Synapse Bootcamp

Module 13

More Fun With Power-Ups

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Objectives

- Power-Up refresher
  - Power-Up help
  - Power-Ups, Storm commands, and Node Actions
- Know common options for Power-Up commands
- Understand the purpose of data source (`meta:source`) nodes
- Use Storm to run Power-Up commands
- Examine specific Power-Ups in depth

Power-Ups

Power-Ups

- Packages and services that add functionality to Synapse
- Act as connectors to other systems / services
- Perform a specific function
- Managed through Power-Ups Tool
  - Rapid vs Advanced

Power-Up Execution

- Power-Up functionality is provided by Storm commands
- May be added as Node Actions
  - Run with **default** options
- May be added as Workflows
  - Custom UI for some commands
- Can run Storm commands manually
  - Customize (e.g., via switches)
  - Not suitable for Node Actions (e.g., 'search' commands)
  - Leverage as part of automation

Power-Up Refresher - Demo

Common Power-Up Options

Common Options

- Where applicable, Power-Ups commands have a similar set of options

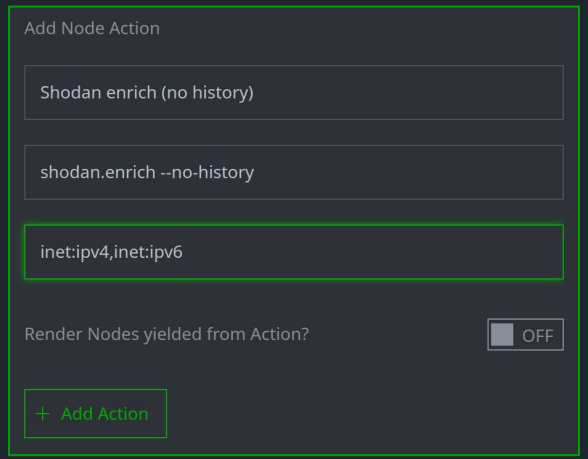
Option	Meaning	Use Cases
`--debug`	Output additional detail to the Console	Troubleshooting
`--yield`	Return the main nodes created by the command	You want to see the results, not the input nodes There are no input nodes (e.g., sync or `search` commands)
`--size`	Limit the number of results returned Override the default number of results	Obtain a sampling of data Limit API usage Request additional data beyond the default value
`--asof`	Override the default cache value (30 days) (**currently being deprecated**)	Force the command to query for more recent data

Custom Node Actions

- Run a standard Power-Up command with different options:
  - Storm Query Bar:

```
inet:ipv4=152.228.179.67 | shodan.enrich --no-history
```

  - Create a custom Node Action:



Power-Ups and Sources

- Power-Ups that add data create **source** (`meta:source`) nodes
- Described in the Power-Up User Guide

- Nodes returned linked via **seen** light edges

```
meta:source:name='virustotal api' -(seen)> file:bytes
```

```
inet:ipv4=217.7.2.112 <(seen)- meta:source
```

- Track **where** data came from within Synapse

Power-Ups - Demo

Power-Up Examples

Sample Power-Ups

- Synapse supports a broad range of Power-Ups
  - Different purposes, features, requirements…
- Every organization is different
  - Power-Ups you have access to depend on your configuration / access
- A few Vertex Power-Ups as examples:
  - synapse-fileparser
  - synapse-mitre-attack

synapse-fileparser

- Vertex "Swiss army knife" for extracting data from files (`file:bytes`)
  - Advanced Power-Up - requires Axon storage
- Extract and model metadata for some MIME types
- Recursively parse files
- Extract and link indicators
- View ASCII strings
- View hex

synapse-mitre-attack

- Vertex publicly available Power-Up
  - Rapid Power-Up
- Loads and models the current MITRE ATT&CK Matrix
  - Enterprise / Mobile / ICS
  - Tactics, Techniques, Groups, Software, Mitigations, Campaigns
- Reference and navigate ATT&CK from within Synapse
- Parse / extract and link MITRE ATT&CK elements
  - From node properties (e.g., `inet:service:message:text`)
  - From files (`file:bytes`)

Power-Ups Demo

Summary

- **Power-Ups** add functionality to Synapse
- Most Power-Ups use **Storm commands** to add capabilities
  - Commonly used commands added as **Node Actions** with default options
- Power-Up Storm commands can run:
  - In the **Storm Query Bar**
  - As **custom** Node Actions
- Many Power-Ups share a common set of **command options**
- Precise purpose / functionality is specific to each Power-Up
- **Synapse-fileparser** and **synapse-mitre-attack** are two examples