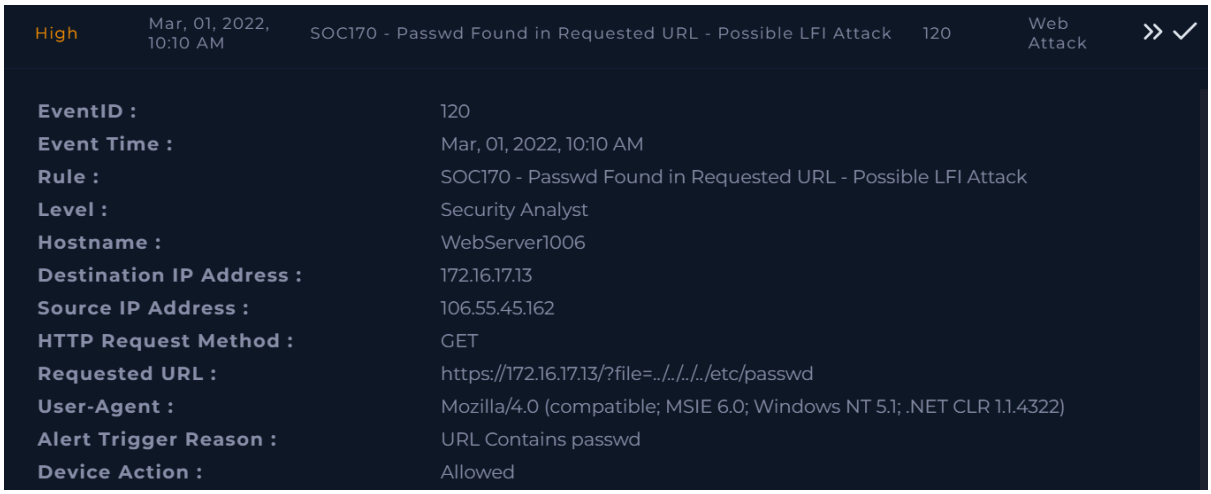
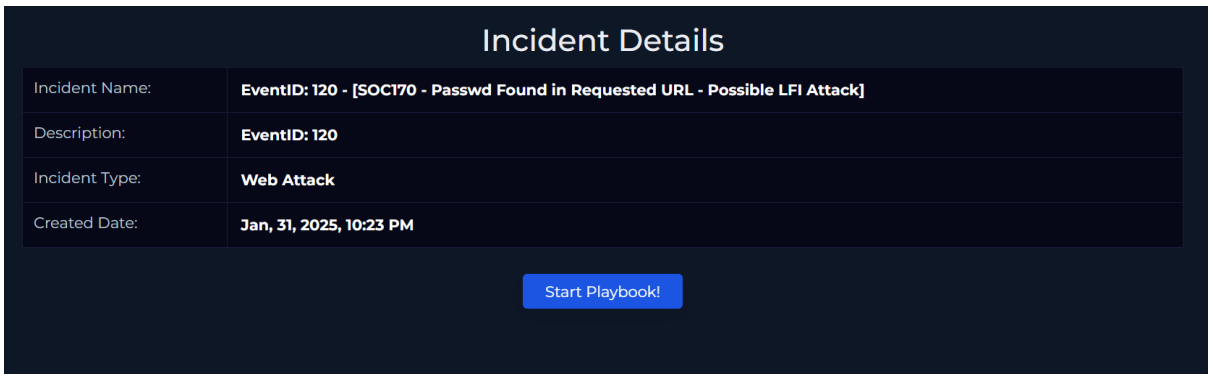
SOC170 – Passwd Found in Requested URL – Possible LFI Attack

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.

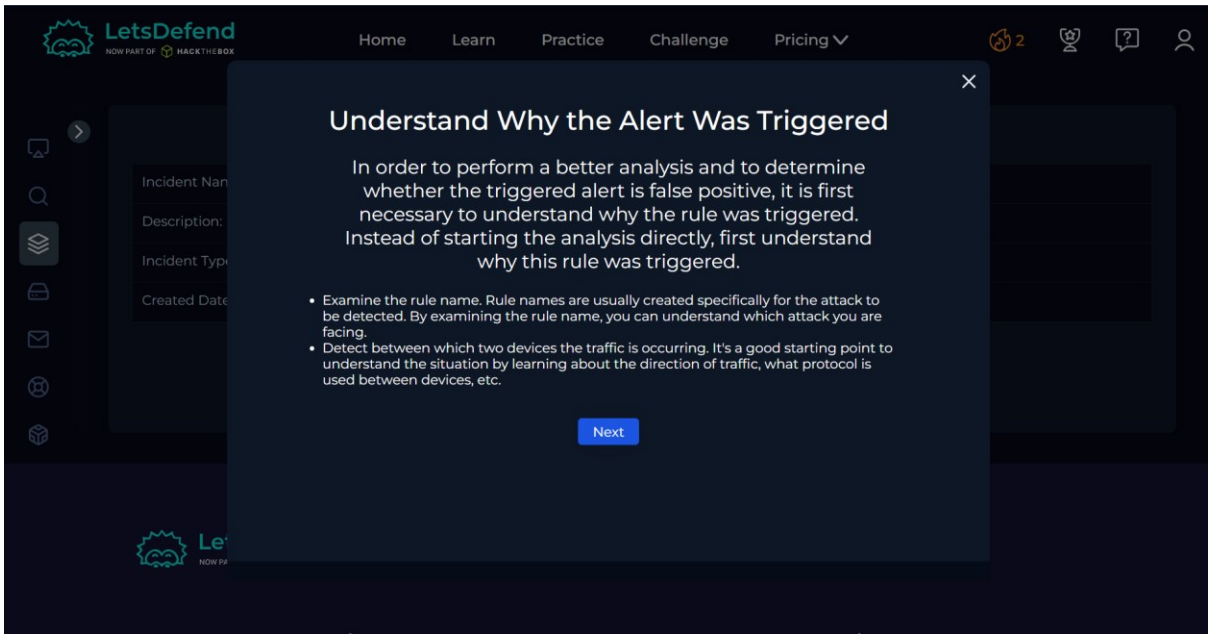


Let’s start with the playbook



Click on >> Start Playbook button

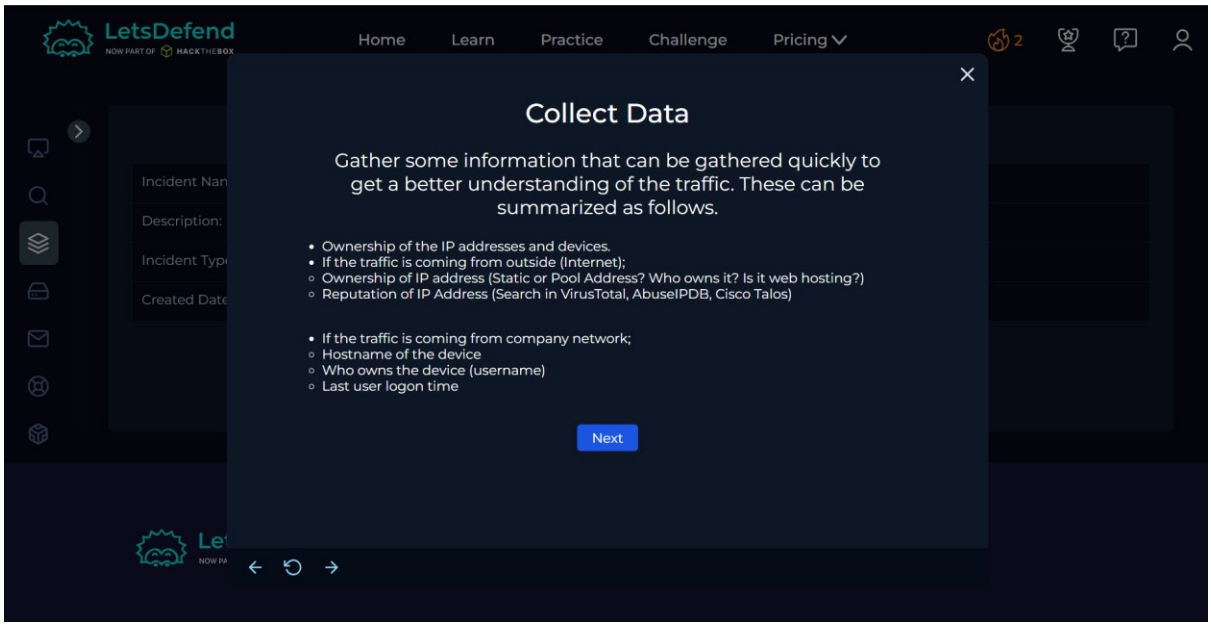
The first step of the playbook is asking us to understand why the alert was triggered



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

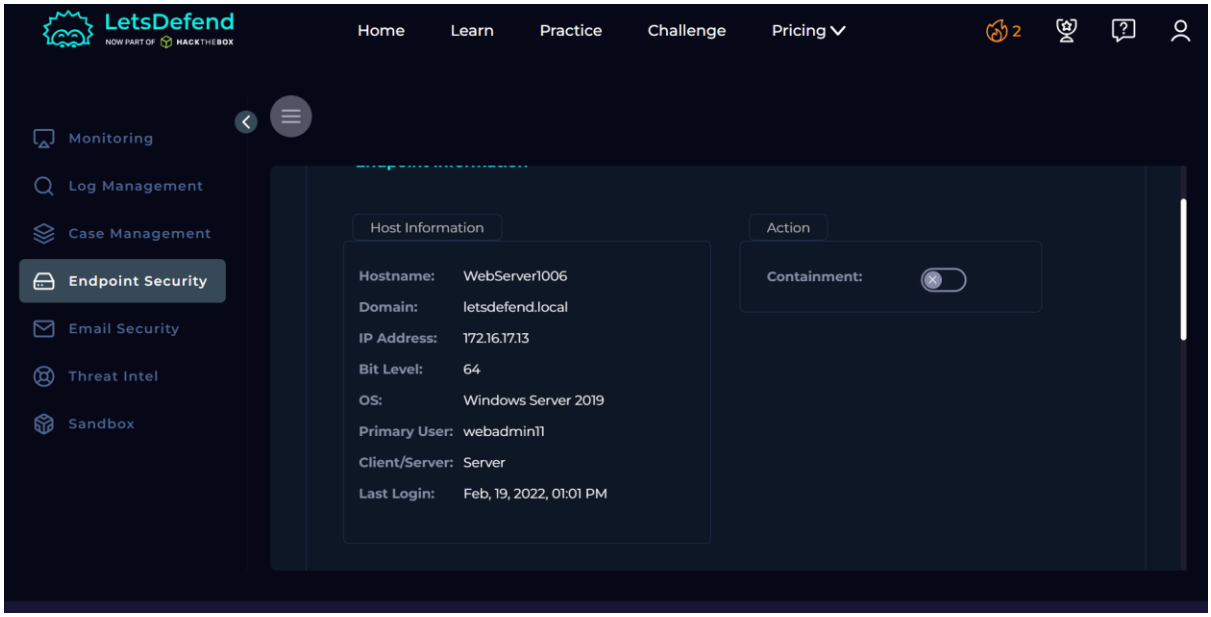
The next step then asks us to determine the traffic path on which it is occurring.

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

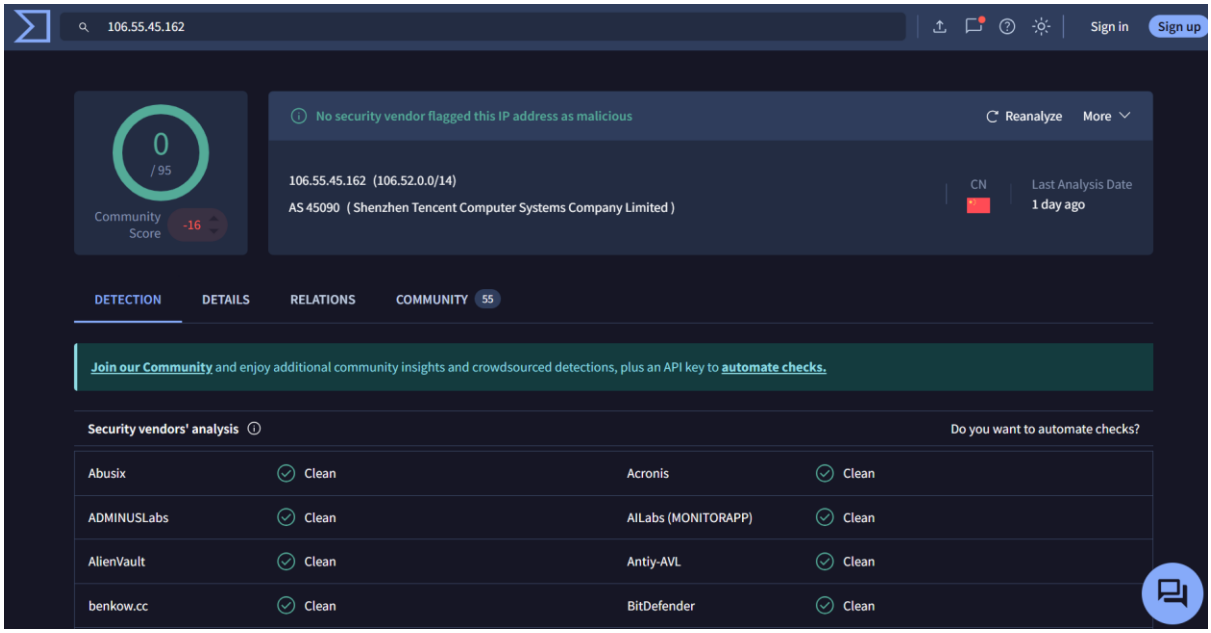


If the traffic is coming from outside (Internet);

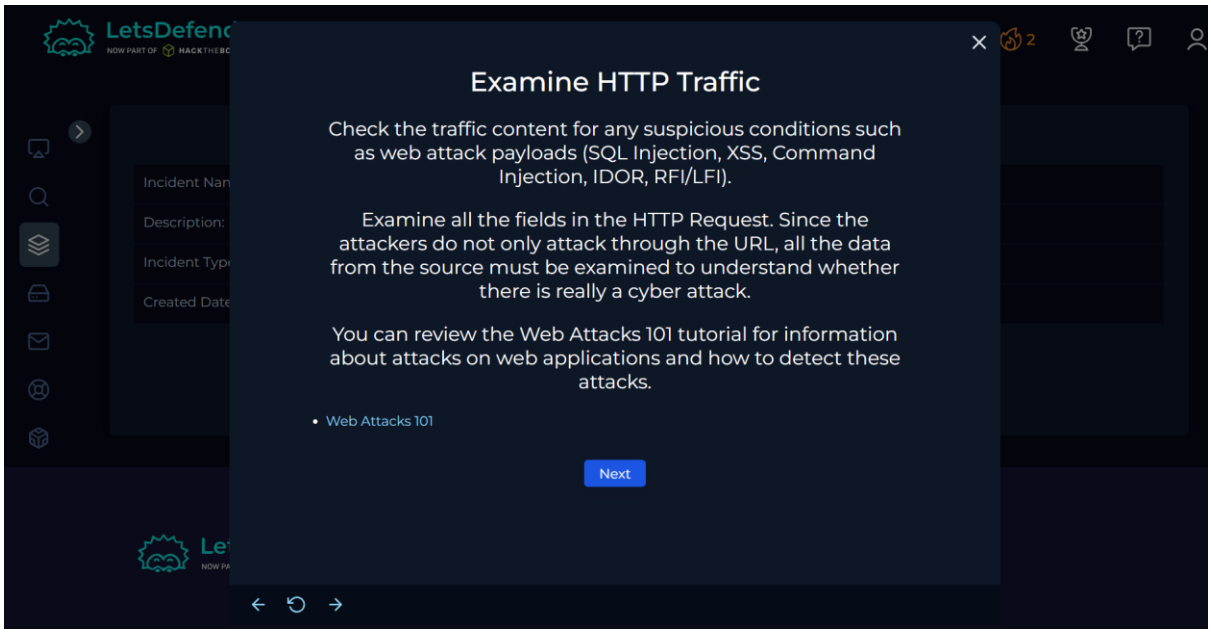
Ownership of IP address (Static or Pool Address? Who owns it? Is it web hosting?)

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

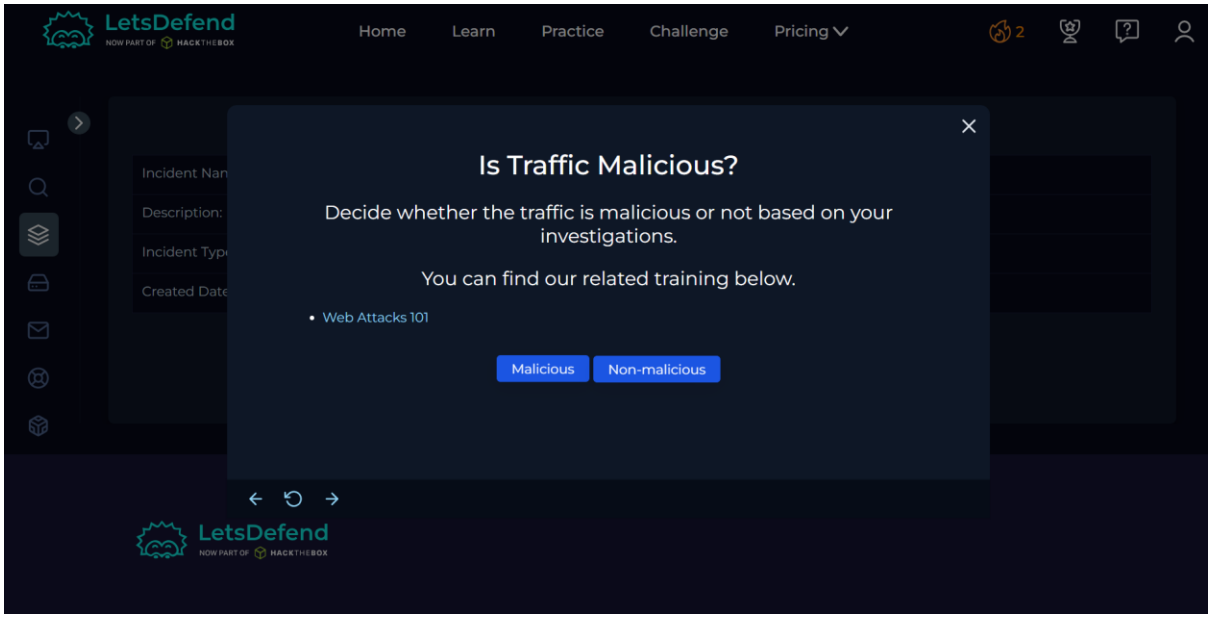
The Reputation of the IP Address is **Suspicious**



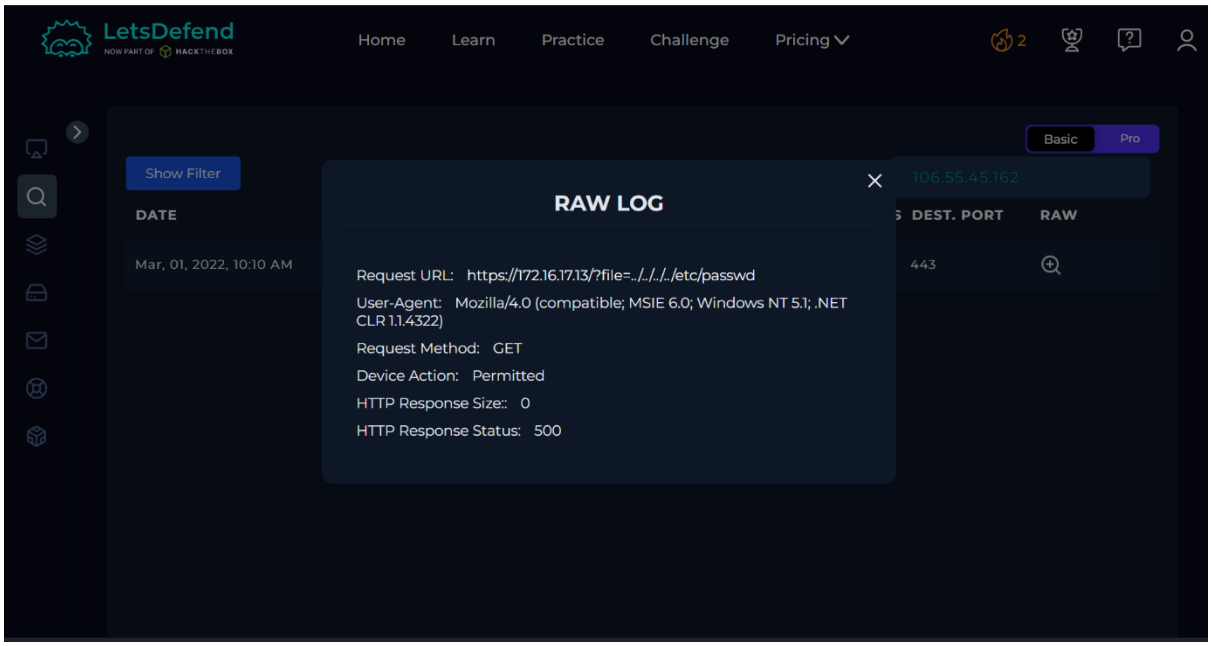
Then we examine the HTTP Traffic by simply looking at the IP address reputation and the log analysis performed in log management.



Click on >> Next



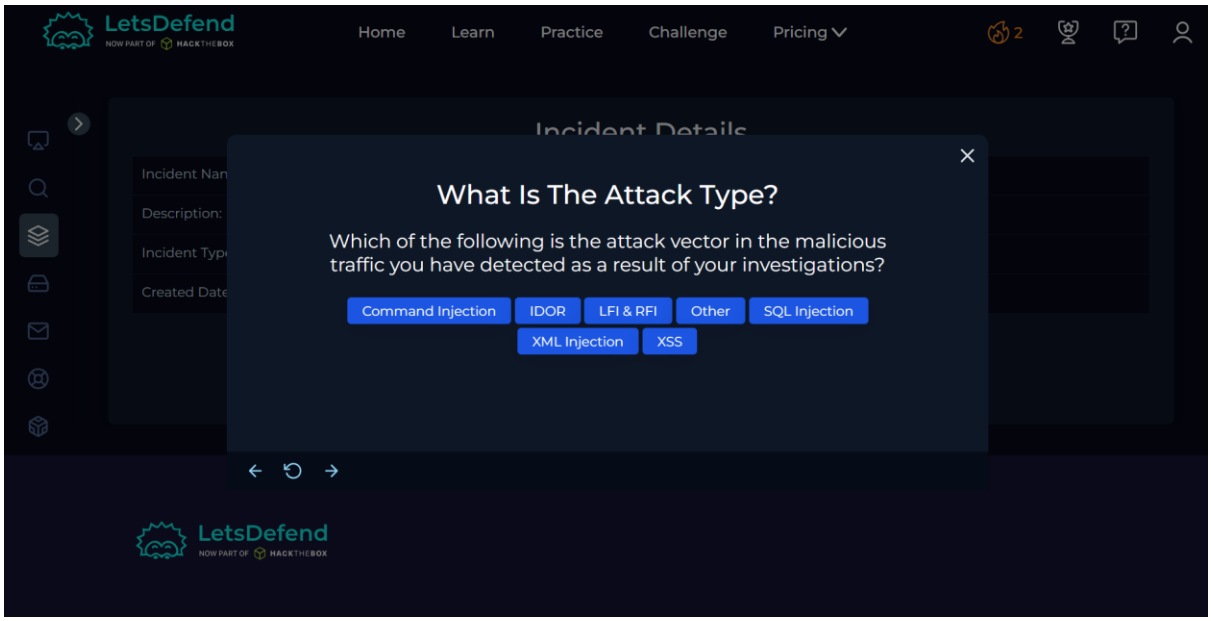
Let's find this out by searching the IP address 106.55.45.162 in log management section. In this log entry, we can clearly see that the attacker is trying to load a system file from the server using the URL parameter file.



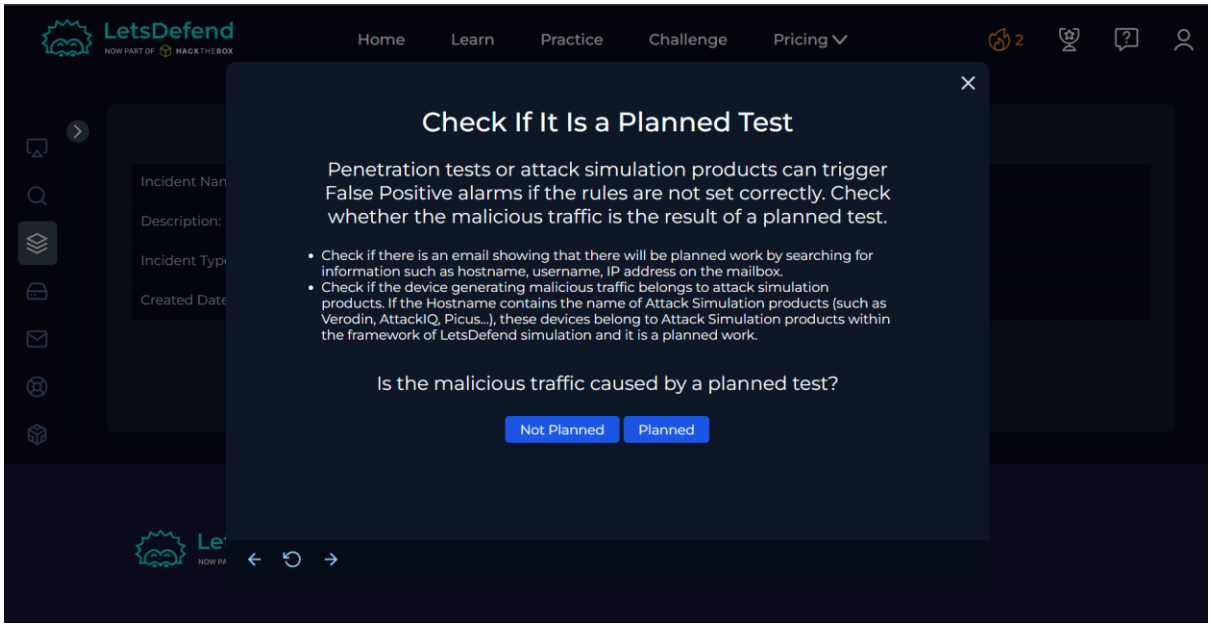
The request looks like this:

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

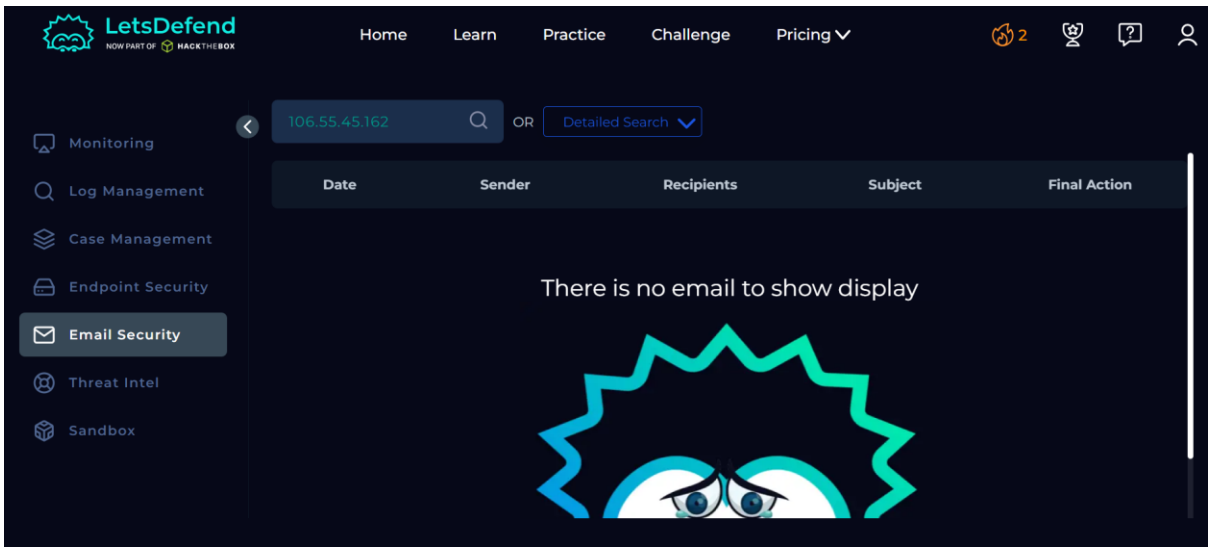
The attacker is using ../ (directory traversal) to climb out of the web folder and access a sensitive system file: /etc/passwd. This file stores user account information in Linux, so trying to load it is a clear sign of malicious intent.

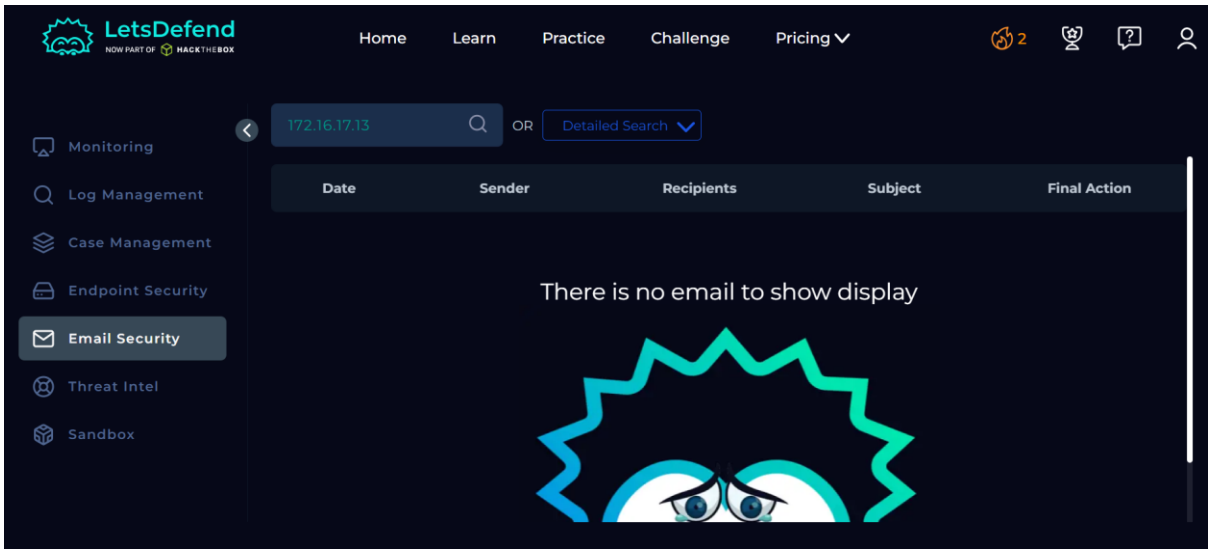


As discussed earlier, this is a LFI attack

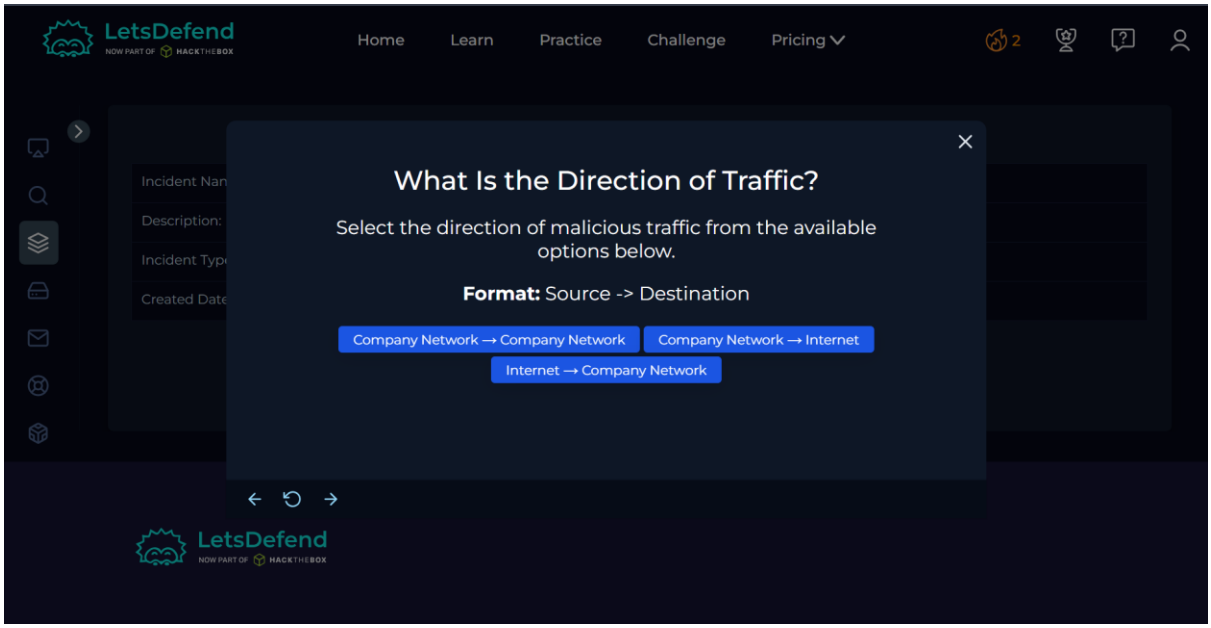


We can check this by using IP address in the Email Security.



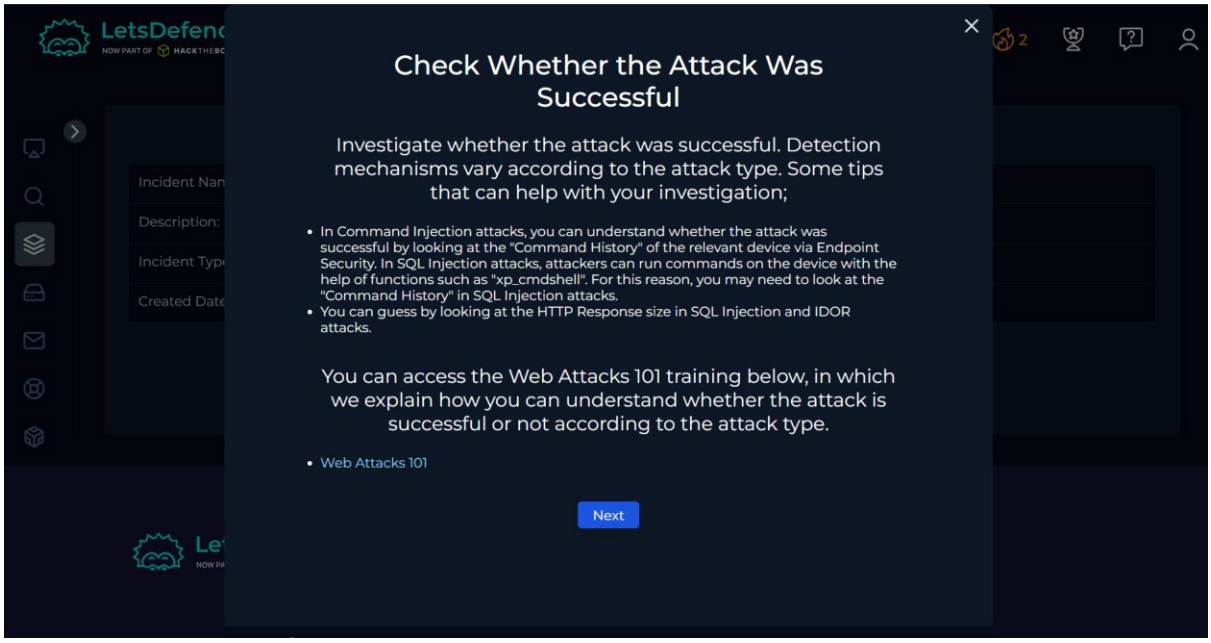


After our search we found out that there is no email exchange related to this attack. So this is Not Planned

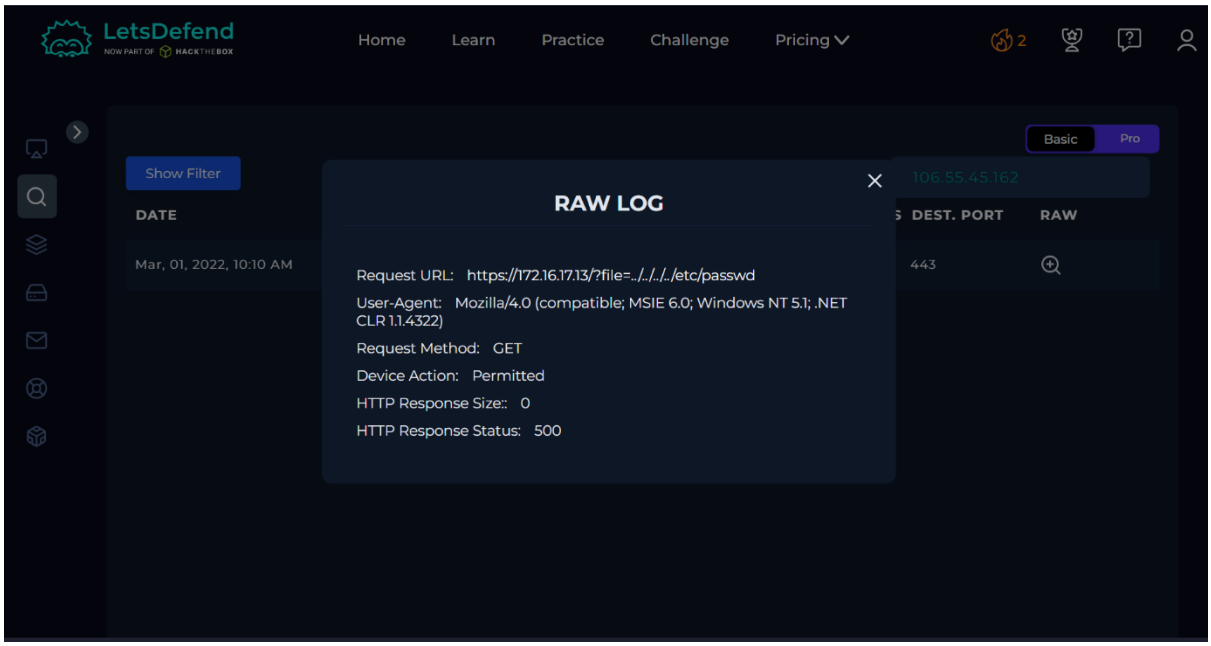


To identify private vs public IPs, just check if the IP falls within the private ranges (10.x.x.x, 172.16–31.x.x, or 192.168.x.x). Any IP outside these ranges is a public IP. In simple terms: private IPs belong to internal networks, while public IPs are reachable from the Internet.

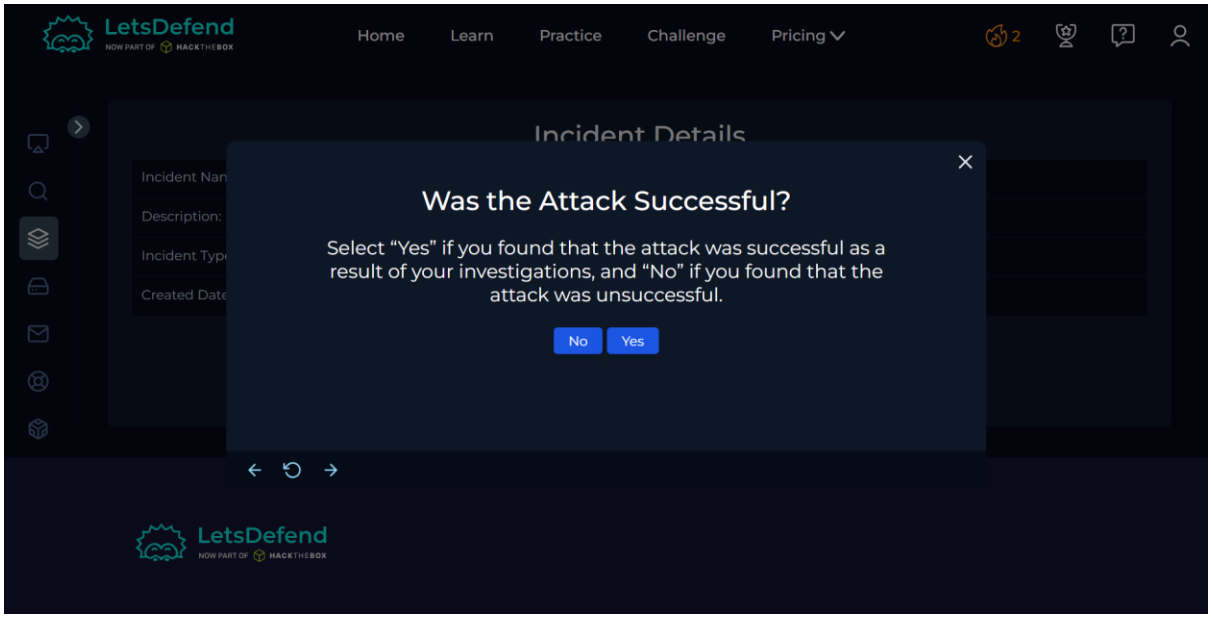
Click on >> Internet -> Company Network



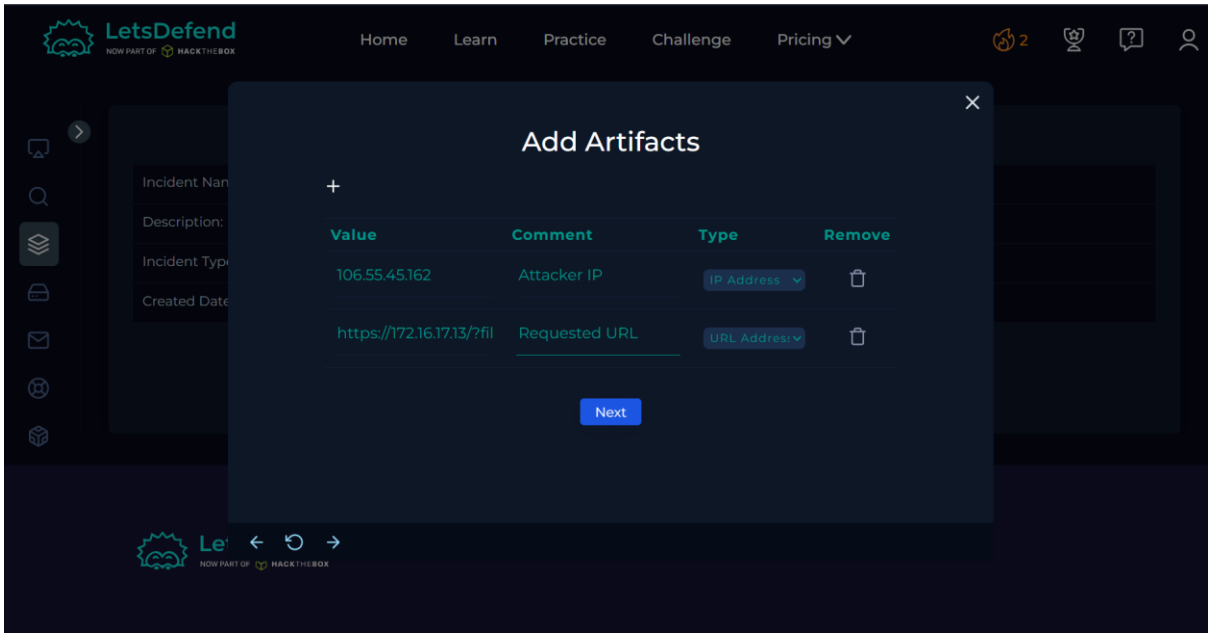
We can recall that the HTTP Response size was zero in our previous log analysis



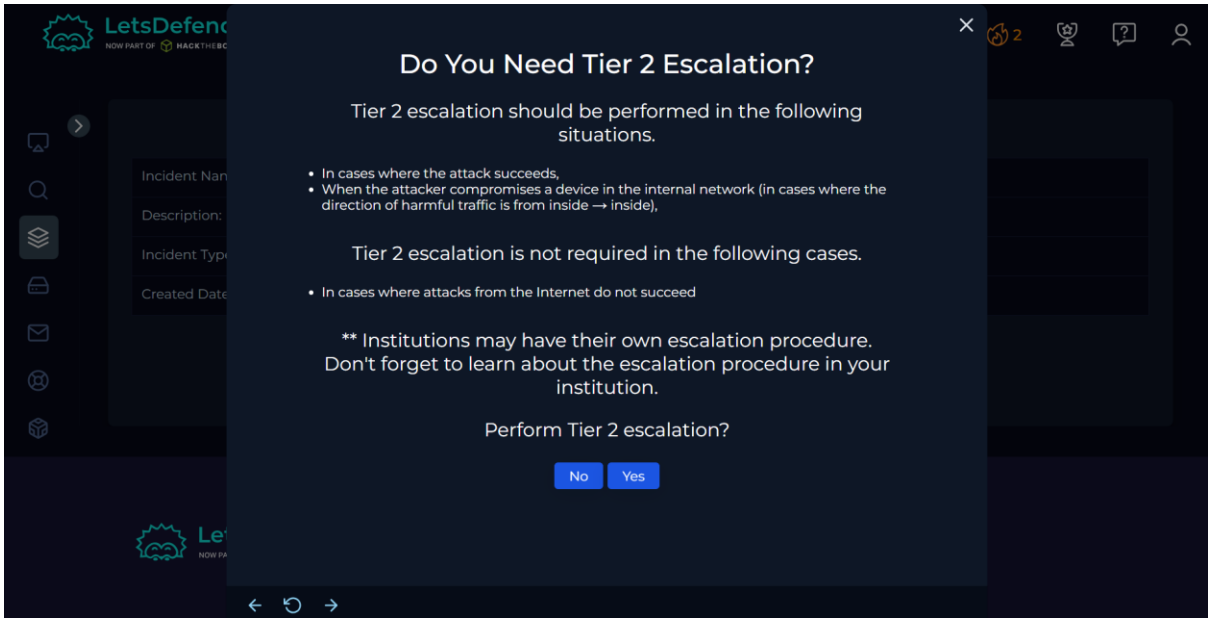
It means the server didn't return any actual data. This indicates that the attacker's request failed and the exploit was not successful.



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