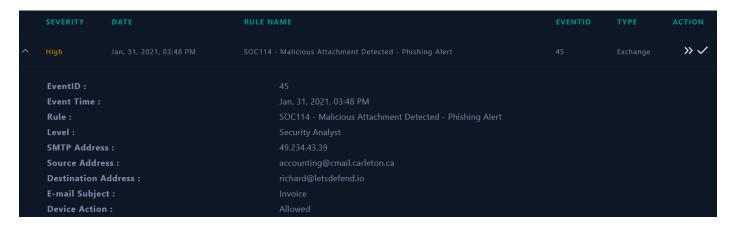
SOC114 - Malicious Attachment Detected - Phishing Alert



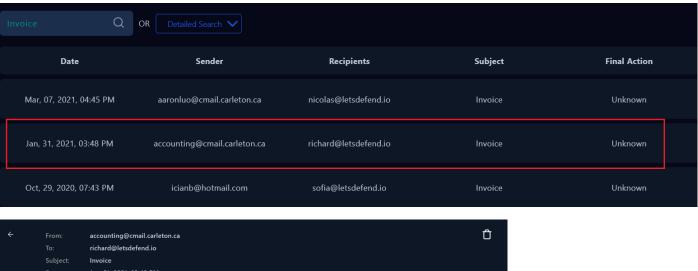
Click on >> and create case and click Continue.



Let's check the information at hand before we start the playbook.

The rule talks about, "Malicious Attachment Detected – Phishing Alert" with type as "Exchange" ... so our first hit would be at the mailbox.

Click on Email Security and search for the mail with "COVID19 Vaccine" as mentioned in the alert.

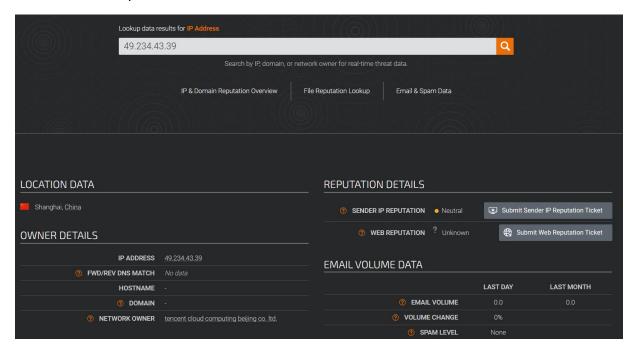




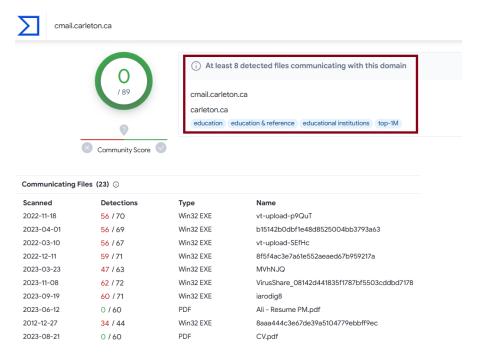
Observing the language of the email gives a sense of generalization, not addressed to someone specific even though the subject is an invoice for a person. The email salutation and body is drafted in the same line ending with "**Regards.**". This lets out a sense of suspicion.

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 SMTP on Talos.



Upon checking the SMTP address is Talos Intelligence, the location of the server shows Shanghai, China belonging to tencent cloud computing. However, the domain Carleton.ca belongs to CA (Canada) which shows that **cmail.carleton.ca** is a spoofed mail domain.



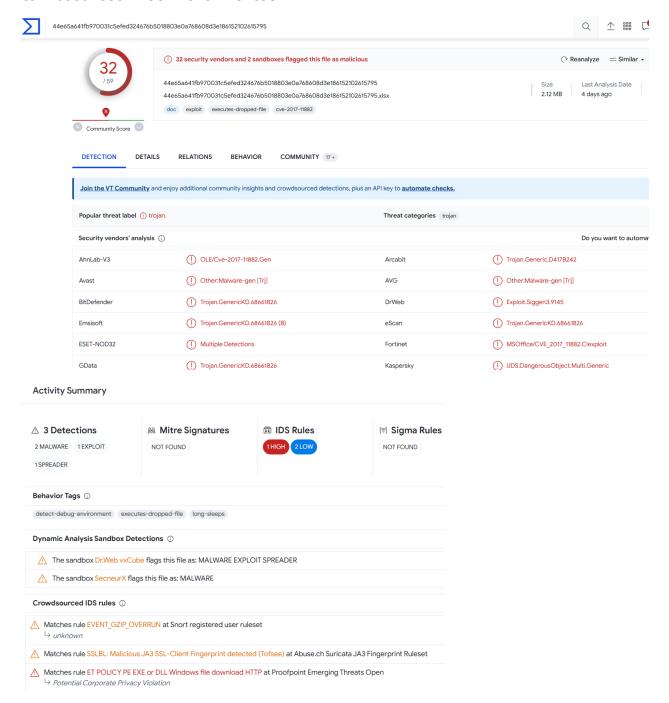
This domain has previously been used to transmit executable files which are highly malicious in nature based on the depicted detection rates above.

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

Name	Date modified	Туре	Size
44e65a641fb970031c5efed324676b5018	1/31/2021 1:55 PM	XLSX File	2,167 KB

To analyse the file, we compare its MD5 Hash signature in Virustotal.

<u>44e65a641fb970031c5efed324676b5018803e0a768608d3e186152102615795.xlsx</u> → C9AD9506BCCCFAA987FF9FC11B91698D

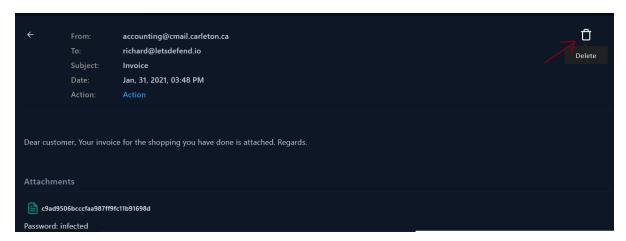


When scanned in app.any.run, the file was found to have DNS linkage with the site: and alucia beach.net

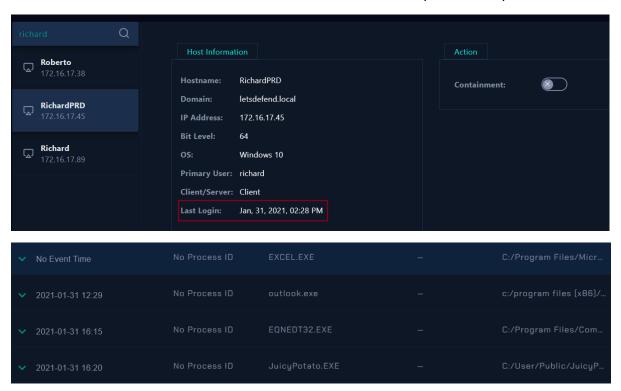




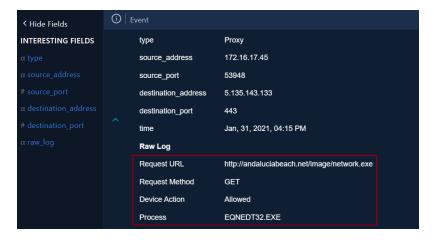
It has been determined that the file is highly malicious in nature and that the email should be deleted from the mailbox. The device action is "Allowed" which means the mail was delivered to Richard's mailbox.



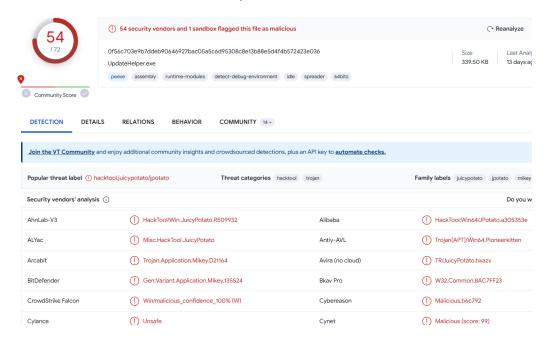
Let's check if there are instances if the file was executed. Let's open the Endpoint.



We can see that excel & outlook was run post which Richard logged off from the machine as denoted by the Last Login timestamp. The malware has a deferred launch capability and started working at 16:15 based on the endpoint process logs and confirmed with network logs (below)



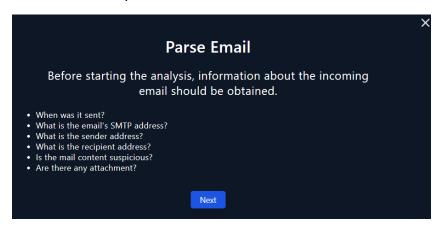
It then downloaded the hacktool JuicyPotato.EXE at 16:20



The machine has been compromised and should be immediately contained.



Let's start the Playbook!



When was it sent? Jan, 31, 2021, 03:48 PM

What is the email's SMTP address? 49.234.43.39

What is the sender address? accounting@cmail.carleton.ca

What is the recipient address? richard@letsdefend.io

Is the mail content suspicious? Yes

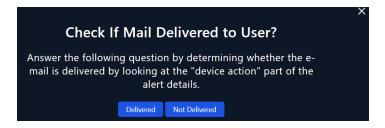
Are there any attachments? Yes



Selecting "YES" here



Selecting "Malicious" here based on our observation.



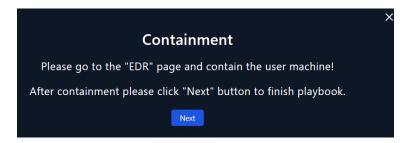
Mail was "Delivered" as device action was Allowed.



Deleted already. Select "Delete"

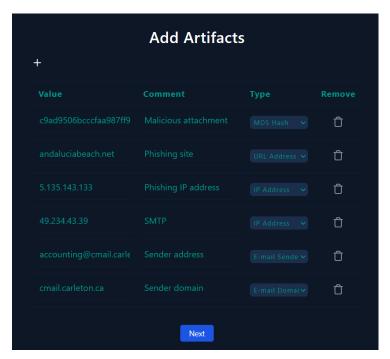


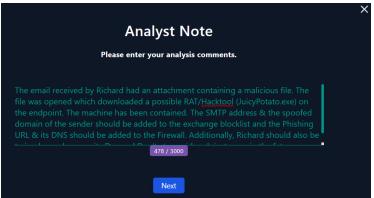
It was clear from the logs that the file was opened. Selecting "Opened" here.



Machine has already been contained. Select Next.

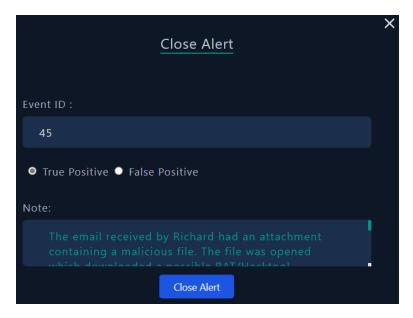
Adding the obtained artificats





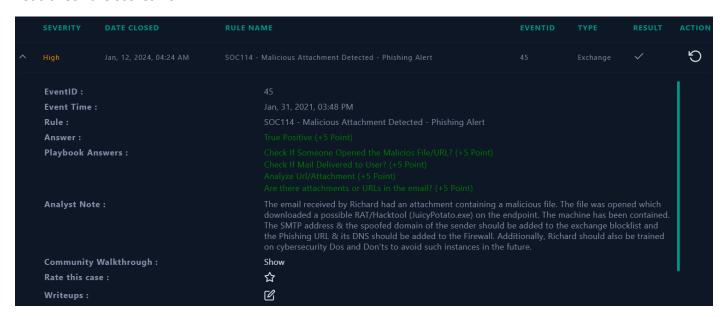
The email received by Richard had an attachment containing a malicious file. The file was opened which downloaded a possible RAT/Hacktool (JuicyPotato.exe) on the endpoint. The machine has been contained. The SMTP address & the spoofed domain of the sender should be added to the exchange blocklist and the Phishing URL & its DNS should be added to the Firewall. Additionally, Richard should also be trained on cybersecurity Dos and Don'ts to avoid such instances in the future.

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



This would be a True Positive as the email indeed contained a "Malicious Attachment".

Let's check the scores now.



Hope this helped.