## **SOC166 - Javascript Code Detected in Requested URL**

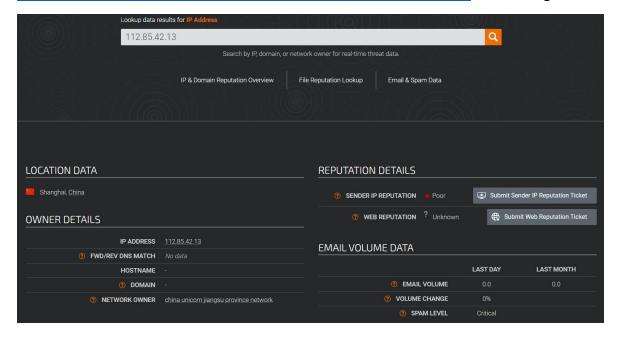


Click on >> and create case and click Continue.

Incident Details					
Incident Name:	EventID: 116 - [SOC166 - Javascript Code Detected in Requested URL]				
Description:	EventID: 116				
Incident Type:	Web Attack				
Created Date:	Jan, 14, 2024, 12:27 PM				
	Start Playbook!				

Let's look at the info we have with us before we start the playbook. Since the attack type is <u>WEB ATTACK</u> with <u>JavaScript code detected in URL</u>, our priorities would be to look at the endpoint and the log management. One look at the requested URL, gives an indication of a possible XSS attack with the JavaScript code embedded in the URL.

https://172.16.17.17/search/?q=<\$script>javascript:\$alert(1)<\$/script> ... Let's dig further



Upon checking the Source address on Talos, the location is Shanghai, China with IP Reputation as POOR and Spam Level as CRITICAL.

The endpoint **WebServer1002** was checked and no related information could be found there. The last time the admin logged into the machine was over 20 days prior to the event date.

Checking the logs, we see there are quite a few listings with source IP as 112.85.42.13



After checking all the logs, it can be understood that the attacker was trying to perform reconnaissance on the server with the first three responses and the actual attack started at Feb, 26, 2022, 06:46 PM

Feb, 26, 2022, 06:46 PM		112.85.42.13	47283	172.16.17.17	443	€
Feb, 26, 2022, 06:46 PM	Firewall	112.85.42.13	49183	172.16.17.17	443	€
Feb, 26, 2022, 06:53 PM	Firewall	112.85.42.13	49263	172.16.17.17	443	€
Feb, 26, 2022, 06:50 PM	Firewall	112.85.42.13	49243	172.16.17.17	443	€
Feb, 26, 2022, 06:56 PM	Firewall	112.85.42.13	49283	172.16.17.17	443	€

Post URL decoding, the prompts are as follows:

https://172.16.17.17/search/?q=prompt(8)

https://172.16.17.17/search/?q=<\$img src =q onerror=prompt(8)\$>

https://172.16.17.17/search/?q=<\$svg><\$script ?>\$alert(1)

https://172.16.17.17/search/?q=<\$script>\$for((i)in(self))eval(i)(1)<\$/script>

https://172.16.17.17/search/?q=<\$script>javascript:\$alert(1)

For all the prompts, the HTTP Response Size was 0 & HTTP Response Status: 302, which meant that server was able to actively avoid the injection of the code and redirect the attacker elsewhere. Hence, the attack was not successful.

## **Understand Why the Alert Was Triggered**

In order to perform a better analysis and to determine whether the triggered alert is false positive, it is first necessary to understand why the rule was triggered. Instead of starting the analysis directly, first understand why this rule was triggered.

- Examine the rule name. Rule names are usually created specifically for the attack to be detected. By examining the rule name, you can understand which attack you are facing.
- Detect between which two devices the traffic is occurring. It's a good starting point to
  understand the situation by learning about the direction of traffic, what protocol is used
  between devices, etc.

Next

## **Collect Data**

Gather some information that can be gathered quickly to get a better understanding of the traffic. These can be summarized as follows.

- Ownership of the IP addresses and devices.
- If the traffic is coming from outside (Internet);
- Ownership of IP address (Static or Pool Address? Who owns it? Is it web hosting?)
- Reputation of IP Address (Search in VirusTotal, AbuseIPDB, Cisco Talos)
- If the traffic is coming from company network;
- Hostname of the device
- Who owns the device (username)
- Last user logon time

Next

Ownership of the IP addresses and devices.: china unicom jiangsu province network

If the traffic is coming from outside (Internet); Yes

Ownership of IP address (Static or Pool Address? Who owns it? Is it web hosting?): 112.85.42.13(112.84.0.0/15). Pool address

Reputation of IP Address (Search in VirusTotal, AbuseIPDB, Cisco Talos): Poor

If the traffic is coming from company network; No

Hostname of the device: WebServer1002

Who owns the device (username): webadmin15

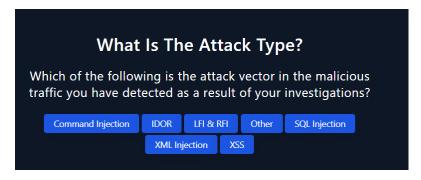
Last user logon time: Feb, 02, 2022, 03:40 PM



Already examined.



Selecting Malicious as the prompts in the log management direct towards an intended XSS attack.

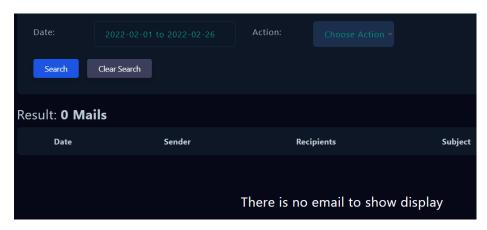


Selecting XSS here.



Checking in Email Security and filtering by date to check if any emails arrived indicating a planned test.

After filtering with date range Feb, 01, 2022 – Feb, 26, 2022, there are no emails listed.



So, this was not a planned test. Selecting **NOT PLANNED** here.



Selecting Internet → Company Network here.



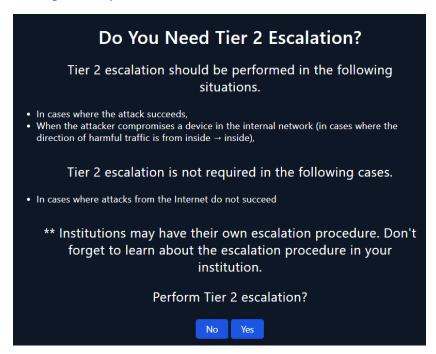
Based on the HTTP Response Code, we have already determined that the attack was not successful.



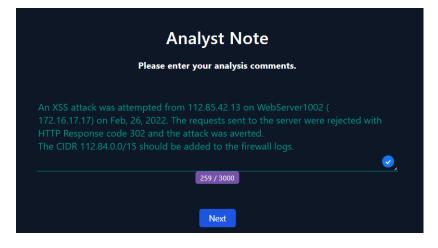
Selecting NO here.



Adding the only artifact of the attack.



Selecting NO here since the attack was not successful, there is no need to escalate the issue.



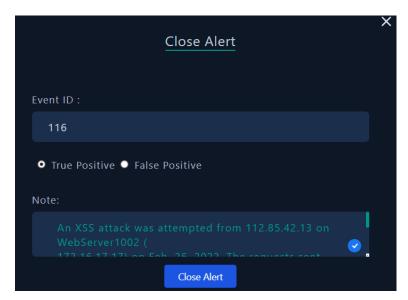
Add your finding as comments,

An XSS attack was attempted from 112.85.42.13 on WebServer1002 (

172.16.17.17) on Feb, 26, 2022. The requests sent to the server were rejected with HTTP Response code 302 and the attack was averted.

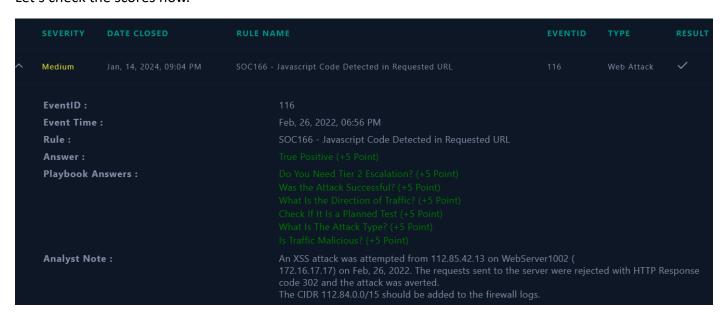
The CIDR 112.84.0.0/15 should be added to the firewall logs.

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



Selecting as True Positive since there indeed was JavaScript code in the URL

Let's check the scores now.



Hope this helped.