SOC146 - Phishing Mail Detected - Excel 4.0 Macros



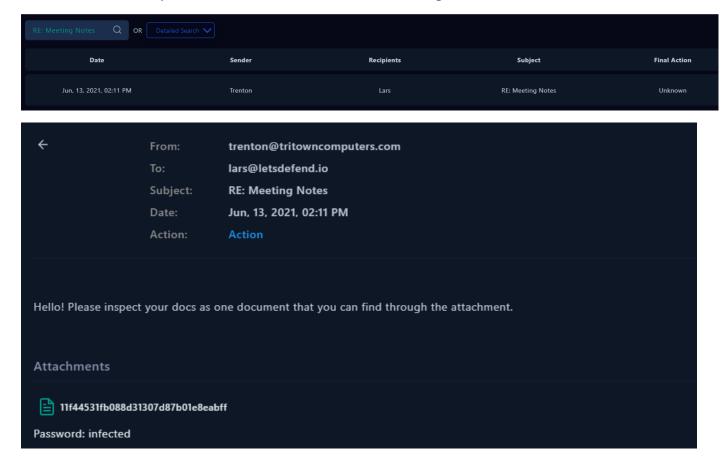
Click on >> and create case and click Continue.



Before we start the playbook, let's initialize our analysis with what we have with us already.

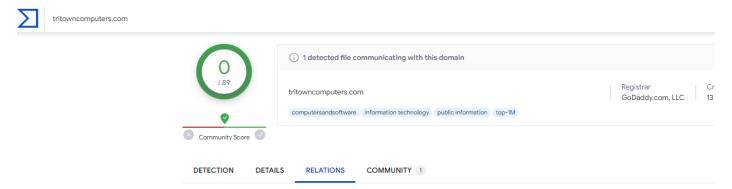
The rule talks about "Phishing Mail Detected - Excel 4.0 Macros" ... so our first hit should be at the Mailbox.

Click on Email Security and search for the mail with "RE: Meeting Notes" as mentioned in the alert.

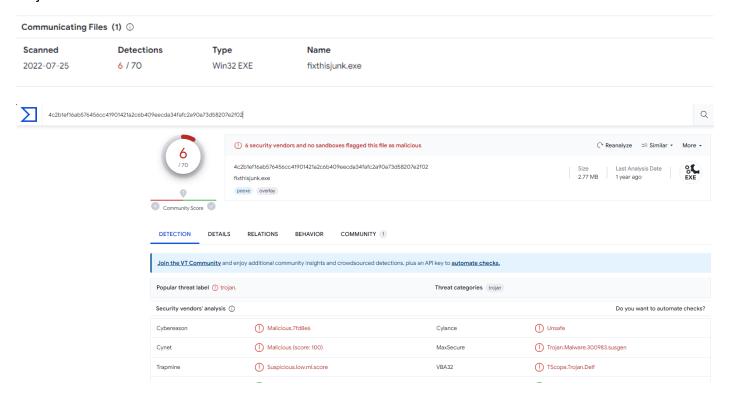


In order to analyse if the email is a Phishing Mail, we need to investigate the attachment. It should be noted that we may be dealing with a potential malware and as such the usage of a Sandbox is highly advised.

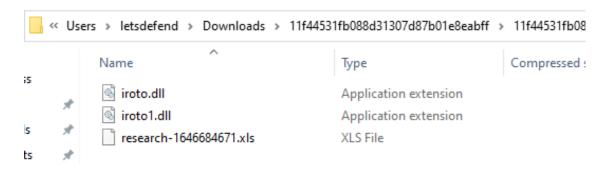
Let's check the reputation of the email we received the mail from.



The domain tritowncomputers.com has a relation to a file which is malicious and has been flagged as a Trojan.



Upon downloading and opening the attachment, the contents are as follows:



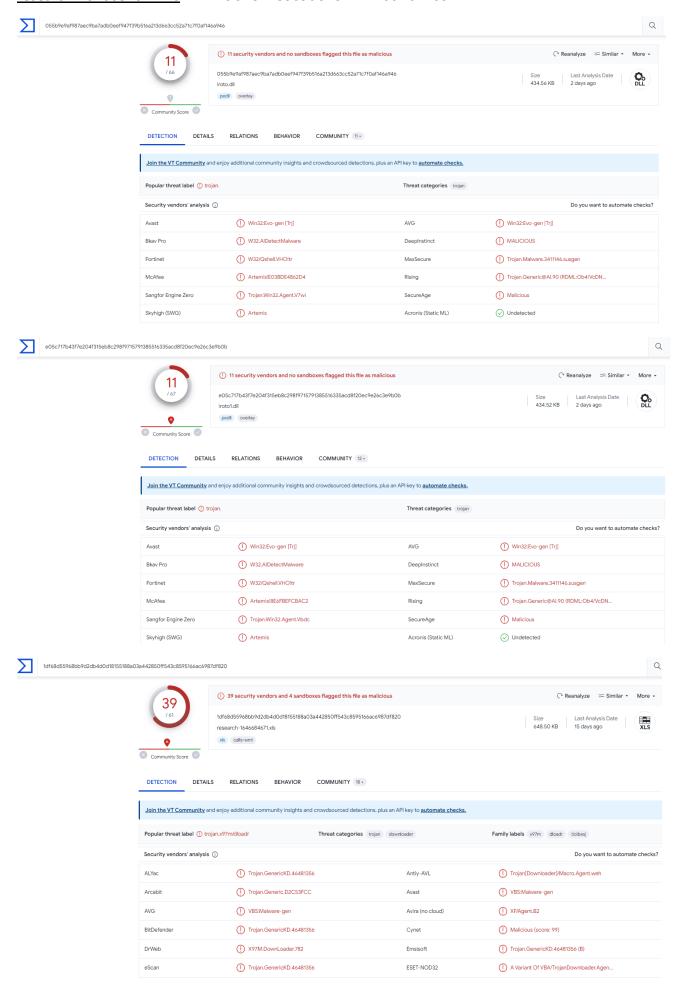
A dll file within an attachment doesn't look good in itself. Moving further.

Now to check the reputation of the files, we find out their MD5 Hashes and search for them on Virustotal.

iroto.dll -> E03BDE4862D4D93AC2CEED85ABF50B18

iroto1.dll -> 8E6FBEFCBAC2A1967941FA692C82C3CA

research-1646684671.xls -> B775CD8BE83696CA37B2FE00BCB40574



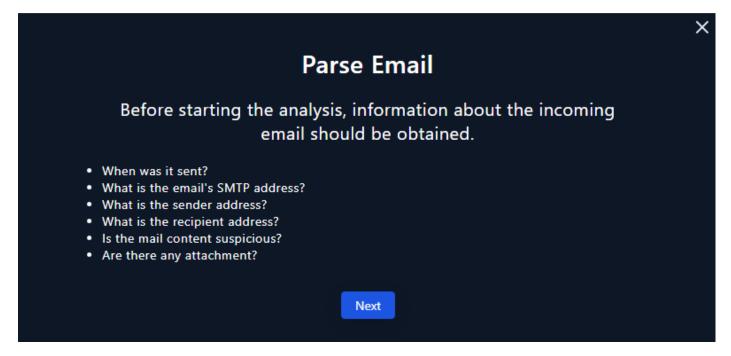
Activity Summary M Mitre Signatures ∧ 3 Detections 4 MALWARE 1TROJAN 4 HIGH 6 LOW 23 INFO Behavior Tags ① calls-wmi detect-debug-environment unknown-behaviour Dynamic Analysis Sandbox Detections ① ⚠ The sandbox Zenbox flags this file as: MALWARE TROJAN EVADER ↑ The sandbox ReaQta-Hive flags this file as: MALWARE ⚠ The sandbox DOCGuard flags this file as: MALWARE ↑ The sandbox BitDam ATP flags this file as: MALWARE MITRE ATT&CK Tactics and Techniques + Execution TA0002 + Persistence TA0003

So, by virtue of all the finding, we can conclude that the attachment is indeed highly malicious.

Let's start the Playbook.

+ Privilege Escalation TA0004
+ Defense Evasion TA0005
+ Discovery TA0007

+ Command and Control TA0011



When was it sent? Jun, 13, 2021, 02:13 PM

What is the email's SMTP address? 24.213.228.54

What is the sender address? trenton@tritowncomputers.com

What is the recipient address? lars@letsdefend.io

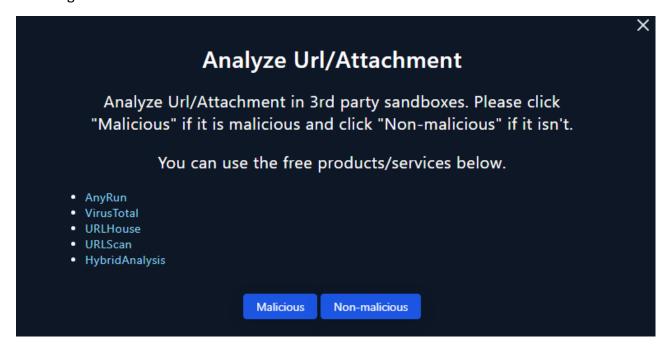
Is the mail content suspicious? Yes

Are there any attachment? Yes

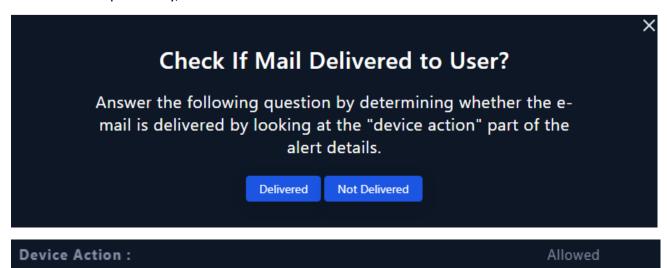
"Yes" has been marked against "Is the mail content suspicious?" because if we notice the personalisation is generic with just a "Hello!" and the rest of the sentence doesn't sound grammatically correct as well.



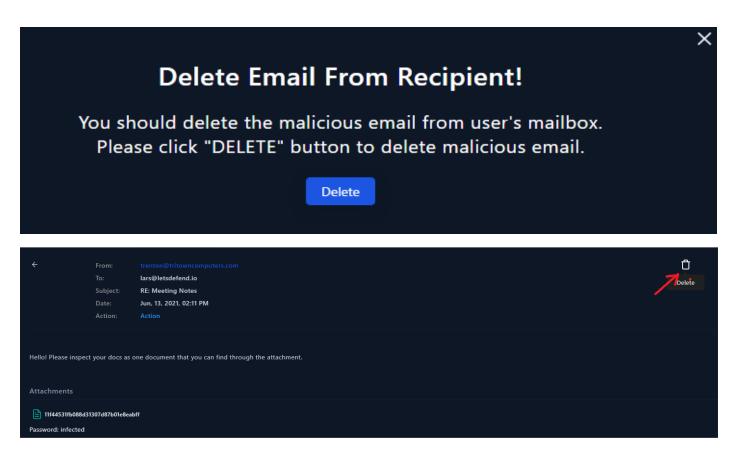
Selecting Yes here.



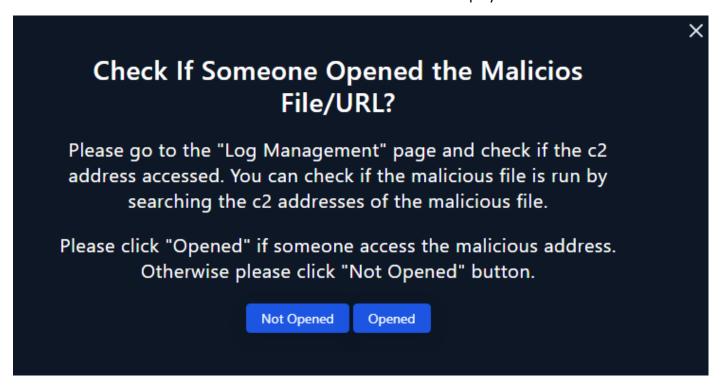
As determined previously, the attachment is Malicious.



We did find the mail in the mailbox, so selecting Delivered here.



Delete the email from the mailbox and click the DELETE button on the playbook.

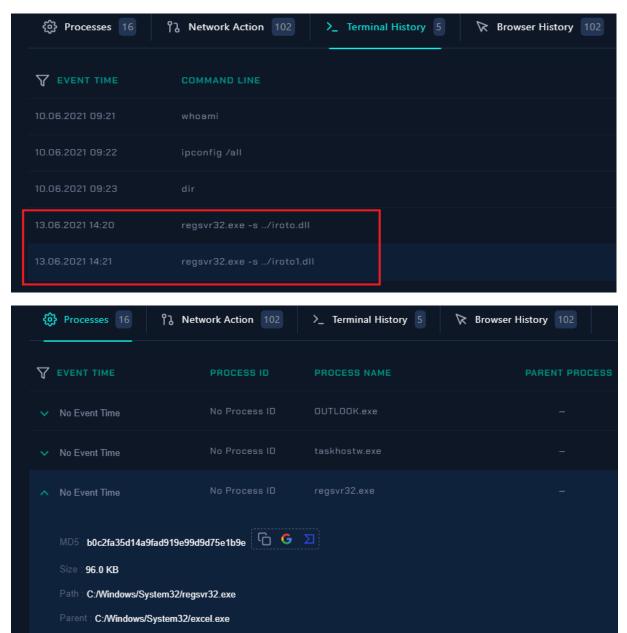


Now to check if Lars did or did not open the file, we need to look into his endpoint.



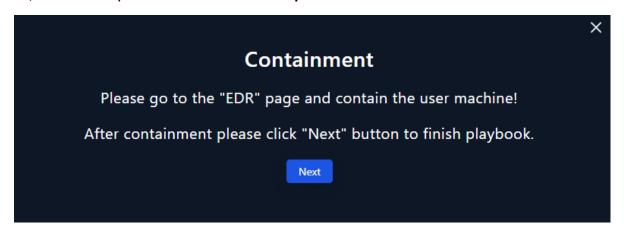
Last Login: Jun, 13, 2021, 02:47 PM for Lars on the machine is approximately similar to Event date & time.

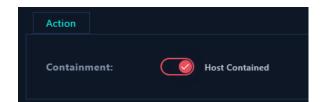
We see that the DLLs sprung into action suggesting the excel has been opened.



So, we can safely select that the file was "Opened".

Command Line: regsvr32.exe -s iroto.dll

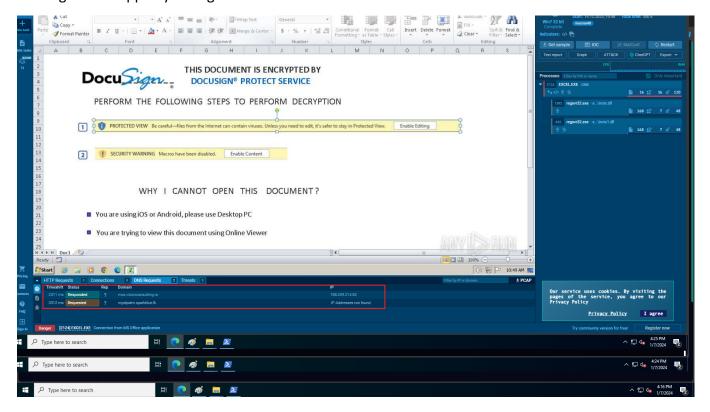




Host "LardPRD" has now been contained.

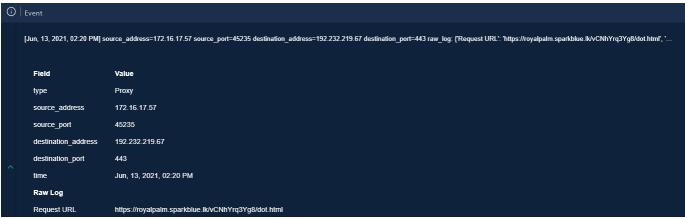


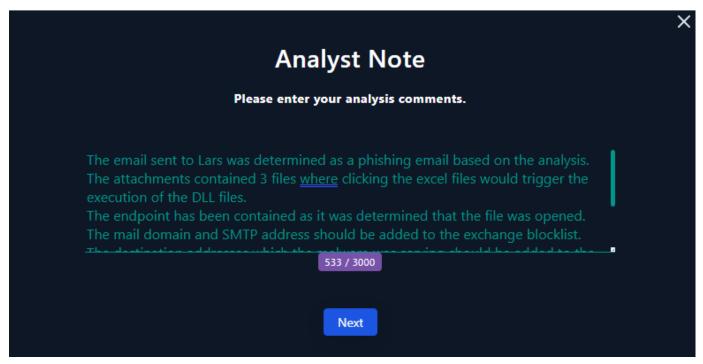
Added artifacts based on our investigation. The Phishing site addresses were determined based on our investigation in app.any.run against the MD5 has of the malicious excel file.



And these were confirmed as logs present.







The email sent to Lars was determined as a phishing email based on the analysis. The attachments contained 3 files where clicking the excel files would trigger the execution of the DLL files.

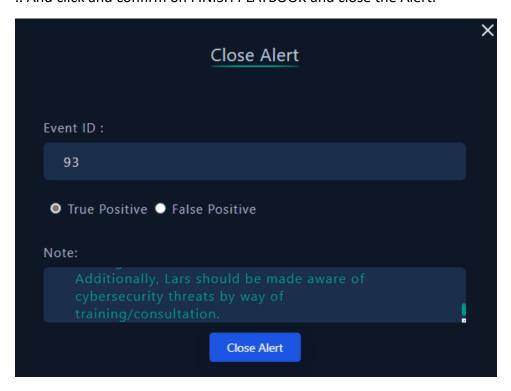
The endpoint has been contained as it was determined that the file was opened.

The mail domain and SMTP address should be added to the exchange blocklist.

The destination addresses which the malware was serving should be added to the firewall.

Additionally, Lars should be made aware of cybersecurity threats by way of training/consultation.

.. And click and confirm on FINISH PLAYBOOK and close the Alert.



This would be a True Positive as it was indeed a "Phishing Email".

Let's check the scores now.



Hopefully this helped.