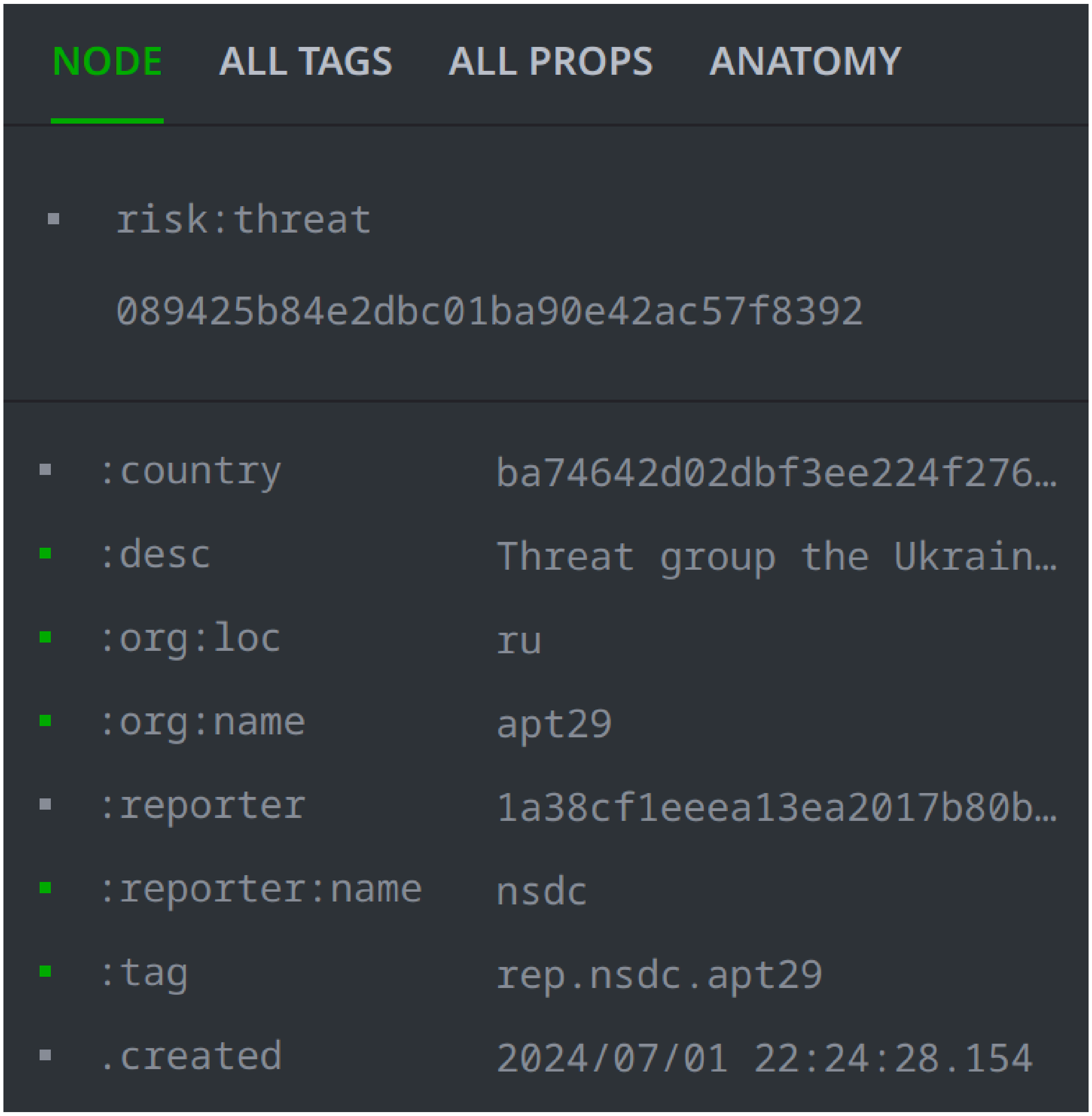
Objective:

- **Use Spotlight, Extractors, and the Threat Intel Workflow to capture detailed information about threat activity.**

Part 1 - Add information about APT29

Question 1: What does your **`risk:threat`** node look like?

- Your **`risk:threat`** node should look similar to the following:

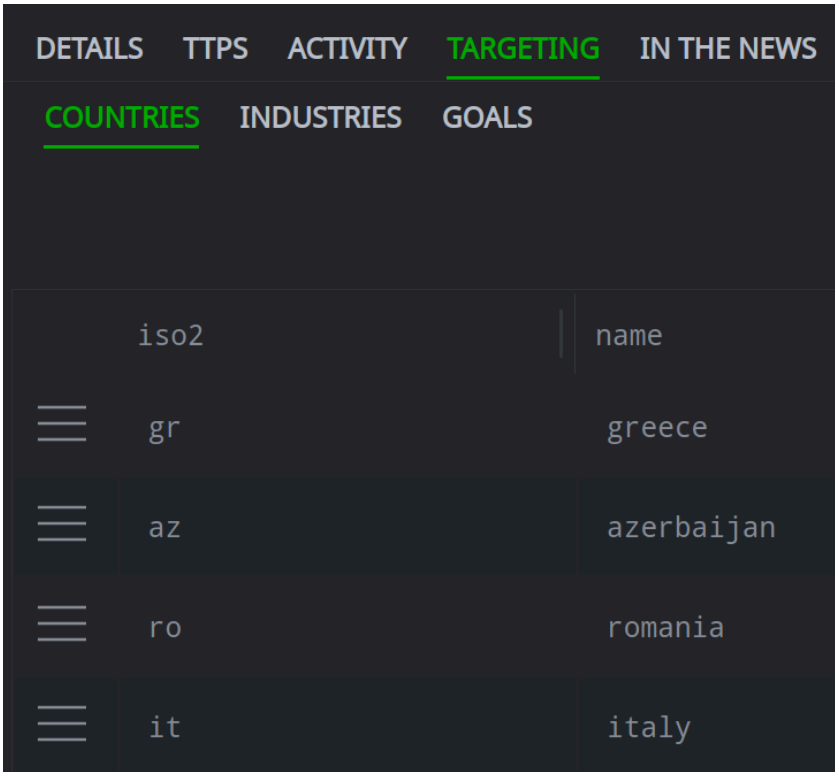


```
risk:threat
089425b84e2dbc01ba90e42ac57f8392

:country         ba74642d02dbf3ee224f276…
:desc            Threat group the Ukrain…
:org:loc         ru
:org:name        apt29
:reporter        1a38cf1eeea13ea2017b80b…
:reporter:name   nsdc
:tag             rep.nsdc.apt29
.created         2024/07/01 22:24:28.154
```

Part 2 - Link information about APT29

Question 2: What does the **COUNTRIES** tab look like?

- There should be four countries listed:

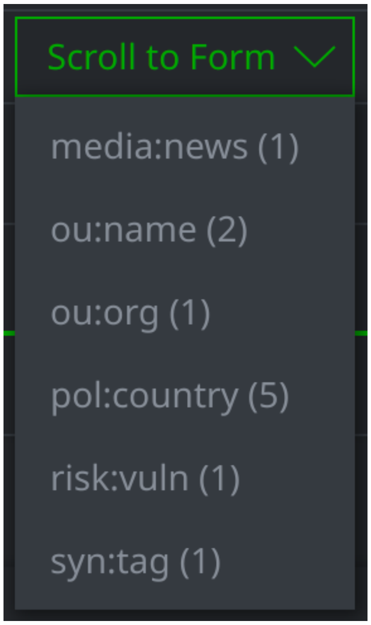


iso2	name
gr	greece
az	azerbaijan
ro	romania
it	italy

Part 3 - View your threat cluster in the Research Tool

Question 3: What kinds of nodes is the **`risk:threat`** connected to?

- The **risk:threat** is connected to several kinds of nodes:



Some of the connections are based on **properties** of the **risk:threat** node:

- The **ou:name** nodes (from the threat's **:org:name / :org:names** and **:reporter:name** properties).
- The **ou:org** node (from the threat's **:reporter** property).
- One of the five **pol:country** nodes (russia, from the threat's **:country** property).
- The **syn:tag** node (from the threat's **:tag** property).

The remaining nodes are connected based on **light edges** that we created in Spotlight and the Threat Intel Workflow. These include:

- **media:news**
- **pol:country**
- **risk:vuln**

Question 4: What kinds of nodes are connected by each edge?

- refs
- targets
- uses

- The **refs** edge links the threat to the **NSDC report** (**media:news**).
- The **targets** edge links the threat to the **countries** (**pol:country**) reported by NSDC.
- The **uses** edge links the threat to the **vulnerability** (**risk:vuln**) reported by NSDC.