# VIPER - USING MISP FROM YOUR TER-MINAL

**MISP - THREAT SHARING** 

CIRCL / TEAM MISP PROJECT

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

**MISP PROJECT** 



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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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2022-09

Solid CLI
 Plenty of modules (PE files, \*office, ELF, APK, ...)
 Connection to <u>and party services</u> (MISF, VirusTotal, cuckoo)
 Connectors to <u>and 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)
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- Locale storage of your own zoo
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Command	Description	ļ
apk clamav cuckoo debup editdistance elf email exif fuzzy html ida ida ida ida ida jar jar gat bettine macho misp office pdf pst pst rat reports shellcode	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 end and msg email files Extract Exif MetaData Search for similar files through fuzzy hashing Parse hull files and extract content Start IDA Pro Parse Java IDX files Parse Java JAR archives Interact with Koodous Submit files and retrieve reports from LastLine (default will print short summary) Get Macho OSX Headers Query a Passive DNS server Extract information from PE32 headers Query a Passive SNS server Process PST Files for Attachment Start Radare2 Extract information from known RAT families Online Sandboxes Reports	
size strings swf triage	Size command to show/scan/cluster files Extract strings from file Parse, analyze and decompress Flash objects Perform some initial triading 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
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 Mass export / Upload / Download
 Get Yara rules

## Full featured CLI for MISP

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### **MISP MODULE**

viper > misp -h usage: misp [-h] [--url URL] [-k KEY] [-v] {upload,download,search,check\_hashes,yara,pull,create\_event,add,show,open,

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.

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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Searches for hashes/ips/domains/URLs from the current
MESP event, or download the samples
Oownload samples from current MESP event
Oownload all samples from all the MISP events of the
current exceede

- 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:

optional arguments.	
-h,help	show this help message and exit Search a hash.
search SEARCH	Search a hash.
-c COMMENT [COMMENT .	],comment COMMENT [COMMENT]
	Comment to add to the file
-ddownload	Hash of the file to download
	List the downloaded files
	download_open_DOWNLOAD_OPEN
-do Download_ofen,	Open a file from the list of the DL files (ID)
-don DOWNLOAD_OPEN_NA	<pre>\ME,download_open_name_DOWNLOAD_OPEN_NAME</pre>
	Open a file by name from the list of the DL files
	(NAMe)
-dd DOWNLOAD_DELEIE,	download_delete DOWNLOAD_DELETE
	Delete a file from the list of the DL files can be an
	ID or all.
-s,submit	Submit file or a URL to VirusTotal (by default it only
	looks up the hash/url)
-i IP,ip IP	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.
	ns,urls,download,download all},misp {hashes,ips,domair
download, download_all}	is, or cs, down coad, down coad_accj,misp [nashes, ips, domain
downcoad, downcoad_actj	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



#### **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 CLI!

#### 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!

└─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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#### Passive SSL

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

# 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 -m (ips,demains),m	re Passante on the FBMS instance Tana an writels and .

viper > pdns -h usage: pdns [-h] [url [query]	URL] [-u USER] [-p PASSWORD] [-v] [-m {ips,domains}]			
Query a Passive DNS server				
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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