

SOC170 – Passwd Found in Requested URL – Possible LFI Attack

Hello, Today I will write about investigation of “SOC170 - Passwd Found in Requested URL – Possible LFI Attack”

This is the alert that appears in our investigation channel.

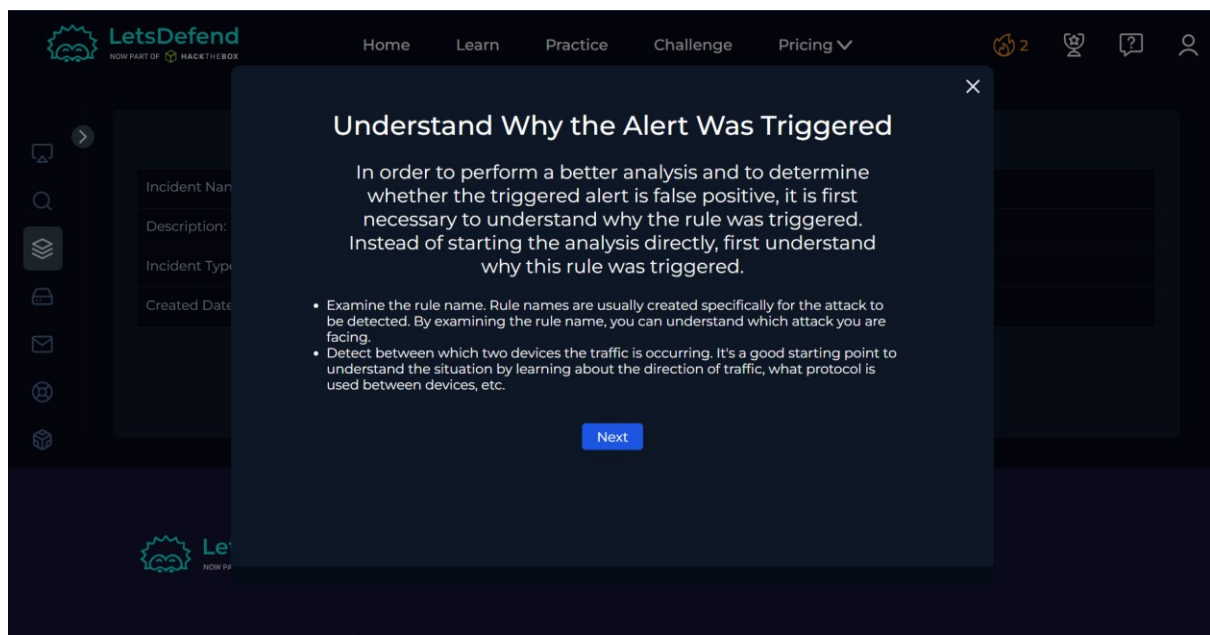
High	Mar, 01, 2022, 10:10 AM	SOC170 - Passwd Found in Requested URL - Possible LFI Attack	120	Web Attack	>> ✓
EventID :	120				
Event Time :	Mar, 01, 2022, 10:10 AM				
Rule :	SOC170 - Passwd Found in Requested URL - Possible LFI Attack				
Level :	Security Analyst				
Hostname :	WebServer1006				
Destination IP Address :	172.16.17.13				
Source IP Address :	106.55.45.162				
HTTP Request Method :	GET				
Requested URL :	https://172.16.17.13/?file=../../../../etc/passwd				
User-Agent :	Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; .NET CLR 1.1.4322)				
Alert Trigger Reason :	URL Contains passwd				
Device Action :	Allowed				

Let's start with the playbook

Incident Details	
Incident Name:	EventID: 120 - [SOC170 - Passwd Found in Requested URL - Possible LFI Attack]
Description:	EventID: 120
Incident Type:	Web Attack
Created Date:	Jan, 31, 2025, 10:23 PM
Start Playbook!	

Click on >> Start Playbook button

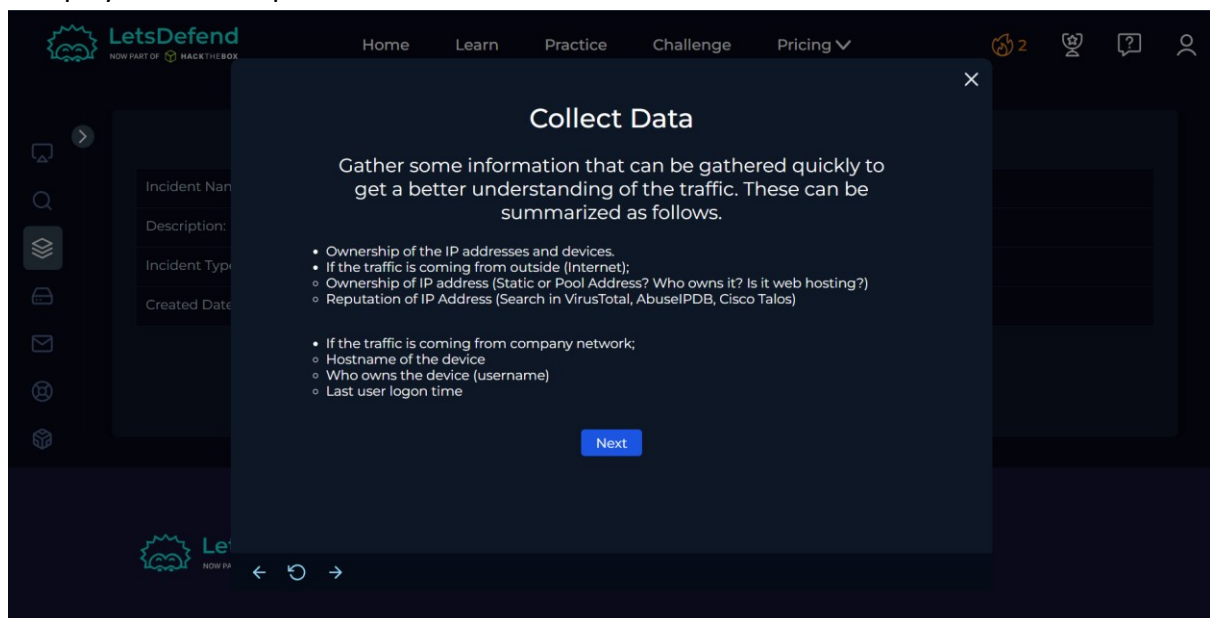
The first step of the playbook is asking us to understand why the alert was triggered



To understand the alert, we are supposed to examine the rule name.

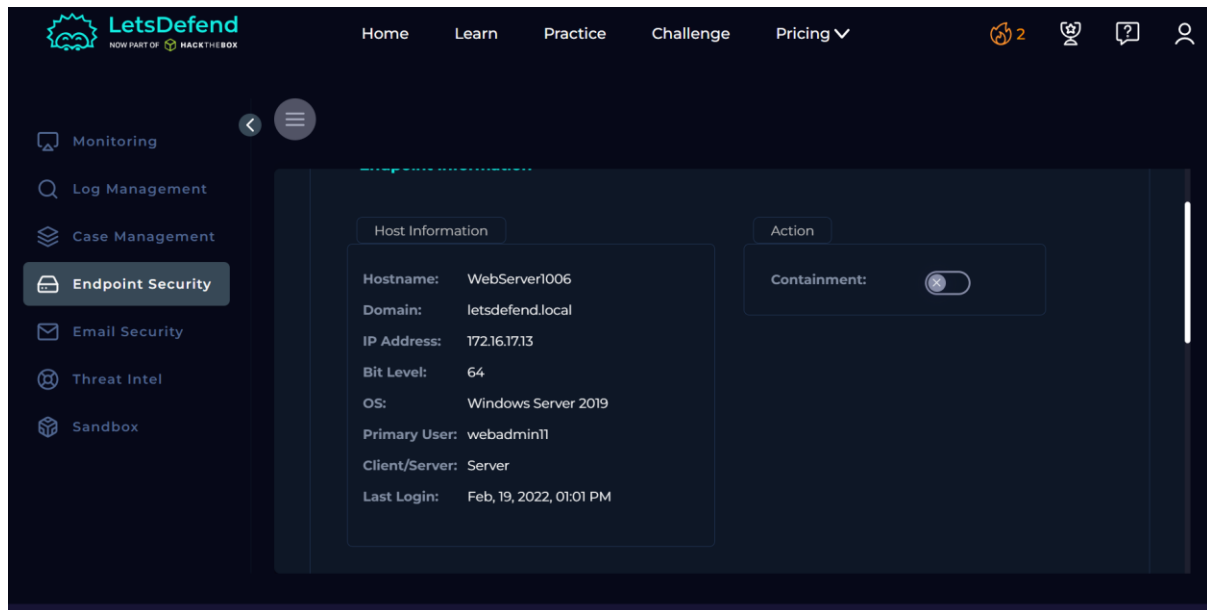
The next step then asks us to determine the traffic path on which it is occurring.

The playbook's next phase instructs us to Collect data.



Let's find out the ownership of the IP addresses and devices.

After checking the Endpoint Security of the address 172.16.17.13 it displays that it belongs to webserver1006



If the traffic is coming from outside (Internet);

Ownership of IP address (Static or Pool Address? Who owns it? Is it web hosting?)

We can clearly see that that it is a Static Address. We are able to determine that the device is being web hosted on the Tencent Cloud Computing Beijing Co. LTD using Cisco Talos and AbuseIPDB



The Reputation of the IP Address is **Suspicious**

The screenshot shows a web application security tool interface. At the top, the IP address 106.55.45.162 is entered in the search bar. The main dashboard displays a green circular progress indicator with '0 / 95' and a 'Community Score' of '-16'. A message states: 'No security vendor flagged this IP address as malicious'. Below this, the IP address is shown as '106.55.45.162 (106.52.0.0/14)' and the AS is 'AS 45090 (Shenzhen Tencent Computer Systems Company Limited)'. The 'Last Analysis Date' is '1 day ago'. The interface has tabs for 'DETECTION', 'DETAILS', 'RELATIONS', and 'COMMUNITY' (55). A banner encourages joining the community. A table titled 'Security vendors' analysis' shows results for various vendors, all marked as 'Clean'.

Security vendors' analysis		Do you want to automate checks?	
Abusix	✓ Clean	Acronis	✓ Clean
ADMINUSLabs	✓ Clean	AlLabs (MONITORAPP)	✓ Clean
AlienVault	✓ Clean	Antiy-AVL	✓ Clean
benkow.cc	✓ Clean	BitDefender	✓ Clean

Then we examine the HTTP Traffic by simply looking at the IP address reputation and the log analysis performed in log management.

The screenshot shows a web application security tool interface with a modal window titled 'Examine HTTP Traffic'. The modal contains the following text:

Check the traffic content for any suspicious conditions such as web attack payloads (SQL Injection, XSS, Command Injection, IDOR, RFI/LFI).

Examine all the fields in the HTTP Request. Since the attackers do not only attack through the URL, all the data from the source must be examined to understand whether there is really a cyber attack.

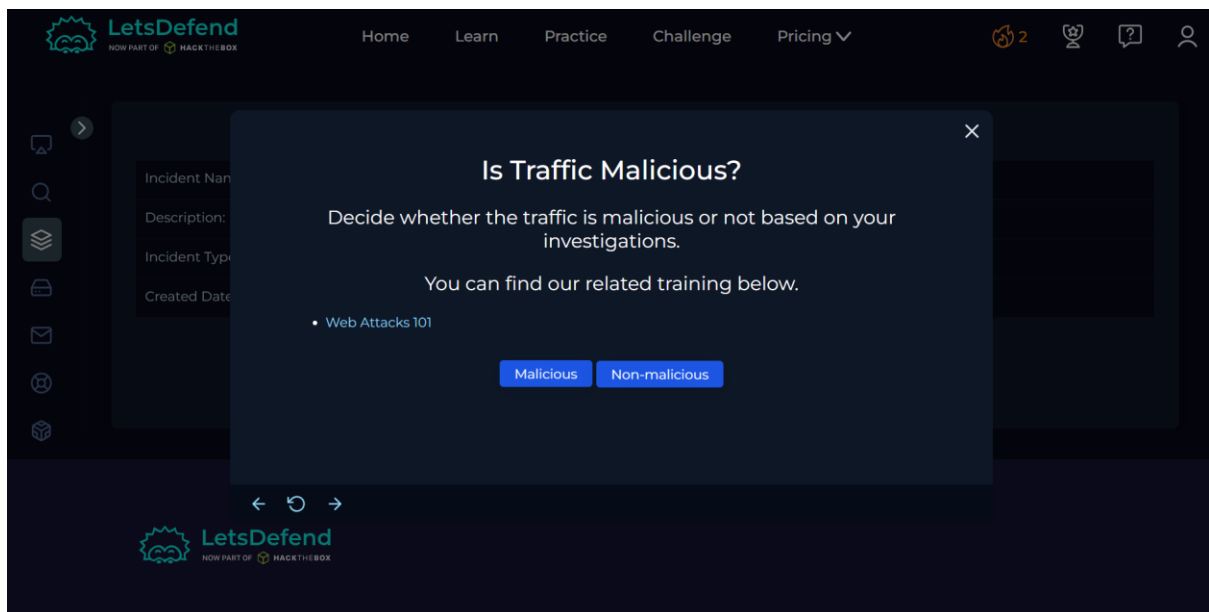
You can review the Web Attacks 101 tutorial for information about attacks on web applications and how to detect these attacks.

• Web Attacks 101

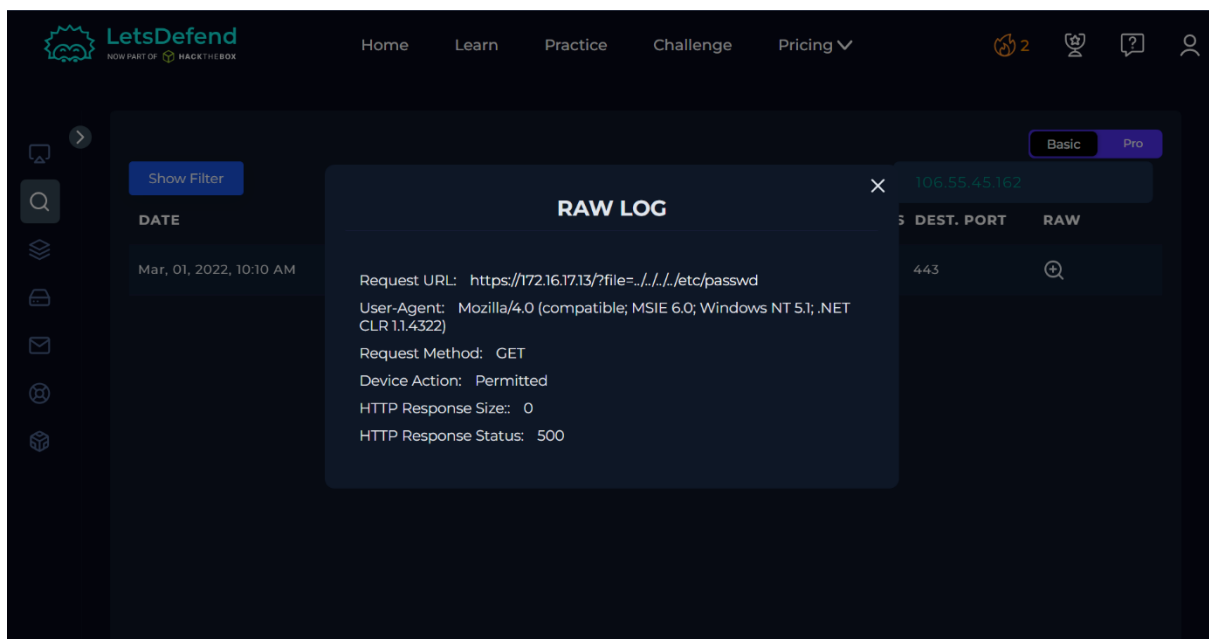
Next

The background interface shows a sidebar with icons for various functions and a main area with a form for incident management.

Click on >> Next



Let's find this out by searching the IP address 106.55.45.162 in log management section. In this log entry, we can clearly see that the attacker is trying to load a system file from the server using the URL parameter file.

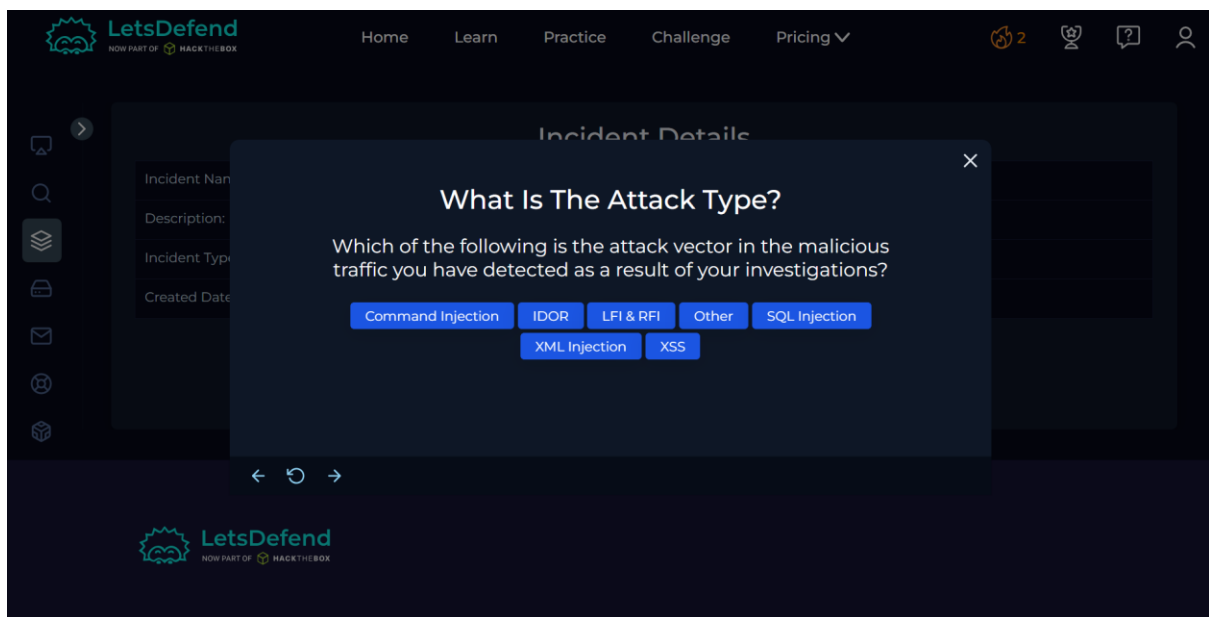


The request looks like this:

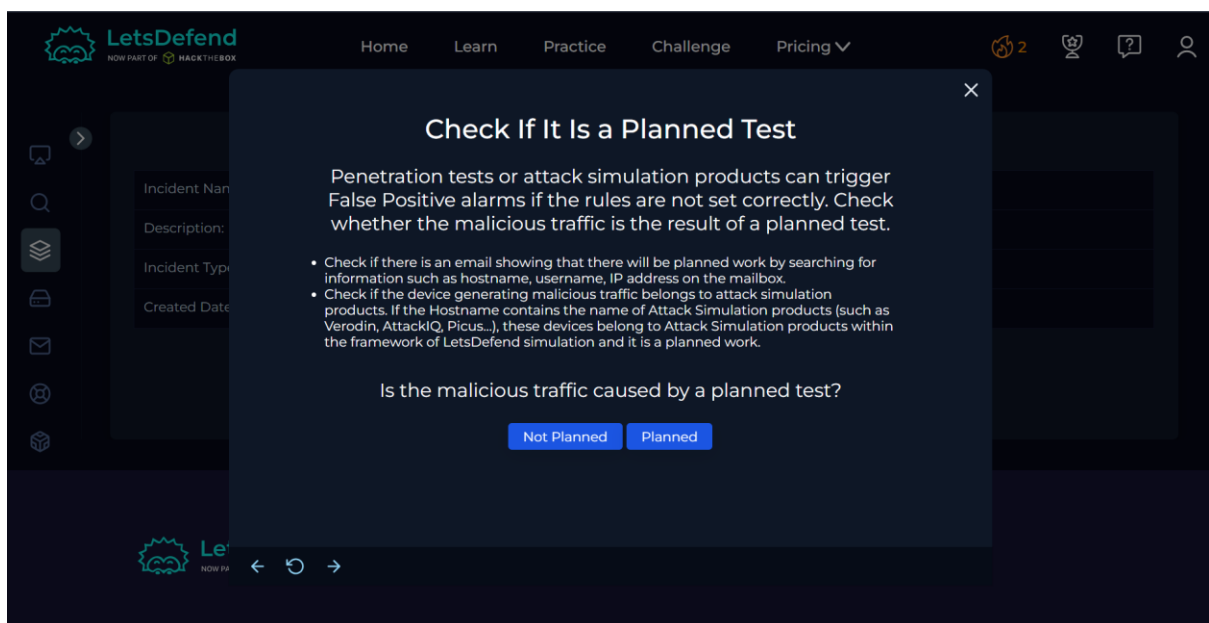


it shows a classic Local File Inclusion (LFI) attack.

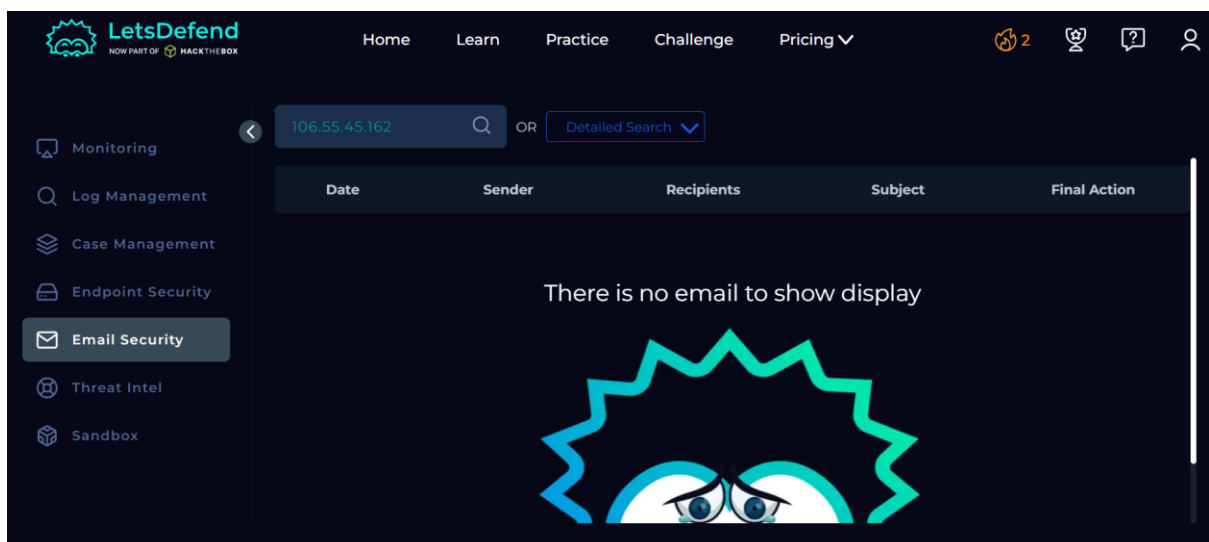
The attacker is using `../` (directory traversal) to climb out of the web folder and access a sensitive system file: `/etc/passwd`. This file stores user account information in Linux, so trying to load it is a clear sign of malicious intent.

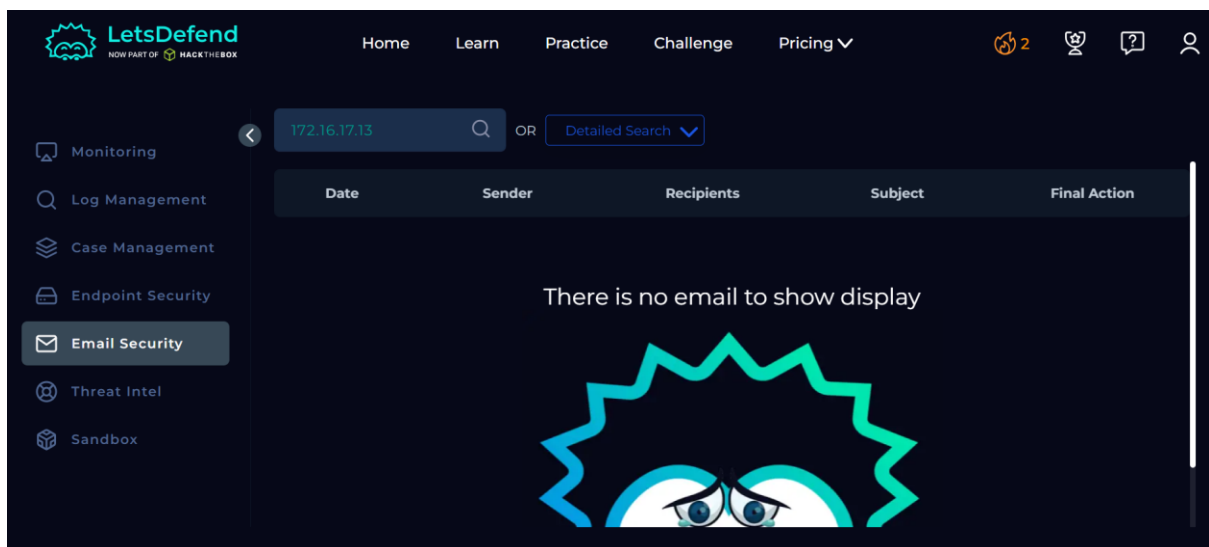


As discussed earlier, this is a LFI attack

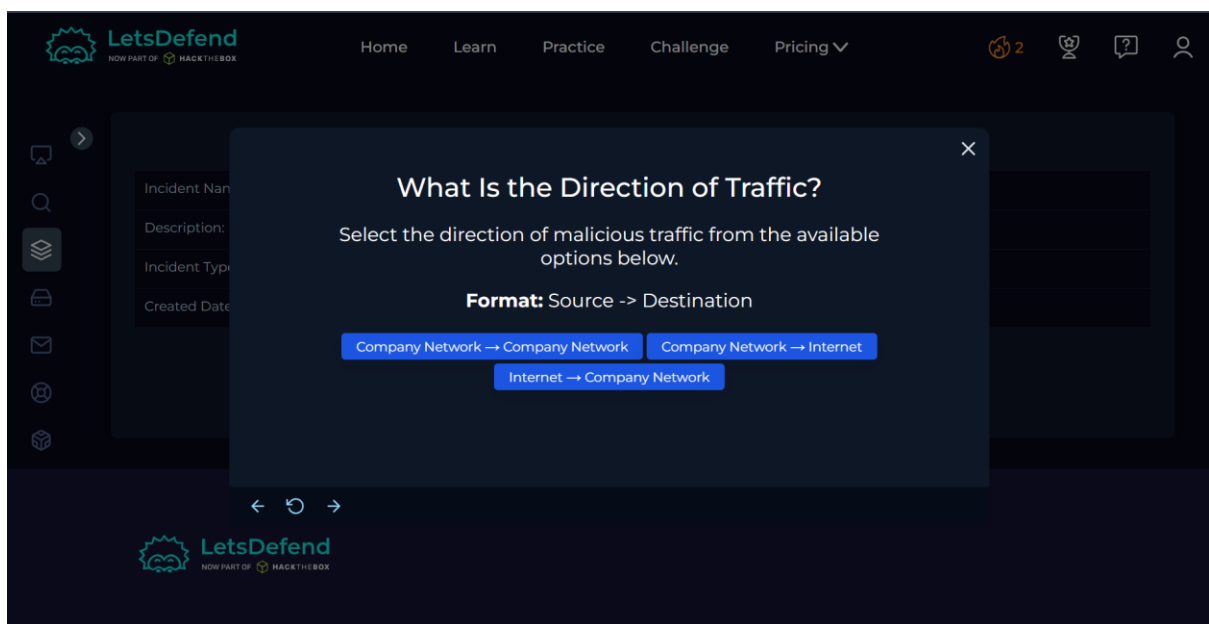


We can check this by using IP address in the Email Security.



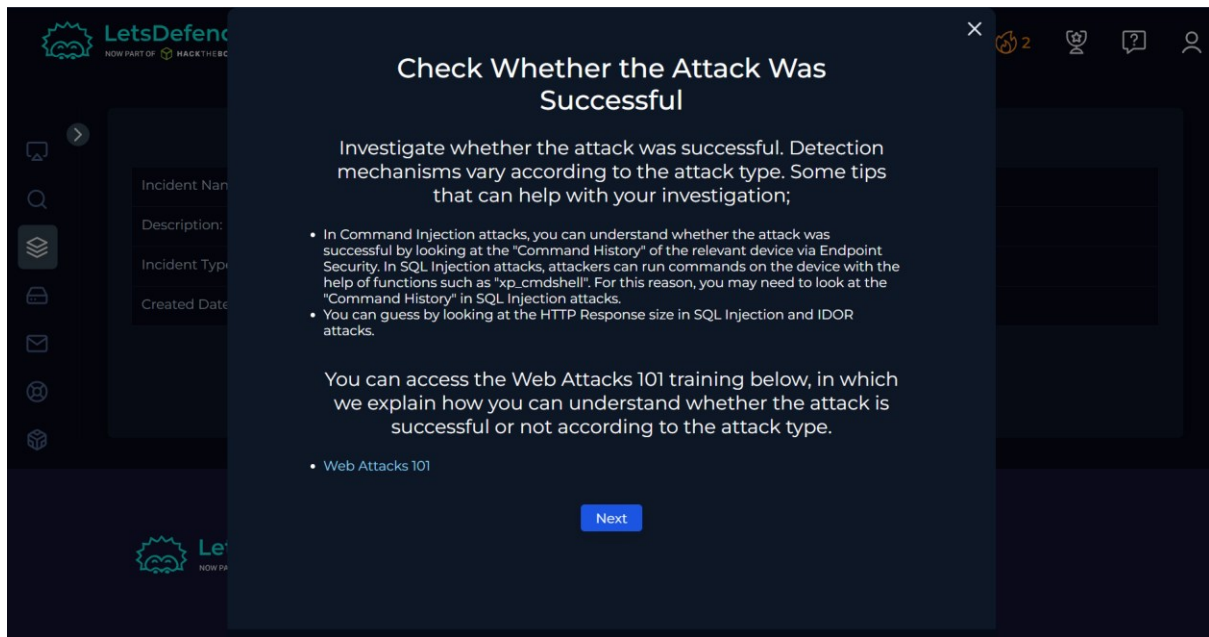


After our search we found out that there is no email exchange related to this attack. So this is Not Planned

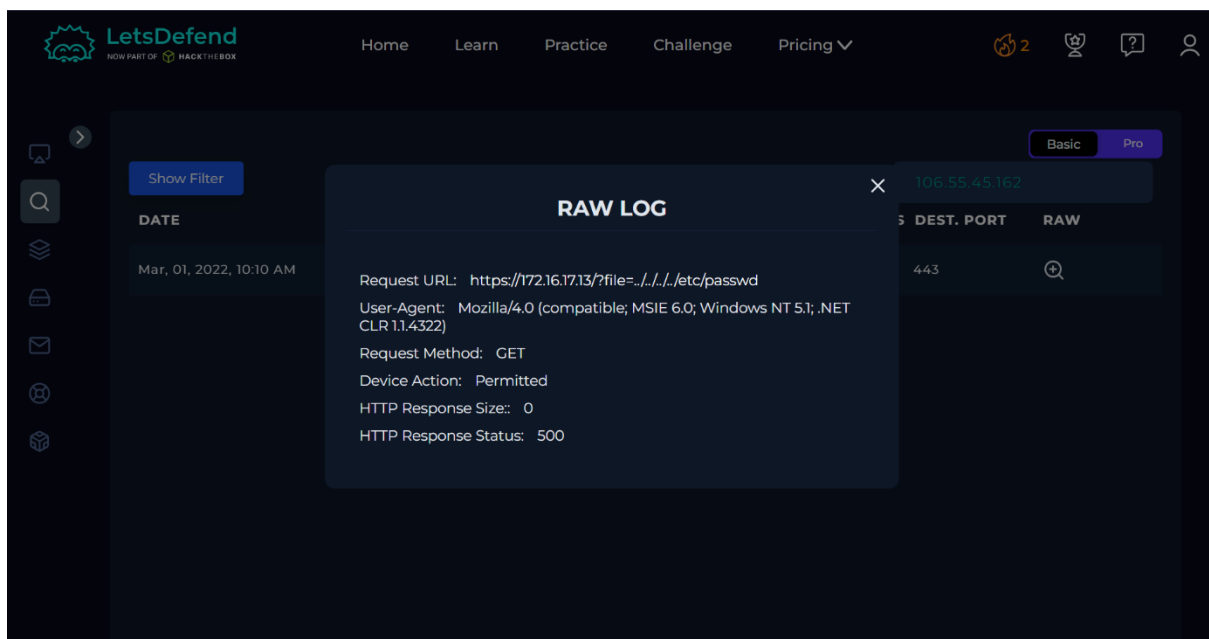


To identify private vs public IPs, just check if the IP falls within the private ranges (10.x.x.x, 172.16–31.x.x, or 192.168.x.x). Any IP outside these ranges is a public IP. In simple terms: private IPs belong to internal networks, while public IPs are reachable from the Internet.

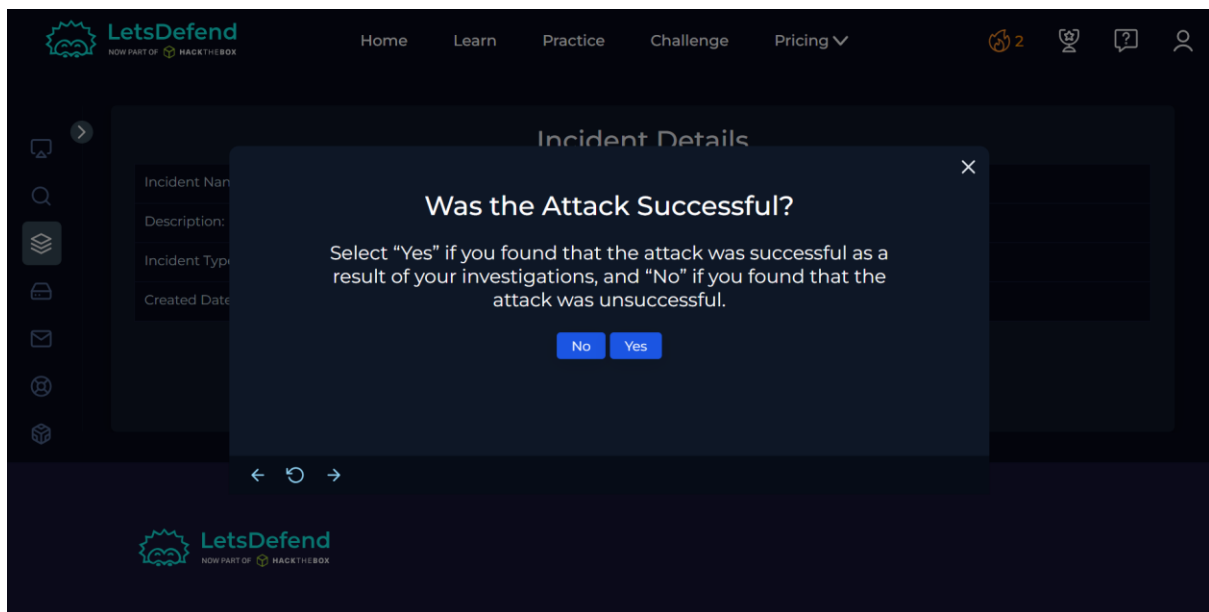
Click on >> Internet -> Company Network



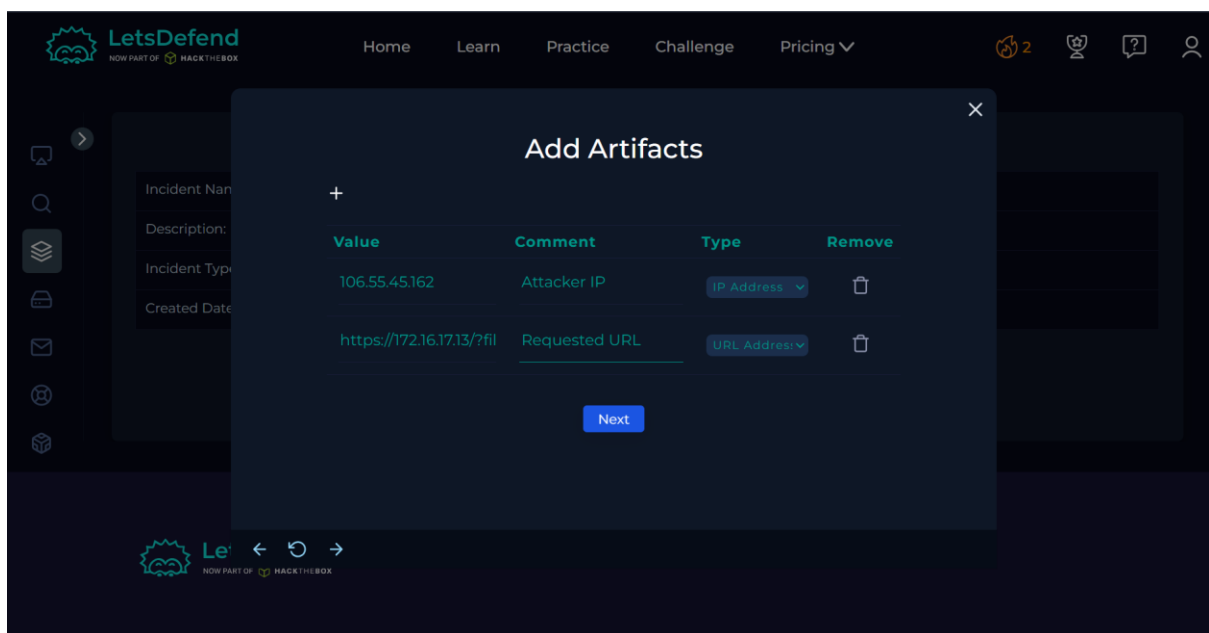
We can recall that the HTTP Response size was zero in our previous log analysis



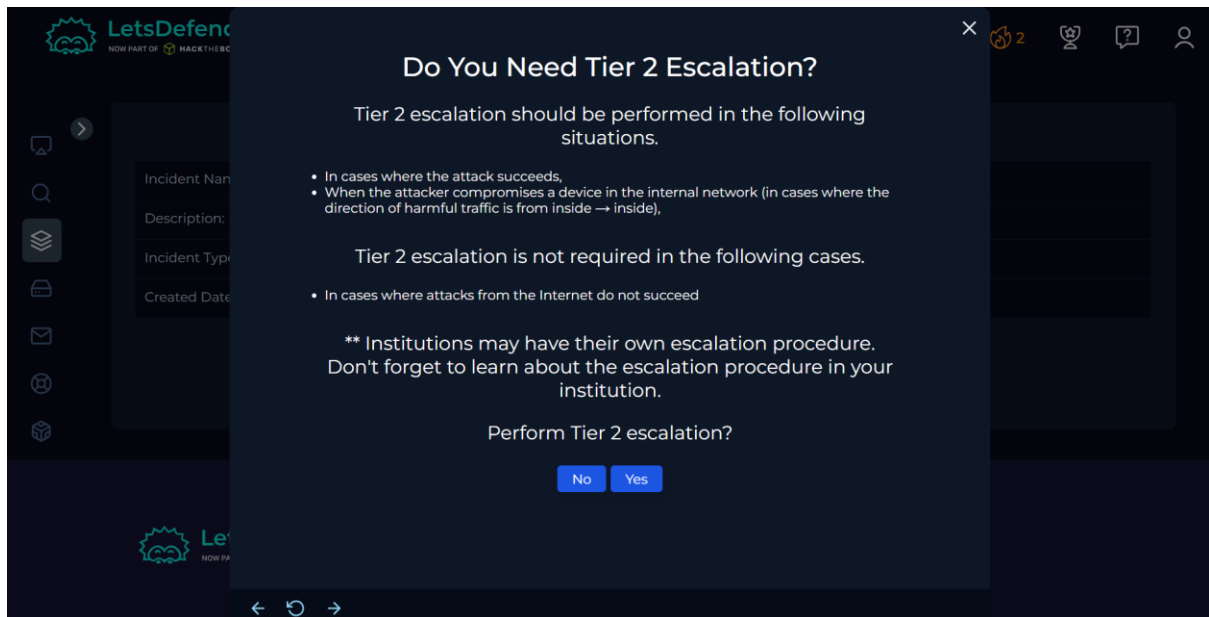
It means the server didn't return any actual data. This indicates that the attacker's request failed and the exploit was not successful.



Click on >> No



Add Artifacts then click Next



As this attack was no successful and there was no communication regarding this, this alert does not require Tier 2 Escalation

Click on >> No

