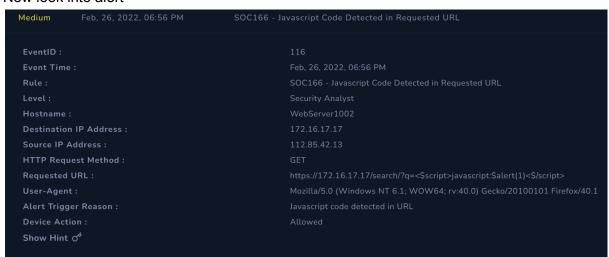
What is Cross Site Script (XSS)?

- Cross site Scripting is a type of computer security vulnerability that enables an attacker to inject malicious code into a web page viewed by other users.
- This can allow the attacker to steal sensitive information such as
 - Login credentials (e.g username and password)
 - Personal information
 - Financial information
 - Session cookies
 - Website content

How to Detect XSS?

- Look for keywords such as "alert" and "script".
- Also check presents of characters like greater than (>) or lesser than (<) are present.

Now look into alert



- The Source IP address (112.85.42.13) sending the request with javascript code to the Web Server 1002 (172.16.17.17)
- Requested URL: https://172.16.17.17/search/?q=<\$script>javascript:\$alert(1)<\$/script>

We can start our investigation with Source IP address:



We can clearly see that IP address (112.85.42.13) was Malicious

Now looking in to Log Management for what are the activity done by 112.85.42.13 so far,

DATE ↑			RAW
Feb, 26, 2022, 06:34 PM			⊕
Feb, 26, 2022, 06:35 PM			€
Feb, 26, 2022, 06:45 PM			€
Feb, 26, 2022, 06:46 PM			⊕
Feb, 26, 2022, 06:46 PM			⊕
Feb, 26, 2022, 06:50 PM			€
Feb, 26, 2022, 06:53 PM			⊕
Feb, 26, 2022, 06:56 PM			⊕
•			

• Attacker made several XSS attacks, but all of the attempts were redirected by the server with HTTP status 302.

Request URL: https://172.16.17.17/search/?q= <\$img%20src%20=q%20onerror=prompt(8)\$>

User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:40.0)

Gecko/20100101 Firefox/40.1

Request Method: GET

Device Action: Permitted

HTTP Response Size:: 0

HTTP Response Status: 302

- Here we can compare the 200 HTTP Response Status and 302 HTTP Response status which server responds to an attacker while making a non malicious and malicious request.
- From this response we can say the attack was unsuccessful.

Request URL: https://172.16.17.17/

User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:40.0)

Gecko/20100101 Firefox/40.1

Request Method: GET

Device Action: Permitted

HTTP Response Size:: 1024

HTTP Response Status: 200

Playbook Answers:



- No need to Tier 2 Escalation
- The attack was not successful
- The direction of Traffic : internet to company network
- Not a Planned test (attack)
- Cross site scripting XSS attack.
- Yes, the traffic has Malicious code.