Threat Intelligence Based Incident Correspondence Process Simulation Experiment Help Manual

This lab manual is to help users test a machine's resilience to DDos attacks using a threat intelligence-based incident response process.

This project is open source in nature, and before you start testing, make sure that your testing actions are authorized and will not cause harm to any person or organization. Please ensure that you will not use the attack scripts designed by the author for any illegal purposes.

Finally, thank you for reading my research paper. I hope my research paper can provide you with research ideas and improve your organization's cyber defenses.

Part1.MISP Installation and Setup.

First, you need to use the installation link(https://misp.github.io/MISP/) provided by MISP to download the installation script that corresponds to the virtual environment you are using. This guide uses the ubuntu2004 virtual environment as an example.

MISP

Welcome to the official MISP Install Guides

On the following pages you will find stock install instructions for getting a base MISP system running.

- INSTALL.ubuntu2204
- INSTALL.ubuntu2004
- INSTALL.ubuntu1804
- INSTALL.rhel8
- INSTALL.rhel7
- INSTALL.kali
- INSTALL.NetBSD
- INSTALL.OpenBSD
- INSTALL.centos7
- INSTALL.debian10
- INSTALL.tsurugi

For full documentation visit misp-book.

Select the installation script for your computer.

Correctly install the MISP on your virtual environment terminal and obtain the IP address of your MISP. Log in to the MISP initialization screen fr om your browser. Also, if the manual on the official website doesn't solve your problem, you can watch this Youtube installation video(https://www.youtube.com/watch?v=nZcTc60YsIs). This video will solve most of your problems with the installation part.

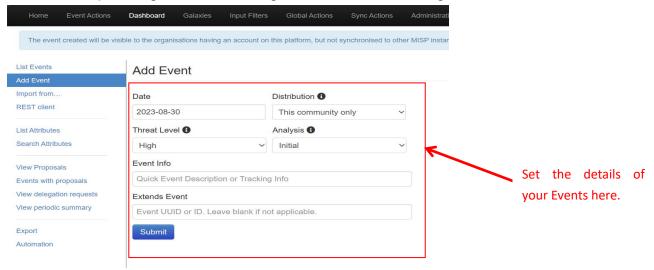
```
tcp 0 0 127.0.0.53:53 0.0.0.0:* LISTEN -
tcp 0 0 127.0.0.53:53 0.0.0.0:* LISTEN -
tcp6 0 0 1:1:631 :::* LISTEN -
tcp6 0 0 ::1:6379 :::* LISTEN -
tcp6 0 0 0::1:6379 :::* LISTEN -
tcp6 0 0 0::443 :::* LISTEN -
mtsp@ubuntu:-$ ifconfig
ens33: flags=4i63<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.57.130 netmask 255.255.255.0 broadcast 192.168.57.255
inet fe80::a527;7600:*dexnet_3dr7 prefixlen 64 scopeid 0x20when you have successfully
RX packets 1183268 bytes 1756060448 (1.7 GB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 208483 bytes 13160704 (13.1 MB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
inet6 ::1 prefixlen 128 scopeid 0x10<hoods
loop txqueuelen 1000 (Local Loopback)
RX packets 10065 bytes 8799537 (8.7 MB)
RX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

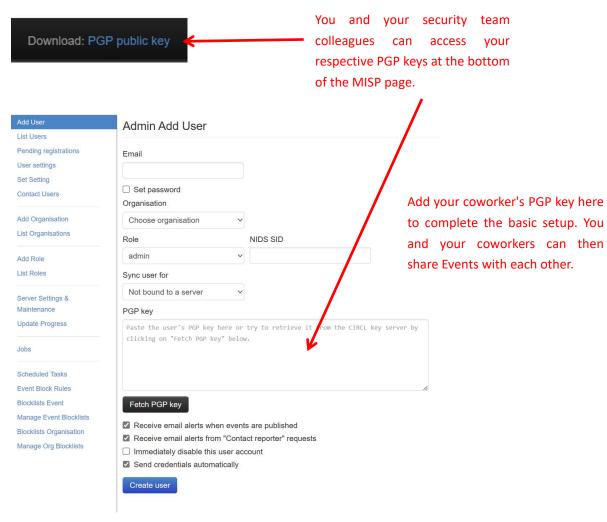
TX packets 10065 bytes 8799537 (8.7 MB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Part2.Experimental preparation.

First, you need to create an Events on MISP for yourself or your organization. for uploading or downloading relevant threat intelligence.

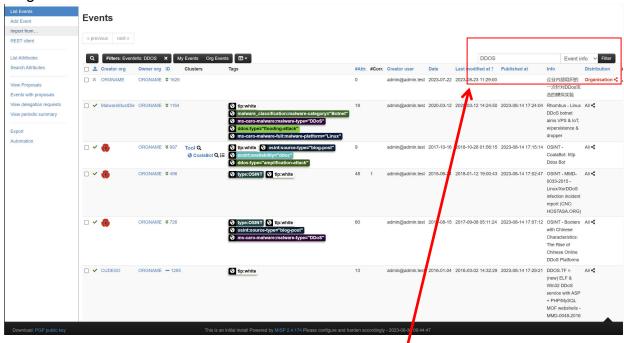


If you have a security team working with you on the experiment. You can set up an organization where members of the organization can share the MISP and adjustments to the status of events.



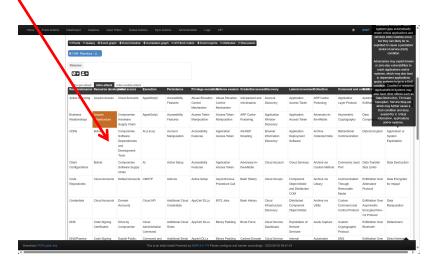
Part3.Acquisition of threat information

If you have a need to get threat intelligence, you can refer to the image below.On the left side of the MISP page, you can see the List Events button. In this screen you can see threat intelligence published by many organizations.



By searching, you will access threat intelligence information issued by a number of organizations.

Retrieve the threat intelligence you need by searching the search bar for tags for the type of attack you want to learn about.



Part4.DDos Attack Test

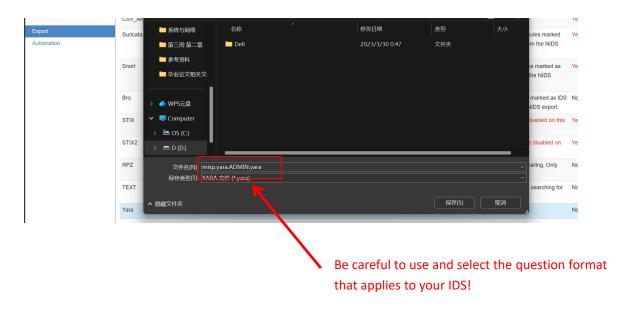
The author has created an open source DDos attack script for stress re sistance testing for you or your organization. The author uploaded the at tack script code to GitHub(https://github.com/MINGZEwantastudy/DDos-Att ack-Scripts.git). If youneed it you can download and use it yourself.



Modify the number of threads according to the performance of your machine. An unreasonable number of threads may cause your computer to lag.

Part5.Import threat intelligence into your own IDS.

More your needs, you can feed the threat intelligence provided by MISP into your IDS. The downloadable questions support a variety of formats (please refer to the official MISP guide for details).



Part6.Uploading Threat Intelligence

Finally, you can upload your threat intelligence to the Events you created earlier. Provide critical information to other members of the community. You can also rate the threat intelligence information posted by others.

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☐ Date ?	Category	Туре	Value	Tags	Galaxies	Comment	Correlate	Related Events		DS Distributio	n Sightings	Activity	Actions
2023-08-27	Payload delivery	filename	lgLHvljzbFm68k	⊗+≗ +	⊗+≗ +	payload filename in C2 (scan-able during download)		Q	(Inherit	© ♥ ⊁ (1/0/0)		* 9 î
2020-05-23	Internal reference	link	https://gist.github.com/unixfreaxjp/7b8bd6be614f7a051fc9a9da760d3138	⊗+ ≜+	⊗+≜ +	Threat report (contains more details)		Q	(Inherit	Ø ♥ ⊁ (0/0/0)		•
2020-05-23	Network activity	ip-dst	204.11.49.132	3+2+	0+2+	C2		Q	(Inherit	(0/0/0)		* ● 🗑
2020-05-23	Network activity	ip-dst	196.53.114.199	3+2+	0+ 2 +	C2		Q	(Inherit	(0/0/0)		* ● 盲
2020-05-23	Social network	other	Imfao	⊕+ ≜+	⊗+≜ +	botherder handles hardcoded	✓	Q	(Inherit	Ø ♥ ≯ (0/0/0)		•
2020-05-23	Social network	other	Leonidus	⊗+ ≜+	⊗+ [≛+	botherder handles hardcoded		Q	(Inherit	(0/0/0)		•
2020-05-20	Social network	other	Crypto	⊗+ [≗+	⊗+ [≗+	botherder handles hardcoded		Q	(Inherit	Ø ♥ ⊁ (0/0/0)		•
2020-05-23	Social network	other	error401	⊗+≜ +	⊗+≜ +	botherder handles hardcoded		Q	(Inherit	(0/0/0)		•
2020-05-23	Social network	other	dmt	⊗+ ≗+	Ø+ ± +	botherder handles hardcoded		Q	(Inherit	Ø ₽ ≯ (0/0/0)		•