In Enterprise and Infrastructure Module => Launch the Labs

Step 1: Windows 10 PC and ensure you have already turned off the Virus Protection Settings and ensure the download folder is already excluded in Virus Protection Settings

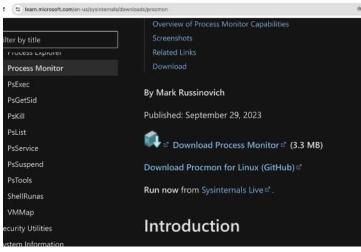
Step 2:

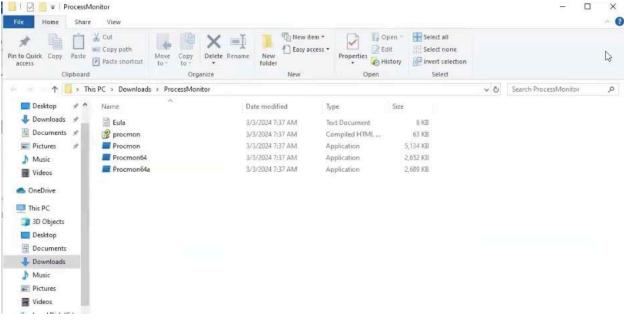
Download the following tools in Windows 10 Machine

Process Monitor:

https://download.sysinternals.com/files/ProcessMonitor.zip

1. Just extract this folder of ZIP file [We are ready to use Process Monitor 64 Bit]





Process Hacker:

https://sourceforge.net/projects/processhacker/files/processhacker2/processhacker-2.39-setup.exe/download

2. Now install the Process Hacker tool in Windows 10 with just NEXT steps

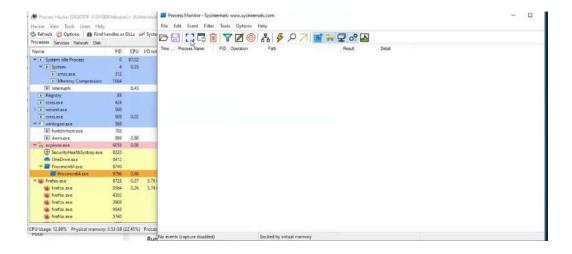


Step 3:

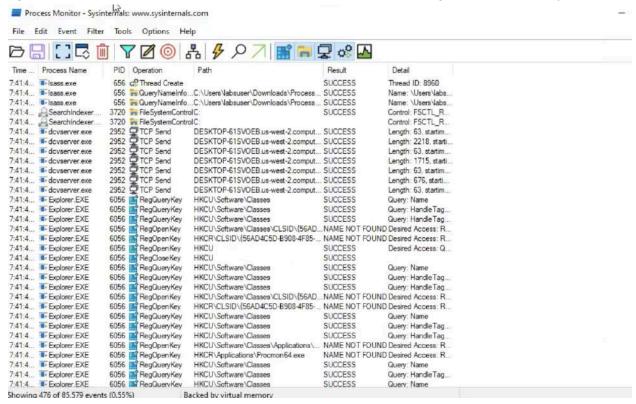
- 3. Generate the Screensaver.exe malware and keep it ready in Windows 10 PC [Do NOT Run now at this step but just keep it ready]
- 4. Go to your Kali Linux and open the Terminal and launch the msfconsole and set the payloads and just run the exploit step in msfconsole [You should refer previous lab document which is provided to reach this step]

```
msf6 exploit(multi/handler) > exploit
[*] Started reverse TCP handler on 172.31.34.220:4444
```

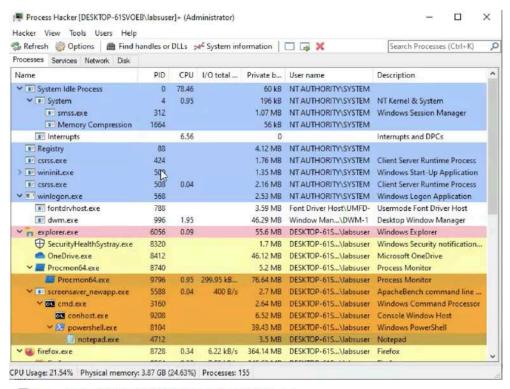
- 5. Now Go to Windows 10 Machine and ensure the following Process Hacker and Process Monitor tools are run or open this tools
- 6. In Process Monitor Click the Capture button to stop the event collection and Delete button to clear the already captured events from screen.

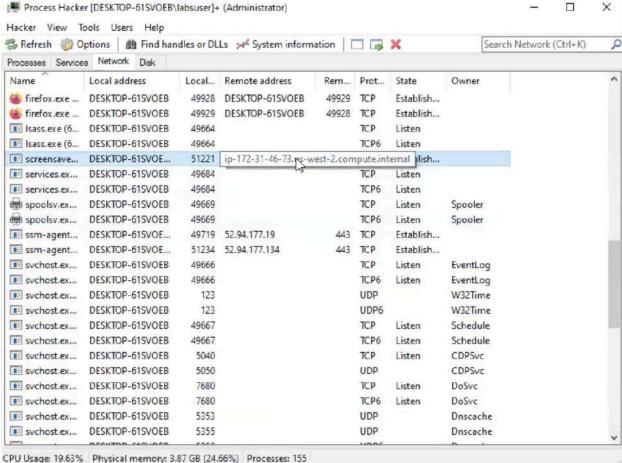


7. Again In Process Monitor Click the Capture button to start collecting the events freshly.

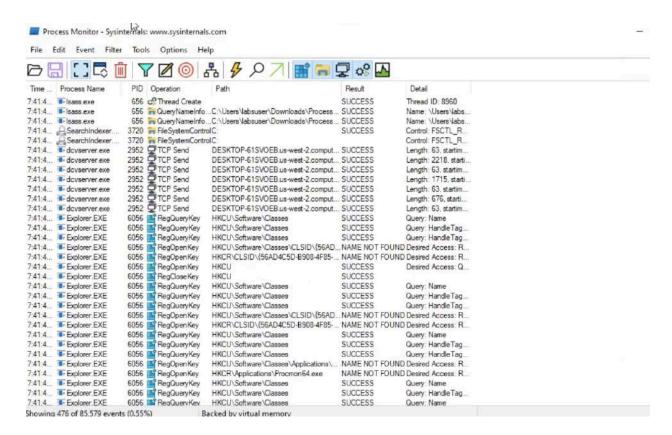


- Now go to Windows10 Machine and run the screensaver.exe malware as Administrator by right click
- Now go to Kali Linux you will find meterpreter session is successful [as usual to get the shell ⇒ Powershell ⇒ Start notepad Process]
- 10. And observe the Process Hacker tool as shown below and you will find the malware process named "screensaver.exe" is running and associated child processes as well triggered through the malware



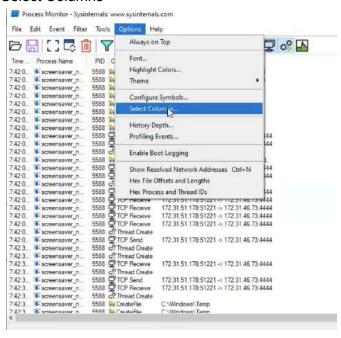


11. Now go to the Process Monitor tool and stop the capture button to stop collecting events

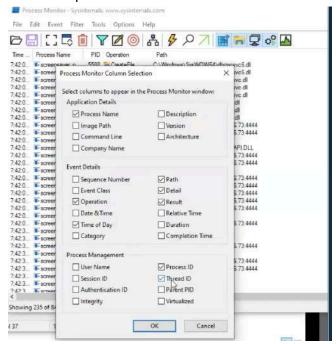


12. In Options Tab uncheck the "Show Resolved Network Address" if it's already there unchecked or not enabled leave this settings do no change

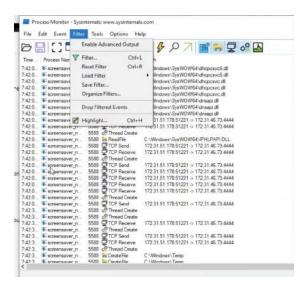
13. Now ensure following settings are turned off in Process Monitor tool Go to "Select Columns"



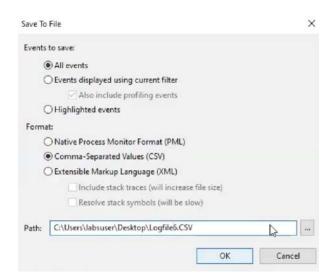
Do not select "Sequence Number" and "select the "Thread ID" as shown below Click Ok



In Filter option uncheck the "Enable Advanced Output" if it's already there unchecked or not enabled leave this settings do no change

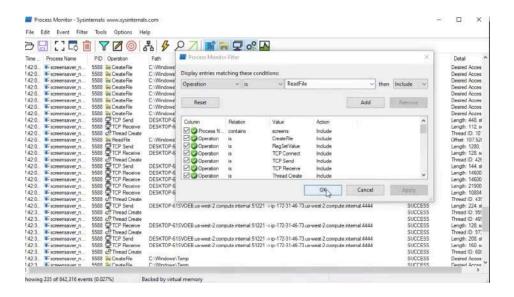


14. Click on Save button in Process Monitor and ensure you have selected "All Events" and "CSV" format and save to desktop in Windows 10



Step 4:

Now you can also investigate the events in Process Monitor specific to malware by applying following filters

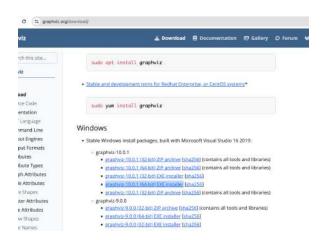


Step 5:

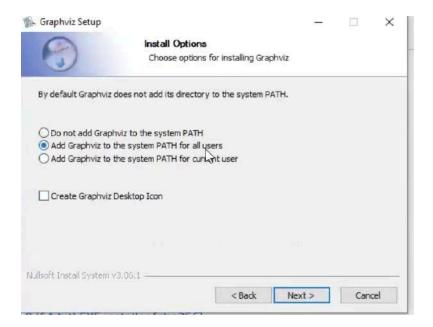
Now it's time to generate a report with Graph analysis of malware behavior based on the process events we collected in CSV format in Process Monitor tool

In order to do that we need to install the tool called ProcDot [but procdoc requires dependency as GraphViz to run the machine hence we will proceed with following steps of installing]

https://gitlab.com/api/v4/projects/4207231/packages/generic/graphviz-releases/10.0.1/windows 10 cmake Release graphviz-install-10.0.1-win64.exe

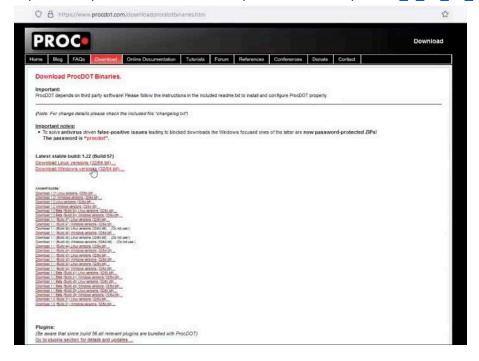


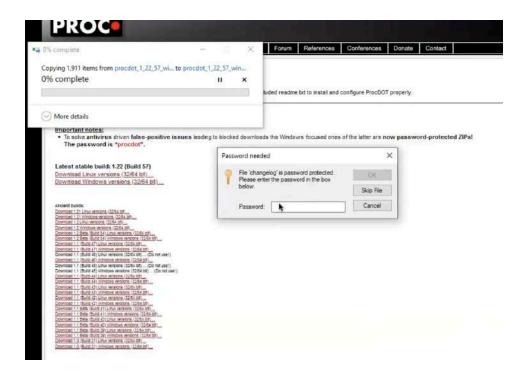
Install the Graphviz by following Next as shown below however ensure the following option is selected during the installation of this "Add GraphViz to the system PATH for all users"



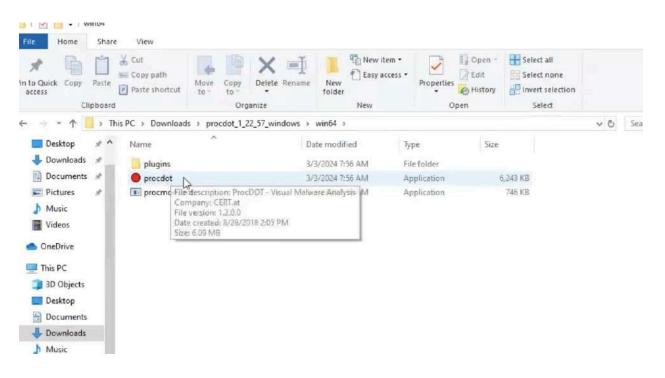
Now Download the Procdot tool using the link below and extract zip . ProcDot have password protection while extracting with 7Zip and The password is "procdot"

https://www.procdot.com/download/procdot/binaries/procdot 1 22 57 windows.zip

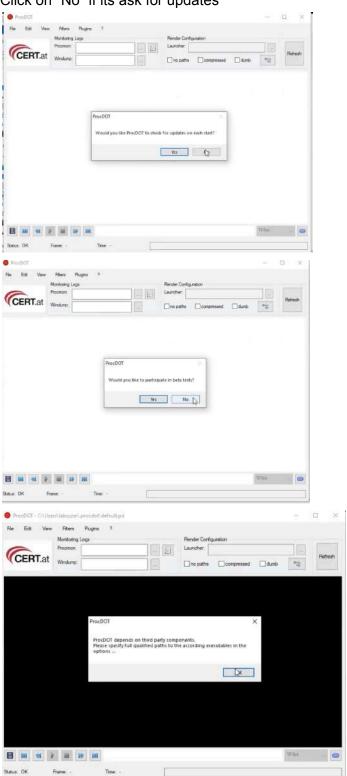




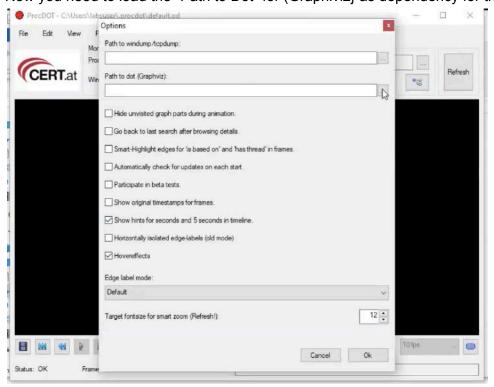
Step 6: Configure and the ProcDot tool

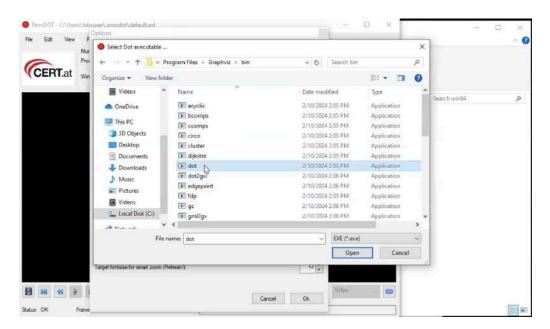


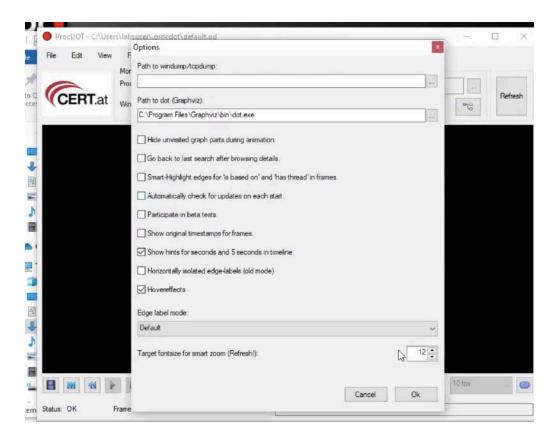
Click on "No" if its ask for updates



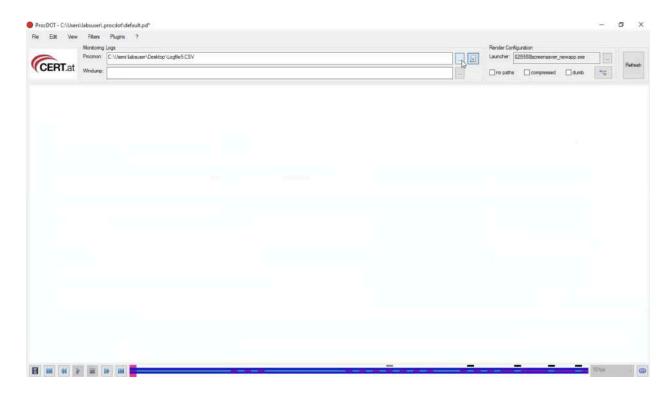
Now you need to load the "Path to Dot" for (Graphiviz) as dependency for this ProcDot tool



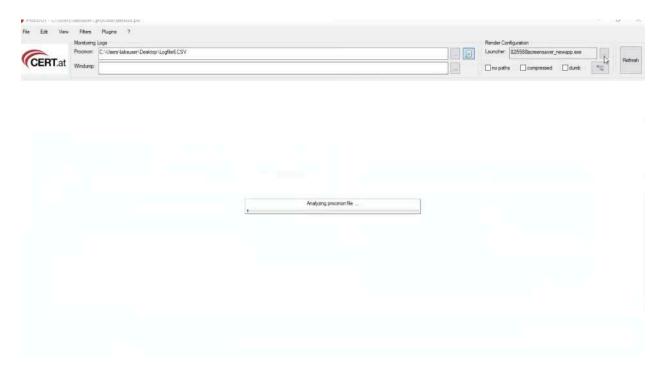




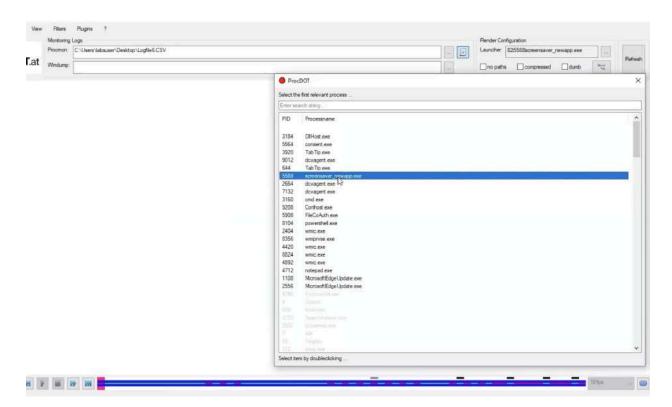
Now load the CSV file generated from Process Monitor tool in to ProDot as shown below



Now click on Launcher button to start Analyzing the Procmon file



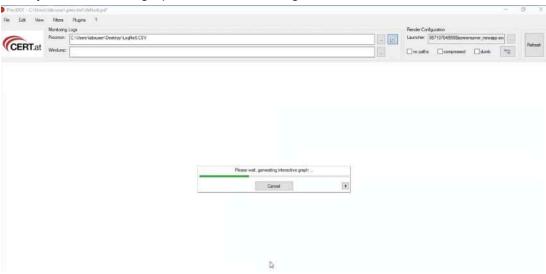
Then you will find the below windows loaded with all the processes however we need to select the processes relevant to our malware "screensaver.exe"



Once selected click on "Refresh" tab



Then you will find the graph will be loaded to generate



Finally graph is generated [Investigate the Processes and child processes created from malware]

