WORKING OF VELOCIRAPTOR

Velociraptor is an open source end point tools used for threat hunting, incident response and Digital Forensics purpose.

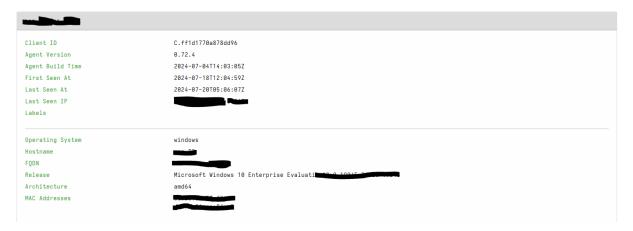
After installation we need to open GUI. So open browser and type your ip and port number [i.e. https://IP:8889]. Enter user name and password you mentioned.

We fill find a device as client in it. We can find an interface as below mentioned if we clicked on search icon.



You can find multiple clients if you installed in more devices. Since we installed in only single device, a single client is present. Now click on the client ID.

We will information about client.

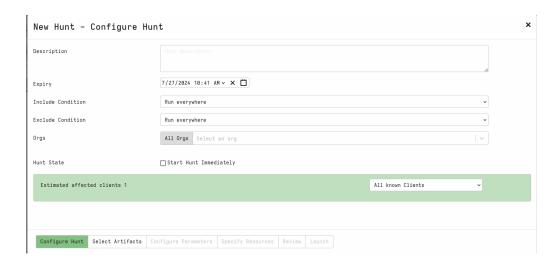


Now we will create a hunt that will fetch all the process of windows.

In order to create a hunt we can navigate to the hunt manager present at the left side of the screen.



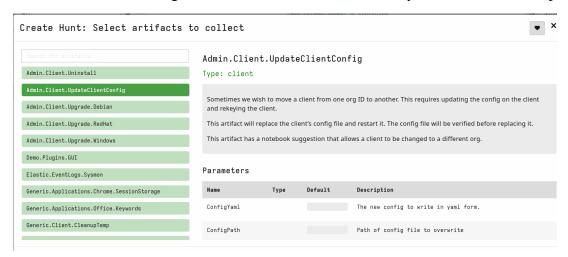
The table is empty. To create a new hunt click on the plus icon.



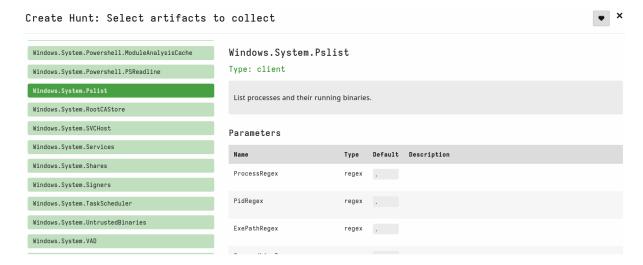
Fill out the details and select options as per your requirements. After filling out the data, click on the select artifacts option.

Artifacts are the reason what kind of information you request, they will fetch it from client. There will be lot of artifacts presenet, we need to select appropriate artifact.

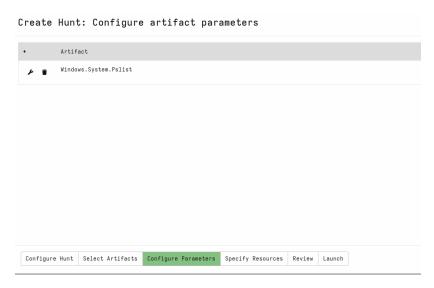
If we click on the artifact it will give a detailed overview what activity that the artifact will perform.



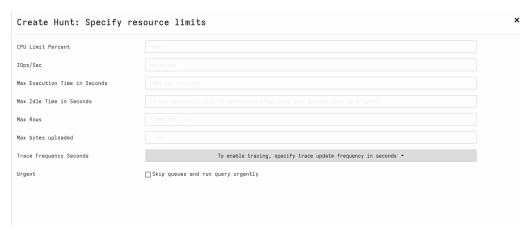
Since I want to list out all the process that are present in the client. I am going to use ps list.



Click on the artifact and click configure parameters. You can find out the artifacts that you have selected in configure parameters



For the specify resources option specify as per system configurations. Otherwise leave it as default. No need to enter any data.



In review you can check out VQL code of the artifact that you have selected.

Launch the hunt and run it. It will take some time based on system configurations.

State	HuntId	Description	Created	Started	Expires	Scheduled	Creator
п	H.CQDKMD38E2EN2	sample hunt	2024-07-20T05:29:24Z		2024-07-27T05:11:06Z	0	
18 25 38 58 Showing 1 to 1 of 1							

If you click on the notebook you will find out the list of process present in it.

You can edit what ever the process you want to find out.



Click on the artifact on the screen. You will find some new options.

Click on edit cell option. You will find out the VQL code available.

You can edit the VQL code as per your requirements to filter out results. We can also export the

NOT: VQL is case sensitive.

We can also download the process as csv or json file format and add them to your siem tools.

There is one powerful option in velociraptor called virtual file systems.



Click on the data that you want to view and click refresh present on right side. I am proceeding with auto. For every refresh you can find out the directories present are being visible.



From this you can also find out if there is any malicious file running the client system. We need to search for it to find whether it is malicious or false positive.

There will option called collect from client

Click on the option. After that you find out the following information.

We can download the file by clicking on the download icon and perform forensic analysis on the file



If you found any malicious process, you can quarntine the host.

By clicking on the quarntine option present at the beginning.



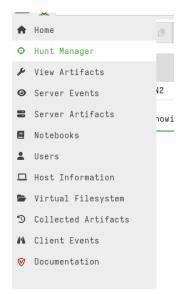
Click on quarntine option, a prompt will be opened as shown below. The networking operations on the client machine will be stopped if we click on yes option.



You can also unquarntine the host later.

You can also perform multiple activities by selecting multiple artifacts.

There are also different options you can explore in velociraptor and also you can create note book where you list down what operations you are performing in velociraptor.



Try to explore more options present in velociraptor for more information.

In short, Velociraptor allows us to perform various operations to gather client information, modify VQL, create new VQL queries, and streamline our activities efficiently.