



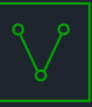
Vertex

Synapse Bootcamp

Module 4

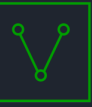
Modifying and Adding Data

v0.4 - May 2024

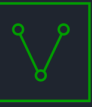


Objectives

- Know the various ways to edit properties in the UI
- Add and remove tags using the UI
- Understand basic tag use cases
- Add data using the Storm Query Bar
- Add data with the Add Node dialog
- Know other ways to add data to Synapse
- Know the use cases for the Synapse Ingest Tool

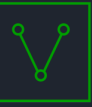


Modifying Data in Synapse

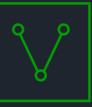


Modifying Data

- Make **changes** to existing data
- Change **properties**
 - Set, modify, delete
 - Ideally Synapse is creating data (and setting properties) **for** you
- Change **tags**
 - Add / apply, remove
 - Partial or full tags
- Most changes / simple edits done in **Research Tool**



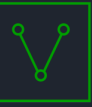
Modifying Data Demo



Deletes and Forked Views

- "Best practice" is to work in a **forked view**
 - Work in your private, writable layer
 - Merge changes into underlying view / layer when finished
- Deletes must occur in the layer where the data exists
 - In a fork, you cannot remove properties or tags that exist in "production"
 - "Deletes" do not get merged when you merge a view

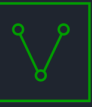
If you are working in a fork and delete a property (or remove a tag) and it doesn't "go away"
- it probably exists in an underlying layer.



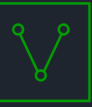
Deleting Nodes

- No means to delete nodes via the UI
- Synapse's data store represents objects and their **connections**
 - Technically, Synapse is an instance of an interconnected hypergraph
- Deleting the wrong data can leave "holes" in the graph
- Synapse incorporates safeguards
 - No simple UI / menu options to delete nodes
 - Working in a forked view
 - Permissions
 - Sanity-checking where possible
 - Requires use of **delnode** command

We recommend **limiting** the number of people who can delete data from your production view(s).



Adding / Removing Tags



Tag Refresher

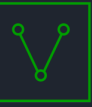
- Tags provide **context** for nodes
- Often represent observations or assessments
- Strongly encourage recording "who says what"
- Difference between:
 - What **you** assess (based on direct observation)
 - What **other people** assess (trust / take their word)
- Benefits:
 - Compare / contrast reporting
 - Evaluate sources (more / less trusted or reliable)



Common Tags - Other Organizations

- Uses **rep** top-level tag by default
- Format **rep.<reporting_org>.<thing_reported>**
- In rare cases, use **3p** tag element
 - o A source reporting info from another source

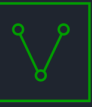
Type of Tag	Example
Things other people report (#rep) <ul style="list-style-type: none">• Applied by Power-Ups (e.g., VirusTotal)• Applied by analysts• rep.<org>.<thing_reported>	#rep.kaspersky.mal #rep.trend.pawnstorm #rep.clearsky.wilted_tulip #rep.shodan.self_signed #rep.vt.peexe
Things other people report about other people <ul style="list-style-type: none">• Applied by Power-Ups (e.g., MalwareBazaar, Mandiant)• rep.<org>.3p.<org>.<thing_reported>	#rep.malwarebazaar.3p.cape.smokeloader #rep.orkl.3p.malpedia



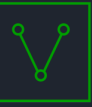
Common Tags - Our Assessments

- We use **cno** as the top-level tag
- Consider what you want track / how to structure

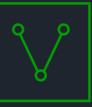
Type of Tag	Example
Things we assess are malicious	<code>#cno.mal</code>
Malware we track	<code>#cno.mal.redtree</code>
Threats we track	<code>#cno.threat.t15</code>
Things that are "neutral" but useful to know	<code>#cno.infra.anon.tor.exit</code> <code>#cno.infra.anon.vpn</code> <code>#cno.infra.dns.sink.hole</code>
Things that are "not bad" / can be ignored	<code>#cno.common</code>
Tags for my personal use <ul style="list-style-type: none">• <code><my_name>.<tag></code>	<code>#thesilence.review</code> <code>#thesilence.merge</code>



Adding / Removing Tags Demo

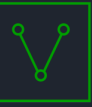


Adding Data to Synapse

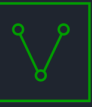


Adding Data

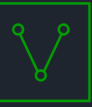
Method	Location in UI	Purpose
Lookup mode	Storm Query Bar mode	Paste in common indicators
Add Node dialog	Storm Query Bar menu	Guided way to create individual nodes
Upload file	Storm Query Bar menu	Download single file from URL Upload file(s) from disk Optionally use with File Parser
Import nodes file	Storm Query Bar menu	Load a subset of data (nodes, edges, tags) exported from another instance of Synapse
Workflows	Workflows Tool	Custom way to work with specific data



Adding Data Demo

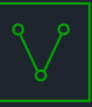


More on Adding Data

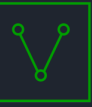


Data at Scale

- Analysts should be doing analysis
 - ...not hand-creating nodes
- Where possible, let Synapse do the work!
- How do I get data into Synapse?
 - Power-Ups
 - Automation
 - Spotlight Tool
 - Ingest Tool
- Data may be:
 - Pre-loaded (when you deploy Synapse)
 - Added via feeds
 - Added on demand



Data Demo



Summary

- **Edit** most properties inline
 - Widgets / helpers for some data types
- **Delete** properties by removing value or using delete (Details Panel)
- **Add Tags** with the Add Tags dialog
- **Remove tags** via Details Panel
- Multiple methods to **Add Data** to Synapse
 - **Power-Ups** are designed to automated data ingest
 - Users can leverage the **Query Bar** or the **Add Node** dialog
- Additional methods for particular needs
 - Upload file
 - Ingest Tool
 - Other