

Synapse Bootcamp - Module 2

Getting Started - Answer Key

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Answer Key

Fork a View

Exercise 1 Answer

Objective:

- Create a fork of your current view.

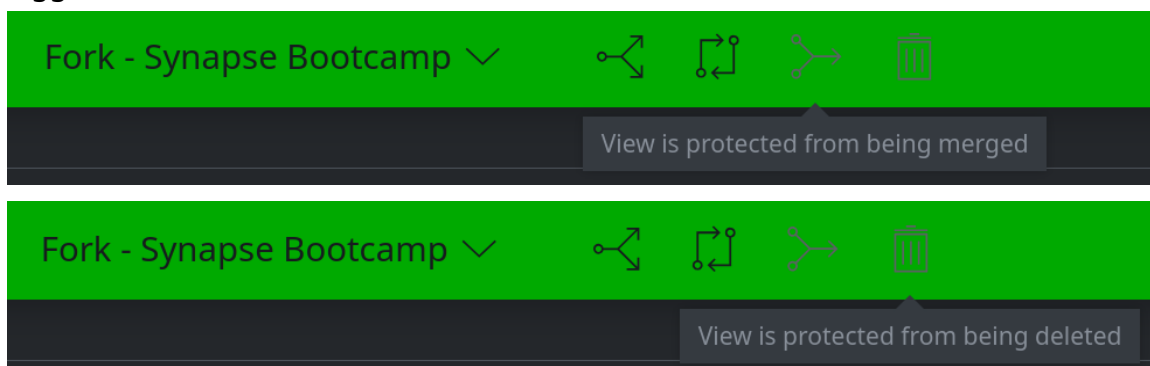
Question 1: How did the information displayed in your **Top Bar** change?

- Your **Top Bar** shows that you are in your new **Fork - Synapse Bootcamp** view:



Tip: When you fork a view, Synapse automatically switches you into your newly created view (your fork / forked view).

Your **merge** and **delete** icons are also grayed out (because you set the **Protect** toggle to **ON**):



Lifting Nodes

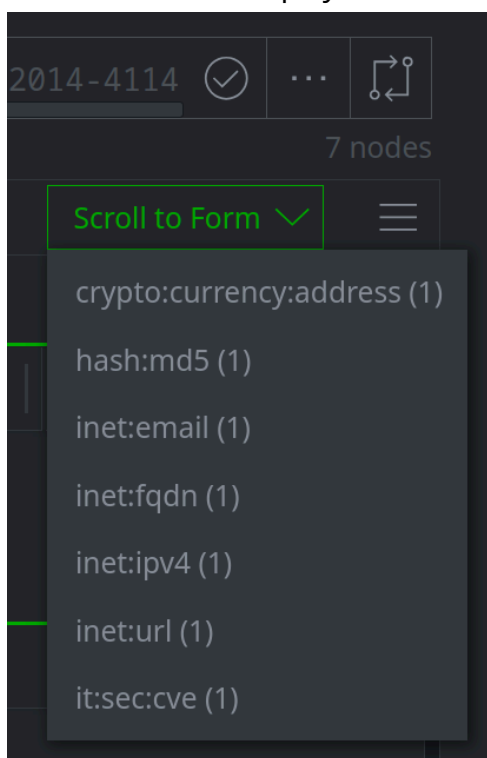
Exercise 2 Answer

Objective:

- Practice lifting nodes using Lookup mode.

Question 1: How many nodes are displayed in the Results Panel?

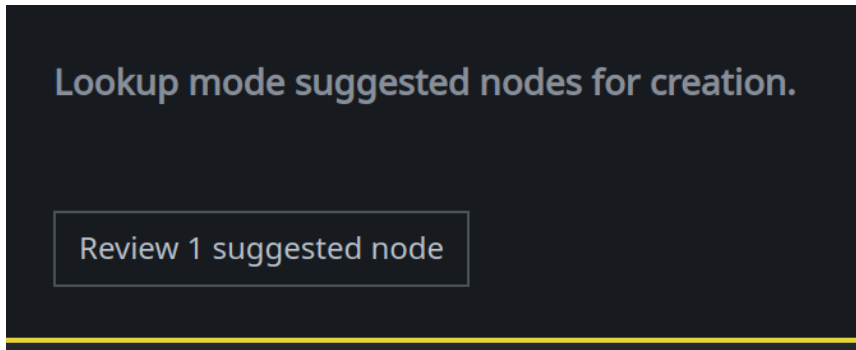
- **Seven** nodes are displayed in the Results Panel:



Tip: Synapse is able to recognize the indicators, even though some of them are **defanged**. Synapse automatically "refangs" the indicators to lift them.

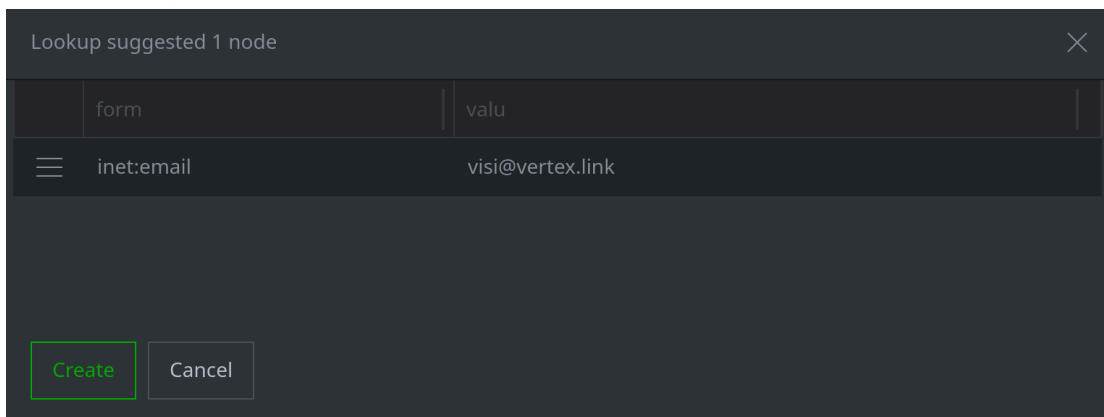
Question 2: What happens when you run the query?

- Synapse displayed a popup ("toast") message:



Lookup mode was able to recognize **visi@vertex.link** as a valid email address, but the address does not currently exist in Synapse. Synapse offers to create the node for you.

If you click the **Review 1 suggested node** button, you can use the **suggested nodes** dialog to **Create** the node or **Cancel**:

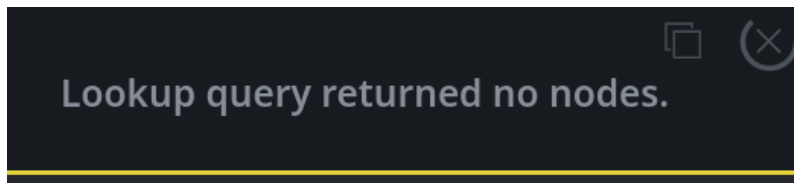


Tip: If the toast message disappears, place your cursor in the **Query Bar** and press **Enter** to re-run the query.

In the **Lookup suggested 1 node** dialog, you can use the **hamburger menu** next to each node to **Remove** individual nodes. This is useful when Lookup mode suggests multiple nodes, but you only want to create some of them.

Question 3: What happens when you run the query?

- When you query the file name **certutil.exe**, Synapse displays a message:



Lookup mode did not find a matching node, and did not know what kind of node to offer to create for you.

Lookup mode does not recognize "file names" - **certutil.exe** does not match the kinds of data that **Lookup** mode knows about.

Note: A "file name" is an arbitrary string. It could even "look like" another kind of data, such as an FQDN. Is **command.com** a file name, or a domain, or both?

Tip: Lookup mode makes it easy to lift (ask about) many **common** indicators. Later we'll learn how the Storm query language expands our ability to "ask about" additional kinds of data!

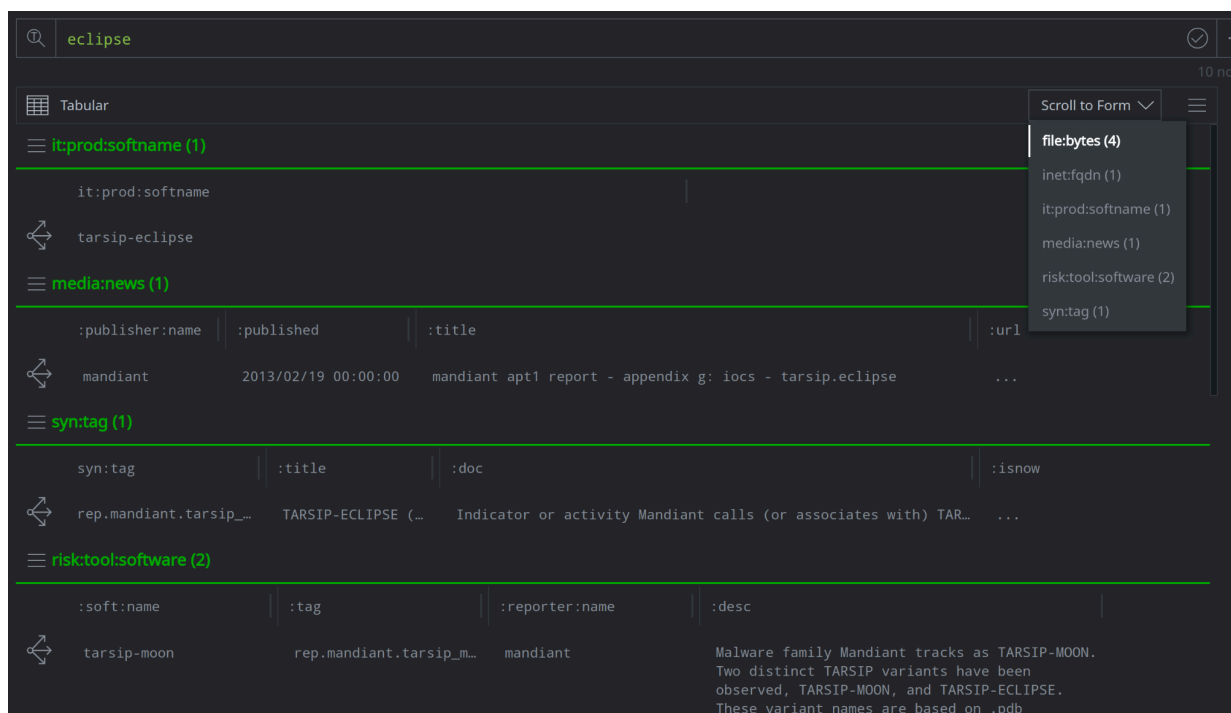
Exercise 3 Answer

Objective:

- Practice lifting nodes using Text Search mode.

Question 1: What kinds of nodes are returned by your search?

- Synapse returns several kinds of nodes:



Search results for 'eclipse' showing various categories and their details.

Category	Item	Attributes
it:prod:softname (1)	it:prod:softname	
	tarsip-eclipse	
media:news (1)	:publisher:name	:published
	mandiant	2013/02/19 00:00:00
syn:tag (1)	syn:tag	:title
	rep.mandiant.tarsip_...	TARSIP-ECLIPSE (...)
risk:tool:software (2)	:soft:name	:tag
	tarsip-moon	rep.mandiant.tarsip_m...

The results include:

- **Files** (**file:bytes**), where 'eclipse' appears in the file's PDB path and exports library name;
- **Domains** (**inet:fqdn**) that include the string 'eclipse';
- **Software** (malware) names (**it:prod:softname**) that include 'eclipse';
- **Articles** (**media:news**) that contain 'eclipse' in their title or summary;
- **Software** (**risk:tool:software**) that contain 'eclipse' in their description; and
- **Tags** (**syn:tag**) that contain 'eclipse'.

Working with Tags

Exercise 4 Answer

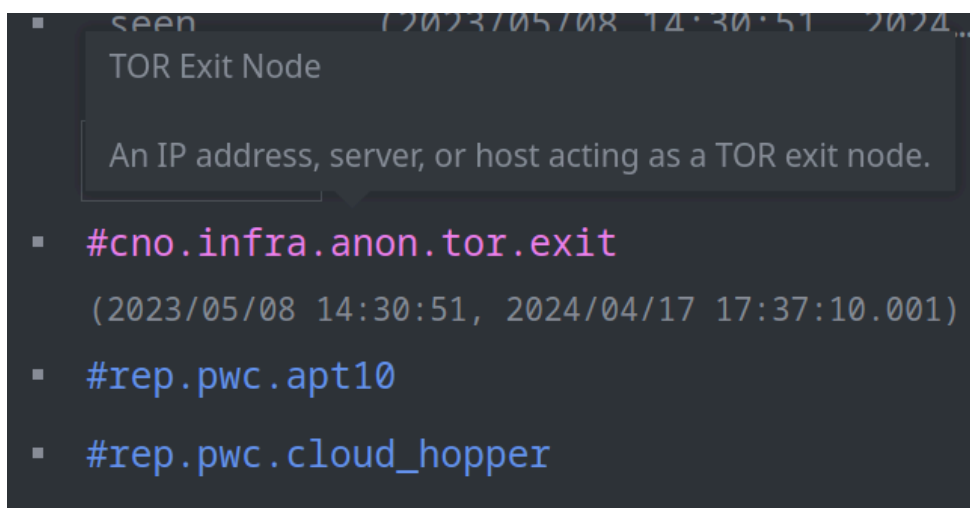
Objective:

- View and understand the tags on a node.

Question 1: What do the **tags** on this node tell us about the IP address?

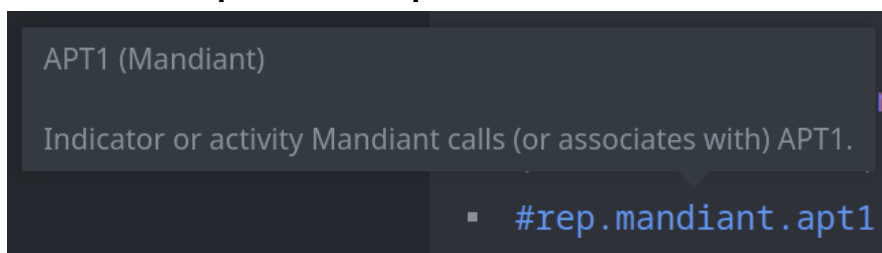
- The tags show that:

- The IP is (or was) a **TOR exit node** (between 2023/05/08 and at least 2024/04/17).
- **PwC** (PricewaterhouseCoopers) associates the IP with **APT10**.
- **PwC** associates the IP with **Cloud Hopper**.



Question 2: What **publicly reported** threat group is this FQDN associated with?

- The FQDN **satellitebbs.com** is associated with the **APT1** threat group, according to Mandiant (**rep.mandiant.apt1**):



Vertex uses the **rep** ("reported") tag tree to record information or assessments reported by third parties.

Question 3: What **internally tracked** threat group is this FQDN associated with? When did that threat group control the FQDN?

- The FQDN is associated with Vertex internal threat group **T15**:

```
▪ #cno.threat.t15.own  
(2009/10/22 00:00:00, 2013/10/22 00:00:00)
```

- Vertex indicates that T15 controlled the FQDN between **October 22, 2009 and October 22, 2013** (2009/10/22 - 2013/10/22).

Vertex uses the **cno** ("computer network operations") tag tree to record our own first-hand assessments.

Question 4: When was the FQDN **first sinkholed**? What organization sinkholed it?

- The FQDN was first sinkholed on **January 10, 2014** (2014/01/10) by **Kleissner & Associates** (aka Virus Tracker):

```
▪ #cno.infra.dns.sink.holed.kleissner  
(2014/01/10 00:00:00, 2017/01/10 00:00:00)  
▪ #cno.infra.dns.sink.holed.snk1  
(2017/03/30 00:00:00, 2018/03/30 00:00:00)
```

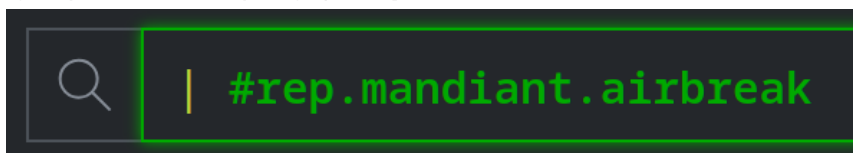
Exercise 5 Answer

Objective:

- Lift nodes using tags.

Question 1: What query did Synapse load and run in the Query Bar?

- Synapse ran the query | **#rep.mandiant.airbreak:**

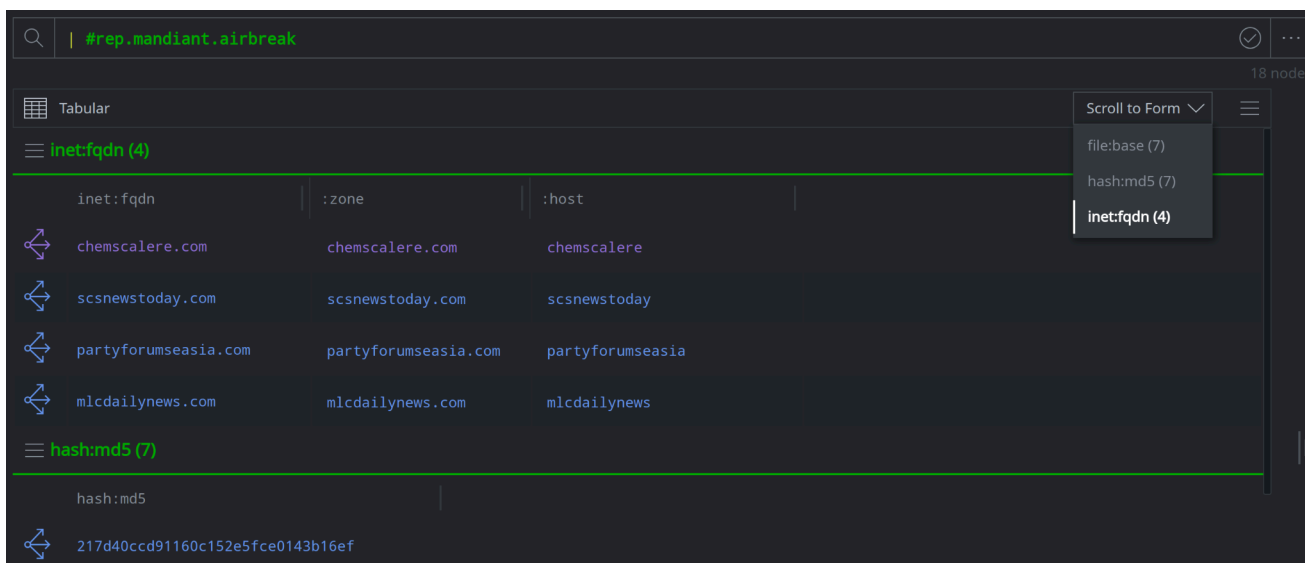


Tip: Synapse uses the **hashtag** symbol (#) to represent a tag applied to a node.

Synapse uses the pipe character (|) to run a **Storm** query even though we are in **Lookup** mode. We'll learn more about this when we start learning Storm!

Question 2: What kinds of nodes are returned by the query?

- The query returns **18 nodes** that Mandiant associates with AIRBREAK. These include:
 - Domains** (**inet:fqdn**)
 - MD5 hashes** (**hash:md5**)
 - File names** (**file:base**)



inet:fqdn	:zone	:host
chemscalere.com	chemscalere.com	chemscalere
scsnewstoday.com	scsnewstoday.com	scsnewstoday
partyforumseasia.com	partyforumseasia.com	partyforumseasia
mlcdailynews.com	mlcdailynews.com	mlcdailynews

hash:md5
217d40ccd91160c152e5fce0143b16ef

Exercise 6 Answer

Objective:

- Lift nodes using tags from Tag Explorer.




Question 1: How many nodes are returned by the query?

- The query returns **three** files:

Search: `#rep.vt.upx`

Tabular

file:bytes (3)

file:bytes	:mime	:mime:pe:compiled
 sha256:d6556996c2170b2c662dbda1650...	application/vnd.microsoft.porta...	2011/01/29 07:13:48
 sha256:24e37c38410ee2173b1a0988ed0...	application/vnd.microsoft.porta...	2003/01/14 20:27:18
 sha256:43ec5100c93603542ed476023a2...	application/vnd.microsoft.porta...	2012/04/24 09:59:18