

Synapse Bootcamp Module 3 Exploring and Filtering Data

v0.4 - May 2024

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Objectives

- Understand the Synapse Explore feature
- Use Explore in Tabular mode to examine data
- Use Explore in Force Graph mode to examine data
- Use the pivot menu to view connected data
- Filter your display using column filters
- Downselect results using the select and query menus



Exploring Data in Synapse



Exploring in Synapse

- The **Explore** feature allows you to navigate data in Synapse
- Synapse's data model represents:
 - Objects (nodes)
 - Their **connections** or relationships in the real world
- **Explore** allows you to see **all** the connections
 - Regardless of **how** they're connected
- View connections you expect
 - FQDN to DNS A to IPv4
- **Discover** connections you didn't know about
 - "This email used for phishing is also the technical contact for a netblock in Belarus"



Explore Demo



The Pivot Menu

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Using the Pivot Menu

- The **Explore** button shows you **all** connections
- The **pivot** menu shows you a **particular** connection
 - Focus your navigation more narrowly
- Allows you to view:
 - Related nodes
 - "Pivot from a DNS A record to its associated IPv4 address"
 - \circ Nodes that share a property value
 - "Pivot from a file to all files with the same imphash value"



Pivot Menu Demo



Filtering Data in Synapse

Filtering

- When you **filter** data, you take a set of results and "reduce" it
 - **Include** (keep) the things you want
 - **Exclude** (remove) the things you don't care about
- Two ways to filter in the Synapse UI
 - Column filters
 - Menu options (query, select)



Column Filters

- Limit or focus your **display**
 - Results don't **change** some are simply **hidden**

:dns:rev ↑ 🔤		
tfs2480.sipnav.in	Search	Q
	5 values 4 selected	Reset all
tfs2480.sipnav.in		(32)
	<pre>h176-227-195-36.host.redstation.co.uk(1)</pre>	
tfs2480.sipnav.in	🖂 io.uu3.net	(1)
	sink-1.virustracker	(3)
	└── tfs2480.sipnav.in	(12)
tfs2480.sipnav.in		

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Menu "Filters"

- **Change** the focus of your analysis / results
- Menu options allow you to:
 - Easily run a **new** query
 - "Restart" your navigation from the data that interests you
- query menu
- select menu



Filtering Demo



Summary

- Synapse's Explore feature allows you to easily view "connected" nodes
 - Examine data and relationships
 - See all connections
- Navigate more specific connections using the pivot menu
 - Pivot on a selected property, while maintaining breadcrumbs
- The query menu allows you to:
 - Filter existing results by resetting your query
 - Remove breadcrumbs and start over
 - The select menus help you choose nodes to query
- Column filters allow you to filter your display
 - Combine with pivot and / or query for flexible navigation