

# SOC170 - Passwd Found in Requested URL - Possible LFI Attack [Let's Defend – write-up]

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## Introduction to Local File Inclusion (LFI)

### Definition:

- Local File Inclusion (LFI) is a critical security vulnerability that occurs when a web application includes files without properly sanitizing user-provided data. Unlike Remote File Inclusion (RFI), LFI exploits involve files located on the same server where the application is hosted.

### Mechanism:

- Attackers exploit parameters (like ?file= or ?lang=) by injecting Path Traversal sequences (../). This allows them to escape the web directory and navigate to the root system, enabling them to read sensitive files like /etc/passwd.

### Detection Method:

- To detect LFI, we monitor web requests for special characters such as /, ., and \. Specifically, we look for common patterns used by attackers to access critical system files or indicators of directory traversal in the URL.

## Initial Analysis

The screenshot shows the LetsDefend platform interface. On the left, there's a sidebar with icons for Monitoring, Log Management, Case Management, Endpoint Security, Email Security, Threat Intel, and Sandbox. The main area has three tabs: MAIN CHANNEL, INVESTIGATION CHANNEL, and CLOSED ALERTS. The MAIN CHANNEL tab is selected. It displays a table of alerts with columns: SEVERITY, DATE CLOSED, RULE NAME, EVENTID, TYPE, and RESULT ACTION. One alert is highlighted with a red border: SOC170 - Passwd Found in Requested URL - Possible LFI Attack, dated Jan, 24, 2026, 12:19 AM, with EventID 120 and Type Web Attack. The RESULT ACTION column for this row also has a red border around the '✓' icon. The other five alerts listed are all marked with an 'X' in the RESULT ACTION column. The top right of the interface shows a notification badge with '7', a search icon, and a user profile icon.

SEVERITY	DATE CLOSED	RULE NAME	EVENTID	TYPE	RESULT ACTION
High	Jan, 24, 2026, 12:19 AM	SOC170 - Passwd Found in Requested URL - Possible LFI Attack	120	Web Attack	✓
High	Jan, 21, 2026, 10:59 PM	SOC114 - Malicious Attachment Detected - Phishing Alert	45	Exchange	✗
Medium	Jan, 21, 2026, 10:54 PM	SOC120 - Phishing Mail Detected - Internal to Internal	52	Exchange	✗
Medium	Jan, 21, 2026, 10:53 PM	SOC120 - Phishing Mail Detected - Internal to Internal	52	Exchange	✗
Medium	Jan, 21, 2026, 10:51 PM	SOC140 - Phishing Mail Detected - Suspicious Task Scheduler	82	Exchange	✓
High	Jan, 21, 2026, 10:44 PM	SOC141 - Phishing URL Detected	86	Proxy	✓

Figure 1: Alert SOC170 - Passwd Found in Requested URL - Possible LFI Attack.

### 1. Understand Why the Alert Was Triggered

- **Rule:** SOC170 - Possible LFI Attack.

- **Trigger:** The system detected the string `/etc/passwd` with traversal characters `../../../../` in the URL.
- **Direction:** Inbound from External IP (**106.55.45.162**) to Internal WebServer (**172.16.17.13**).

## 2. Data Collection & Evidence

- **Source Ownership:** The source IP address (106.55.45.162) is an **External IP** located in China. Based on the lookup, it belongs to **Tencent Cloud Computing**, which is a hosting/cloud provider.

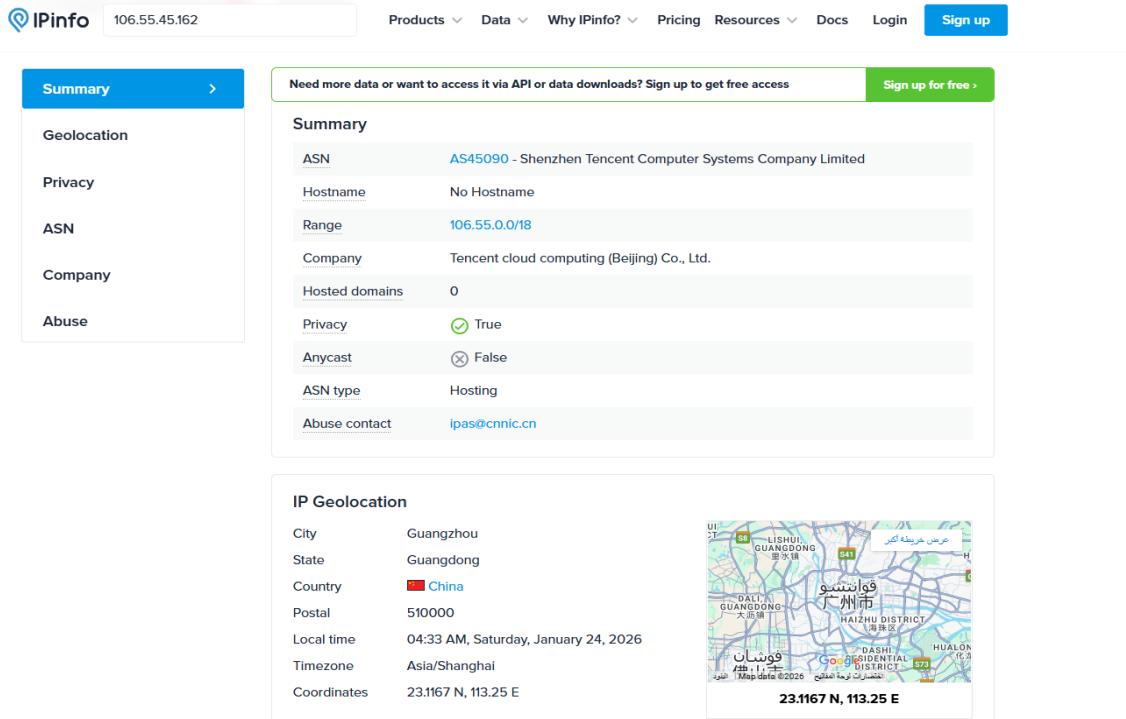


Figure 2: IPinfo ownership details for 106.55.45.162.

- **Destination Ownership:** The destination IP address (**172.16.17.13**) is an Internal Asset identified as **WebServer1006**. This confirms the target is an internal company web server.
- **Reputation Check:** A comprehensive reputation check was performed across multiple platforms:
- **VirusTotal & Cisco Talos:** Returned a "Neutral/Clean" score (0/92), indicating no recent blacklisting by security vendors.
- **AbuseIPDB:** Revealed that this IP is highly suspicious, with over 3,455 reports from 522 distinct sources. The reports explicitly mention SSH Brute-force and Web Application Attacks.

**Conclusion:** Despite the clean score on some platforms, the extensive history in AbuseIPDB confirms this is a Known Malicious Actor.

The screenshot shows the AbuseIPDB interface for the IP address 106.55.45.162. At the top, it displays a yellow banner stating "106.55.45.162 was found in our database!" followed by "This IP was reported 3,455 times. Confidence of Abuse is 1%." Below this, there is a summary table with the following details:

ISP	Tencent cloud computing (Beijing) Co., Ltd.
Usage Type	Data Center/Web Hosting/Transit
ASN	<a href="#">AS45090</a>
Domain Name	tencent.com
Country	China
City	Guangzhou, Guangdong

Below the summary is a note: "IP info including ISP, Usage Type, and Location provided by IPInfo. Updated biweekly." At the bottom of the main section are two green buttons: "REPORT IP" and "WHOIS SEARCH".

Under the heading "IP Abuse Reports for 106.55.45.162:", it states: "This IP address has been reported a total of 3,455 times from 522 distinct sources. 106.55.45.162 was first reported on April 19th 2021, and the most recent report was 1 month ago." It also notes: "Old Reports: The most recent abuse report for this IP address is from 1 month ago. It is possible that this IP is no longer involved in abusive activities."

A table titled "Reporters" lists four recent abuse reports:

Reporter	IoA Timestamp (UTC)	Comment	Categories
silvelo	2025-12-15 14:24:38 (1 month ago)	SSH-Attack	Brute-Force SSH
silvelo	2025-07-28 08:52:16 (5 months ago)	SSH-Attack	Brute-Force SSH
silvelo	2025-07-24 09:26:10 (5 months ago)	SSH-Attack	Brute-Force SSH
silvelo	2025-04-29 07:35:11	SSH-Attack	Brute-Force

Figure 3: AbuseIPDB reputation score.

The screenshot shows the VirusTotal interface for the IP address 106.55.45.162. At the top, it displays a green banner stating "No security vendor flagged this IP address as malicious". Below this, it shows the IP address and its ASN: "106.55.45.162 (106.52.0.0/14)" and "AS 45090 (Shenzhen Tencent Computer Systems Company Limited)". It also shows the location "CN" and the "Last Analysis Date" as "1 day ago".

Below the banner, there are tabs for "DETECTION", "DETAILS", "RELATIONS", and "COMMUNITY". The "COMMUNITY" tab is selected, showing the number "57". A green button at the bottom encourages users to "Join our Community and enjoy additional community insights and crowdsourced detections, plus an API key to automate checks."

A table titled "Security vendors' analysis" lists the results from various vendors:

Vendor	Result	Vendor	Result
Abusix	Clean	Acronis	Clean
ADMINUSLabs	Clean	Allabs (MONITORAPP)	Clean
AlienVault	Clean	Antiy-AVL	Clean
benkow.cc	Clean	BitDefender	Clean
Blueliv	Clean	Certego	Clean
ChongLuo Dao	Clean	CINS Army	Clean

Figure 4: VirusTotal reputation score.

### 3. Log Management Investigation

#### Analysis of Server Logs:

- I conducted a search in the Log Management system for all activities associated with the source IP **106.55.45.162**. I examined the server's response to the specific request: `/?file=../../../../etc/passwd`.

The screenshot shows the LetsDefend platform interface. On the left, there is a sidebar with icons for Monitoring, Log Management (which is selected), Case Management, Endpoint Security, Email Security, Threat Intel, and Sandbox. The main area is titled "RAW LOG" and displays the following details:

- Request 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)
- Request Method: GET
- Device Action: Permitted
- HTTP Response Size: 0
- HTTP Response Status: 500

Figure 5: Log Management Alert.

Raw Log Details						
DATE	TYPE	SRC ADDRESS	SRC PORT	DEST. ADDRESS	DEST. PORT	RAW
Mar, 01, 2022, 10:10 AM	Firewall	106.55.45.1...	49028	172.16.17.13	443	+

Figure 6: Log Management Alert count.

### Key Findings:

- HTTP Response Status: 500 (Internal Server Error).
- HTTP Response Size: 0 Bytes.
- Device Action: Permitted (by Firewall) but effectively failed at the application level.

### Investigation Conclusion:

- The Status Code 500 indicates that the web server encountered an error and did not execute the malicious command. Furthermore, the Response Size of 0 confirms that no sensitive data (such as the contents of /etc/passwd) was returned to the attacker.

## 4. Is Traffic Malicious?

**Decision:** Yes.

**Reasoning:**

- Payload: Contains a clear LFI attack (`../../../../etc/passwd`).
- Reputation: The source IP has over 3,400 malicious reports on AbuseIPDB.
- Intent: Clear attempt to access sensitive system files from an unauthorized external source.

## 5. Planned Test Verification

- **Check for Simulation:**
  - A review of the internal communication and mailbox was performed. No scheduled penetration tests or vulnerability scans were found for **WebServer1006** during this timeframe.
- **Hostname/IP Check:**
  - The source IP and hostname do not belong to any known attack simulation products (e.g., Verodin, Picus).

**Conclusion:** This is **not** a planned test; it is an unauthorized external attack.

## 6. Attack Success & Direction

- **Traffic Direction:**
  - The traffic direction is **Internet -> Company Network** (Inbound).
- **Was the Attack Successful?**
  - **Answer: No.**
  - **Reasoning:** As documented in the Log Investigation, the server responded with an **HTTP 500 error** and **0 bytes** were transferred. The system successfully prevented the file inclusion.

## 7. Containment & Remediation

- **Device Isolation:**
  - **Decision:** No isolation is required for **WebServer1006** as the attack **failed** and there is no evidence of compromise.
- **Actions Taken:**
  - **IP Blacklisting:** Block **106.55.45.162** at the network perimeter.
  - **No Escalation/Containment:** Since the attack failed and the device is not compromised, Tier 2 escalation and device isolation are not required.

- **Vulnerability Fix:** Patch the vulnerable file parameter on the web application.

## 8. Final Verdict

- **Status: True Positive.**
- **Note:** The alert is a True Positive because it detected a real malicious intent (LFI attempt), even though the attack was unsuccessful.

## Conclusion & Playbook Verdict

**Summary:** The investigation confirms this is a **True Positive** case of a malicious **LFI (Local File Inclusion)** attempt. Although the attacker targeted sensitive system files, the attack **failed** at the application level (Status 500), and no data was compromised.

### Final Decisions:

- **Is Traffic Malicious?** Yes.
- **Attack Type:** LFI (Local File Inclusion).
- **Planned Test:** No.
- **Traffic Direction:** Internet -> Company Network.
- **Was the Attack Successful?** No.
- **Tier 2 Escalation:** No.

SEVERITY	DATE CLOSED	RULE NAME	EVENTID	TYPE	RESULT ACTION
High	Jan, 24, 2026, 12:19 AM	SOC170 - Passwd Found in Requested URL - Possible LFI Attack	I20	Web Attack	✓

This alert has been re-investigated

EventID : I20  
Event Time : Mar, 01, 2022, 10:00 AM  
Rule : SOC170 - Passwd Found in Requested URL - Possible LFI Attack  
Answer : True Positive (+5 Point)  
Playbook Answers :  
Do You Need Tier 2 Escalation? (+5 Point)  
Was the Attack Successful? (+5 Point)  
What Is the Direction of Traffic? (+5 Point)  
Check If It Is a Planned Test (+5 Point)  
What Is the Attack Type? (+5 Point)  
Is Traffic Malicious? (+5 Point)

Analyst Note : True Positive  
Community Walkthrough : Show  
Editor Note : From the Log Management page, filtering according to the source IP address should be done and the relevant request should be reached.  
When we examine the details of the request, it is seen that the status code is 500 and the response size is 0. For this reason, the attack was unsuccessful.  
There is no need to contain the device or escalate the incident to the next level.

Figure 7: Final closure of Alert SOC170.