# VIPER - USING MISP FROM YOUR TER-MINAL

**MISP - THREAT SHARING** 

CIRCL / TEAM MISP PROJECT

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

**CIISI-IE DUBLIN 2024** 



Viper - Using MISP from your terminal

2024-07-08



### 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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-Viper

Solid CLI
 Plenty of modules (PE files, \*office, ELF, APK, ...)
 Connection to <u>jrd party services</u> (MSP, VirusTotal, cuckoo)
 Connectors to <u>jrd party tools</u> (IDA, radare)
 Locale storage of your own 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)

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+   Command	++   Description
command 	Perser Android Applications Parse Android Applications Scan file from local ClamAV daemon Submit the file to Cuckoo Sandbox Parse McAfee BUP Files Edit distance on the filenames Extract information from ELF headers Parse met and msg email files Extract Exif MetaData Search for similar files through fuzzy hashing Parse html files and extract content Start IDA Pro Parse Java IDX files Perform analysis on images Parse Java JDX riles Parse and retrieve reports from LastLine (default will print short summary) Get Macho OSX Headers Upload and query IOCs to/from a MISP instance Office Document Parser Parse and analyze PDF documents Query a Passive DNS server Extract information from PE32 headers Query a Passive SSL server Process PST Files for Attachment Start Radare2 Extract information from known RAT families Online Sandboxes Reports
shellcode   size   strings   swf   triage	Star command to show/scan/cluster files Extract strings from file Parse, analyze and decompress Flash objects Perform some initial triaging and tagging of the file

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### **PyMISP & Viper**

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└─PyMISP & Viper

PYMISP & VIPER

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

### Full featured CLI for MISP

- Remote storage of your zoo
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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}

upload	Send malware sample to MISP.
download	Download malware samples from MISP.
search	Search in all the attributes.
check_hashes	Crosscheck hashes on VT.
yara —	Get YARA rules of an event.
pull	Initialize the session with an existing MISP event.
create_event	Create a new event on MISP and initialize the session
	with it.
add	Add attributes to an existing MISP event.
show	Show attributes to an existing MISP event.
open	Open a sample from the temp directory.
publish	Publish an existing MISP event.
version	Returns the version of the MISP instance.
store	Store the current MISP event in the current project.
stional avaimants.	

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) 08 2024-07

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### -MISP Module



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- Searches for hashes/ips/domains/URLs from the current MISP event, or download the samples
- 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:

-h,help show this help message and exit	
search SEARCH Search a hash.	
-c COMMENT [COMMENT],comment COMMENT [COMMENT]	
Comment to add to the file	
-d,download Hash of the file to download	
-dl,download list List the downloaded files	
-do DOWNLOAD_OPEN,download_open_DOWNLOAD_OPEN	
Open a file from the list of the DL files (ID)	
-don DOWNLOAD OPEN NAME,download open name DOWNLOAD OPEN NAME	
Open a file by name from the list of the DL files	
(NAME)	
-dd DOWNLOAD DELETE,download delete DOWNLOAD DELETE	
Delete a file from the list of the DL files can be ar	
ID or all.	
-s,submit Submit file or a URL to VirusTotal (by default it onl	LY
looks up the hash/url)	
-i IP,ip IP IP address to lookup in the passive DNS	
-dm DOMAIN,domain DOMAIN	
Domain to lookup in the passive DNS	
-u URL,url URL URL to lookup on VT	
-v,verbose Turn on verbose mode.	
-m {hashes,ips,domains,urls,download,download all},misp {hashes,ips,doma	ain
download, download all}	
Searches for the hashes, ips, domains or URLs from the	ne
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



### **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

## PASSIVE SSL

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VERT * \$2515 seage: past (-5) (art BEL (-a 1988) (-p PAASAS (-1 FETCH) (-v (-p))	
Query & Facilies 331 Geover	
<pre>MIIAN LogAmentil MIIAN LogAmentil -addition -a</pre>	rer (No path) and St. mas /231. o tearch. o tetch.

viper > psslh	
usage: pssl [-h] [url [-f FETCH] [	URL] [-u USER] [-p PASSWORD] [-i IP] [-c CERT] -v] [-m {ips}]
Query a Passive SSL serv	er
optional arguments:	
'−h,helṕ	show this help message and exit
url URL	URL of the Passive SSL server (No path)
-u USER,user USER	Username on the PSSL instance
-p PASSWORD,passwor	d PASSWORD
	Password on the PSSL instance
	IP to query (can be a block, max /23).
	SHA1 of the certificate to search.
-f FETCH,fetch FETC	
	SHA1 of the certificate to fetch.
-v,verbose	
-m {ips},misp {ips}	
	Searches for the ips from the current MISP event

## PASSIVE DNS

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olage: pars (-h) (art (avers)	185] [-1 1888] [-2 MARKER] [-2] [-8 (10.4681293)]
Query a Pacifie Obs Ger	
optional arguments: -b,belg gel BR -s USER,ster USER -p Pattoleto -t,serbood -t, -terbood -t, -terbood -terbo	

viper > pdns -h usage: pdns [-h] [url [query]	URL] [-u USER] [-p PASSWORD] [-v] [-m {ips,domains}]
Query a Passive DNS ser	ver
positional arguments: query	Domain or IP address to query
url URL -u USER,user USER -p PASSWORD,passwo	Password on the PDNS instance Turn on verbose mode.



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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