

Synapse Bootcamp - Module 5

Power-Ups - Answer Key

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Answer Key

Installing Power-Ups

Exercise 1 Answer

Objective:

- Understand how to view and install Power-Ups.
- After completing the setup steps in this exercise, the following **Rapid Power-Ups** should be visible on the **Installed** tab of the **Power-Ups Tool** (some of these Power-Ups were already installed in your demo instance):
 - synapse-alienvault
 - synapse-malshare
 - synapse-malwarebazaar
 - synapse-mitre-attack
 - synapse-nist-nvd
 - synapse-rss
 - synapse-tor
 - synapse-us-cisa
 - synapse-virustotal
 - vertex-threat-intel

AVAILABLE INSTALLED UPDATES DEPENDENCIES			
Rapid Power-Ups			
synapse-alienvault documentation v1.14.0			
Synapse-AlienVault adds new Storm commands to allow you to query the AlienVault API using your existing API key. author: The Verlos Project LLC.	Synapse-Malshare adds new Storm commands to allow you to query the Malshare API using your existing API key. author: The Vortor Protect LLC.	Synapse-MalwareBazaar adds new Storm commands to allow you to query the MalwareBazaar API.	Synapse-MITRE ATT&CK adds Storm commands to automatically populate MITRE ATT&CK definitions and allow users to match and link references to MITRE author: The Vertex Protect ALC
Remove			
synapse-nist-nvd <u>documentation</u> v2.1.1			
Synapse-NIST-NVD adds new Storm commands to allow you to query the NIST National Vulnerability Database (NVD) API to ingest vulnerabilities.	Synapse-RSS adds new Storm commands to allow you to ingest RSS feeds.	Synapse-Tor adds new Storm commands to automatically tag TOR exit nodes.	Synapse-US-CISA adds new Storm commands to ingest data sources published by the US CISA, including the Known Exploited Vulnerabilities list.
author: The Vertex Project, LLC.			
Remove			
synapse-virustotal <u>documentation</u> v4.19.1			
Synapse-VirusTotal adds new Storm commands to allow you to query the VirusTotal API using your existing API key.	The Vertex-Threat-Intel Power-Up provides a structured means for analysts to manage operational and strategic threat intelligence data via a dedicated Workflow.		
author: The Vertex Project, LLC.			
Remove	Remove		



Configuring Power-Ups

Exercise 2 Answer

Objective:

• Understand how to configure Power-Ups (specifically, how to set API keys for Power-Ups that may require them).

After completing the steps in this exercise, you should have configured the API keys and other information needed to access the vendors' services / API endpoints using your Synapse Power-Ups.

We encourage you to complete **Exercise 3** and **Exercise 4** at this point!

If time allows (or you want to perform the steps below after class) the following commands can be used to check your quotas and verify your keys are set correctly.

Synapse-VirusTotal

• In the **Console Tool**, in the **Storm Query Bar**, click **Storm Mode Selector** and choose **Storm** mode:



 Enter the following in the Storm Query Bar and press Enter to run the command: virustotal.info



<pre>Optic Console Initialized > virustotal.info Privileges: downloads-tier-2: false downloads-tier-1: false intelligence: false private: false click_to_accept: false vtinsights: false file-feed-without-av-results: false url-feed: false sales-staff: false staff: false domain-feed: false file-feed: false inteltigence: false intertis: false creditcards: false file-behaviour-feed: false monitor: false oem_click_to_accept: false vtdiff-api: false vtdiff-ui: false intelligence-search-tier-2: false intelligence-search-tier-1: false retrohunt-tier-3: false retrohunt-tier-2: false retrohunt-tier-2: false retrohunt-tier-1: false retrohunt-tier-1: false</pre>		
Quota		
private_scans_per_minute monitor_uploaded_files monitor_storage_files		
ل inet:fqdn=vertex.link		

Synapse-AlienVault

• LevelBlue / AlienVault OTX does not have a 'quotas' endpoint and does not limit access to the free Open Threat Exchange (OTX) platform.

Synapse-MalShare

• In the **Console Tool**, enter the following in the **Storm Query Bar** and press **Enter** to run the command:

malshare.quota



Power-Up Node Actions

Exercise 3 Answer

Objectives:

- Understand the relationship between Power-Up commands and Node Actions.
- Know how to find information on installed Node Actions and the types of nodes that can be enriched by a Power-Up.

Question 1: How many Node Actions are installed by the synapse-virustotal Power-Up?

• The **synapse-virustotal** Power-Up adds **eleven** Node Actions to Synapse (as of v4.19.1 of the Power-Up):





Power-Ups add **Storm commands** that implement the Power-Up's features. A **Node Action** is a right-click context menu option that makes it easy for you to run those Storm commands.

A Power-Up typically includes Node Actions for a **subset** of the Storm commands installed by the Power-Up. Storm commands that **operate on nodes** are installed as Node Actions.

Storm commands for other tasks - to set an API key or check your API quota - do not operate on nodes. These commands need to be run from the Storm Query Bar (e.g., in the Console Tool).

All of the Storm commands installed by a Power-Up can be found in the Power-Up's **Package Documentation.** We'll talk more about Power-Ups in a later module!

Question 2: What kinds of data (nodes) can be enriched using this Power-Up?

- Based on the **Admin Guide** documentation (**Node Action** section), the synapse-virustotal Power-Up can be used to enrich the following (for v4.19.1 of the Power-Up):
 - "Files", using either a file:bytes node or any of the common hash values (hash:md5, hash:sha1, hash:sha256)
 - Domains (inet:fqdn nodes)
 - IPv4 addresses (inet:ipv4 nodes)
 - URLs (inet:url nodes)

Enriching Data with Power-Ups

Exercise 4 Answer

Objectives:

- Know how to run Power-Up Node Actions to enrich nodes.
- Understand changes that are made when enrichment occurs.

Question 1: What nodes (if any) are present in your results when you Explore from the FQDN www.energym63.com?



• The only node adjacent to FQDN www.energym63.com is the domain's zone:



Question 2: What new data (if any) is present after you run the AlienVault PDNS Node Action?

• After running the AlienVault PDNS Node Action, two DNS A records (**inet:dns:a** nodes) are present for the FQDN, as well as a **meta:source** node for the AlienVault API (as of November 2024):

query > FODN				
\equiv \checkmark inet:fo	\equiv \sim inet:fqdn (1)			
	inet:fqdn 📃		:host	
domain ->	energym63.com	energym63.com	energym63	
\equiv \checkmark inet:d	\equiv \sim inet:dns:a (2)			
	:fqdn 📃 🗍	:ipv4 =	.seen[min]	.seen[max] 🕇
<pre></pre>	www.energym63.com	46.182.4.120	2021/04/21 23:42:23	2024/01/23 18:33:43.001
<pre></pre>	www.energym63.com	46.182.5.20	2019/08/12 17:34:44	2020/02/28 03:01:04.001
\equiv \vee meta:source (1)				
		:type		
<(seen) -	alienvault api	alienvault		

Question 3: What new data (if any) is present after you run the VirusTotal PDNS Node Action?



• After running the VirusTotal PDNS Node Action, one additional DNS A record is present (as of November 2024):

\equiv \sim inet:dns:a (3)					
:	fqdn 📃	:ipv4		.seen[min]	.seen[max]
🔆 :fqdn <- 🗤	www.energym63.com	46.182.5.20		2019/08/12 17:34:44	2020/02/28 03:01:04.001
🔆 :fqdn <- N	www.energym63.com	217.16.10.2		2018/07/24 05:51:47	2018/07/24 05:51:47.001
Geration → Gerat	www.energym63.com	46.182.4.120		2021/01/29 11:38:58	2024/01/23 18:33:43.001

Question 4: What new data (if any) is present after you run the VirusTotal Communicating Files Node Action?

• The FQDN www.energym63.com is now linked to five files (file:bytes) nodes (as of November 2024). These are the files that VirusTotal says "communicate with" the FQDN:



VirusTotal's "communicating files" API does not specify what the "communicating" relationship is. In Synapse, we can only show that the file (**file:bytes**) "references" ("communicates with") the FQDN.

Other Node Actions may return more data. For example, using the **actions** > **synapse-virustotal** > **file behavior** Node Action may return sandbox execution data that shows the file made a DNS query (**inet:dns:request**) for the FQDN.