

USE CHRONICLE TO INVESTIGATE A SUSPICIOUS DOMAIN USED IN A PHISHING EMAIL

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1. High-Level Project Description:

*In this activity, we'll explore the several capabilities of the Google's native Chronicle SIEM tool to investigate a suspicious domain used in a phishing email.

2. Project Setup and Required Tools:

*For this assignment, Google provided us a VM in which we had access to the tool. If doing this assignment in our own account, we would need to set up a Google Cloud Account first..

3. Step by Step Project Walkthrough

*In this lab, we will: Access threat intelligence reports on the domain, identify the assets that accessed the domain, evaluate the HTTP events associated with the domain, identify which assets submitted login information to the domain, and identify additional domains.

*We will start by confirming whether the suspicious domain has been determined dangerous. For this purpose, Chronicle includes the information from VirusTotal so we can easily check this in the same interface. For instance:

The screenshot displays the VirusTotal interface for the domain 063501.com. At the top, it indicates that 8 security vendors have flagged the domain as malicious. Below this, a summary section shows the registrar as Alibaba Cloud Computing (Beijing) Co., Ltd., with a creation date of 4 years ago and a last update of 9 months ago. The interface is divided into two main sections: 'SECURITY VENDORS SCANNING RESULTS' and 'WHOIS LOOKUP'. The scanning results section shows that Sophos, ADMINUS Labs, and Avira (no cloud) have all flagged the domain as malicious. The WHOIS lookup section provides detailed information about the domain, including its creation date (2017-05-13T03:10:35Z), domain name (063501.COM), name servers (DNS1.HICHINA.COM), and registrar (Alibaba Cloud Computing (Beijing) Co., Ltd.).

Security Vendor	Result
Sophos	malicious
ADMINUS Labs	malicious
Avira (no cloud)	malicious

Field	Value
Creation Date	2017-05-13T03:10:35Z
DNSSEC	unsigned
Domain Name	063501.COM
Domain Name	063501.com
Domain Status	ok https://icann.org/eppfok
Name Server	DNS1.HICHINA.COM
Name Server	DNS1.HICHINA.COM
Registrant City	3432650ec337c945
Registrant Country	CN
Registrant Email	6aacf85c31f44448a8
Registrant State/Province	2436987d16246d5
Registrar Abuse Contact Email	DomainAbuse@service.aliyun.com
Registrar Abuse Contact Phone	+86.95187
Registrar IANA ID	420
Registrar Registration Expiration Date	2022-05-13T03:10:35Z
Registrar URL	http://whois.aliyun.com
Registrar URL	http://www.net.cn
Registrar WHOIS Server	gns-whois.hichina.com
Registrar	Alibaba Cloud Computing (Beijing) Co., Ltd.

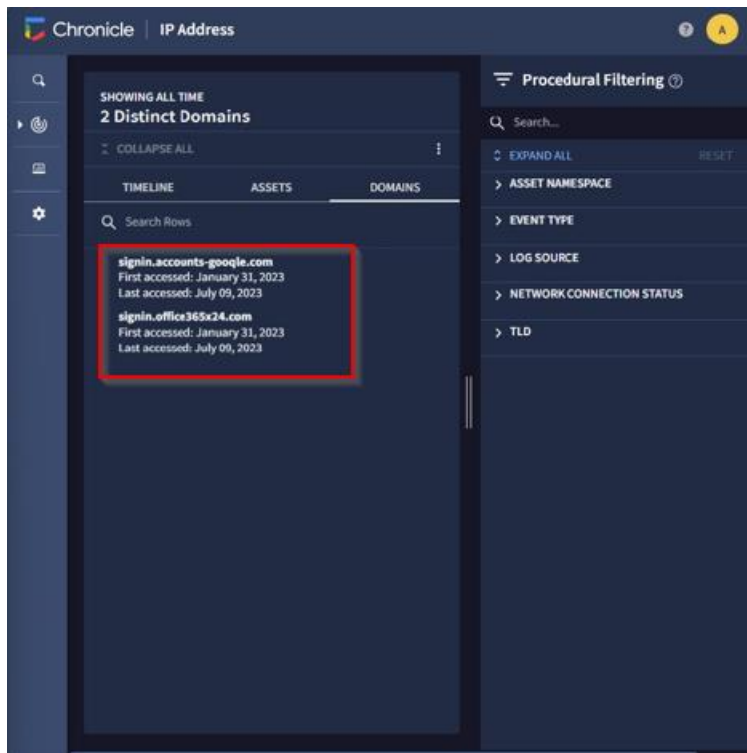
*Next, we will proceed to identify the assets that accessed the domain and evaluate the HTTP events associated with the domain. If we go to the Chronicle dashboard and look to the panel on the left, we can see several information including the asset view.



*Once there, we will search and click on the requests related to the suspicious address (the one we were exploring in the VM provided by Google was `signin.office365x24.com`) to evaluate HTTP events associated to this account. We will pay special attention to the POST requests, since these can help us finding out which assets submitted login information to the suspicious domain.



*Lastly, we will find other domains associated to this account by going to the Resolved IP address section. With that information, we were able to find that the domain `signin.accounts-google.com` is related to the suspicious account `signin.office365x24.com`, so this could be used for further investigation.



*Note that only the last screenshot was actually taken while doing this lab, all other images are shown for illustration purposes only.

4. Summary and/or Recommendations:

*In this activity, we determined that the suspicious domain has been involved in phishing campaigns. We also determined that multiple assets might have been impacted by the phishing campaign as logs showed that login information was submitted to the suspicious domain via POST requests. Finally, we identified two additional domains related to the suspicious domain by examining the resolved IP address.