VIPER - USING MISP FROM YOUR TER-MINAL

MISP - THREAT SHARING

CIRCL / TEAM MISP PROJECT

MISP Project https://www.misp-project.org/

13TH ENISA-EC3 WORKSHOP



Viper - Using MISP from your terminal

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VIPER - MAIN IDEAS

Viper is a **binary analysis and management framework**. Its fundamental objective is to provide a solution to **easily organize** your collection of **malware** and **exploit samples** as well as your collection of **scripts** you created or found over the time to facilitate your daily research. Think of it as a **Metasploit for malware researchers**: it provides a terminal interface that you can use to **store**, **search** and **analyze** arbitrary files with and a framework to **easily create plugins** of any sort. Viper - Using MISP from your terminal

└─Viper - Main ideas

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Solid CLI
 Northy of modules (PE files, *office, ELF, APK, ...)
 Connection to grd party services (MISF) Virus Total, cuckoo)
 Connections to grd party tools (IDA, radare)
 Locale storage of your rown zoo
 Django interface is available (IVe been told)

Solid CLI

- Plenty of modules (PE files, *office, ELF, APK, ...)
- Connection to **3rd party services** (MISP, VirusTotal, cuckoo)
- Connectors to 3rd party tools (IDA, radare)
- Locale storage of your own zoo
- Django interface is available (I've been told)

	++
Command	Description
apk	Parse Android Applications
clamav	Scan file from local ClamAV daemon
cuckoo	Submit the file to Cuckoo Sandbox
debup	Parse McAfee BUP Files
editdistance	Edit distance on the filenames
elf	Extract information from ELF headers
email	Parse eml and msg email files
exif	Extract Exif MetaData
fuzzy	Search for similar files through fuzzy hashing
html	Parse html files and extract content
ida	Start IDA Pro
idx	Parse Java IDX files
image	Perform analysis on images
jar koodous	There Java Jak archives
lastline	Submit files and retrieve reports from LastLine (default will print short summary)
macho	Get Macho OSX Headers
misp	Upload and guery IOCs to/from a MISP instance
office	Office Document Parser
pdf	Parse and analyze PDF documents
pdns	Ouery a Passive DNS server
pe	Extract information from PE32 headers
pssl	Ouerv a Passive SSL server
pst	Process PST Files for Attachment
r 2	Start Radare2
rat	Extract information from known RAT families
reports	Online Sandboxes Reports
shellcode	Search for known shellcode patterns
size	Size command to show/scan/cluster files
strings	Extract strings from file
swf	Parse, analyze and decompress Flash objects
triage	Perform some initial triaging and tagging of the file

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PyMISP & Viper

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└─PyMISP & Viper

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PYMISP & VIPER

Full featured CLI for MISP
 Remote storage of your zoo
 Search / Cross check with VirusTotal
 Create / Update / Show / Publish Event
 Download / Upload Samples
 Mass export / Upload / Download
 Get Yara rules

Full featured CLI for MISP

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MISP MODULE

Upload and query IOCs to/from a MISP instance

positional arguments:

{upload,download,search,check_hashes,yara,pull,create_event,add,show,open,publish,ve rsion.store}

Send malware sample to MISP.
Download malware samples from MISP.
Search in all the attributes.
Crosscheck hashes on VT.
Get YARA rules of an event.
Initialize the session with an existing MISP event.
Create a new event on MISP and initialize the session
with it.
Add attributes to an existing MISP event.
Show attributes to an existing MISP event.
Open a sample from the temp directory.
Publish an existing MISP event.
Returns the version of the MISP instance.
Store the current MISP event in the current project.

optional arguments: -h, --help

--url URL

-v, --verify

show this help message and exit URL of the MISP instance -k KEY, --kev KEY Your key on the MISP instance Disable certificate verification (for self-signed) Viper - Using MISP from your terminal

-MISP Module

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└─Viper & VT

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Searches for hashes/ips/domains/URLs from the current
MEP event, or download the samples
Download samples from current MEP event
Download all samples from all the MISP events of the

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- Download samples from current MISP event
- Download all samples from all the MISP events of the current session

VIRUSTOTAL MODULE

Lookup the file on VirusTotal

optional arguments:

operonae argomenes.	
	show this help message and exit
search SEARCH	Search a hash.
-c COMMENT [COMMENT .],comment COMMENT [COMMENT]
	Comment to add to the file
	Hash of the file to download
	List the downloaded files
	download open DOWNLOAD OPEN
do bouncente_or en,	Open a file from the list of the DL files (ID)
-don DOWNLOAD OPEN NA	ME,download open name DOWNLOAD OPEN NAME
doll DowneonD_of En_INA	Open a file by name from the list of the DL files
	(NAMe)
-dd DOWNLOAD DELETE	download delete DOWNLOAD DELETE
-uu DOWNLOAD_DELETE,	Delete a file from the list of the DL files can be an
	ID or all.
e eubmit	
-s,submit	Submit file or a URL to VirusTotal (by default it only
	looks up the hash/url)
	IP address to lookup in the passive DNS
-dm DOMAIN,domain	
	Domain to lookup in the passive DNS
-u URL,url URL	
	Turn on verbose mode.
-m {hashes,ips,domain	s, urls, download, download_all},misp {hashes, ips, domains
download,download_all}	
	Searches for the hashes, ips, domains or URLs from the
	current MISP event, or download the samples if
	possible. Be carefull with download all: it will
	download *all* the samples of all the MISP events in

the current project.

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└─VirusTotal Module



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EXTRA FEATURES

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└─Extra features

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Link to a MISP event
 Local storage of the MISP event
 On the fly cross-check of MISP atributes with 3rd party
services
 Never leaving your CL!

Link to a MISP event

- Local storage of the MISP event
- On the fly cross-check of MISP atributes with 3rd party services
- Never leaving your CLI!

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-Other modules

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Fully featured CLI for Passive SSL
 Fully featured CLI for Passive DNS
 Can launch Radare2 or IDA

- Fully featured CLI for **Passive SSL**
- Fully featured CLI for **Passive DNS**
- Can launch Radare2 or IDA

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	URL] [-u USER] [-p PASSWORD] [-i IP] [-c CERT] [-v] [-m {ips}]
Query a Passive SSL ser	ver
optional arguments: -hhelp	show this help message and exit
url URL	URL of the Passive SSL server (No path) Username on the PSSL instance
-p PASSWORD,passwo	Password on the PSSL instance
-i IP,ip IP -c CERT,cert CERT	IP to query (can be a block, max /23). SHA1 of the certificate to search.
-f FETCH,fetch FET	CH SHA1 of the certificate to fetch.
-v,verbose -m {ips},misp {ips]	Turn on verbose mode. }
	Searches for the ips from the current MISP event

PASSIVE DNS

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Passive DNS

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viber = pdrs =h viage: pdvs (-h) (art (avers)	
Query a Packine DBS Ger	
onitional arguments: sparry	
optional acqueents: -b,batgs pri B0, -s 1208,ster USBC -p Passuddo,passes -s,ser2000 -s (ips,demains),s	re Passante on the FBMS instance Tana an writels and .

viper > pdns -h usage: pdns [-h] [--url URL] [-u USER] [-p PASSWORD] [-v] [-m {ips,domains}] [query] Query a Passive DNS server positional arguments: Domain or IP address to query optional arguments: show this help message and exit URL of the Passive DNS server -h, --help --url URL -u USER, --user USER Username on the PDNS instance -p PASSWORD, --password PASSWORD Password on the PDNS instance Turn on verbose mode. -m {ips,domains}, --misp {ips,domains} Searches for the ips or domains from the current MISP



https://github.com/MISP/PyMISP

- https://github.com/MISP/
- https://github.com/viper-framework/viper
- We welcome new functionalities and pull requests.

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-Q&A

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bit the con/HISP/PyHISP
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