EXPERIMENT--04

Aim:

To use a Mail Header Analyzer (MHA) to trace an email's origin and verify its authenticity by examining its header for signs of spoofing.

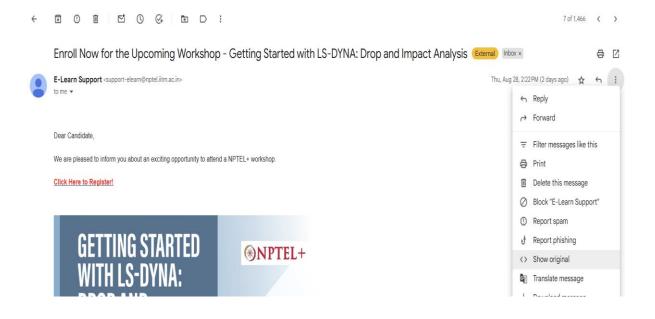
Tools Used:

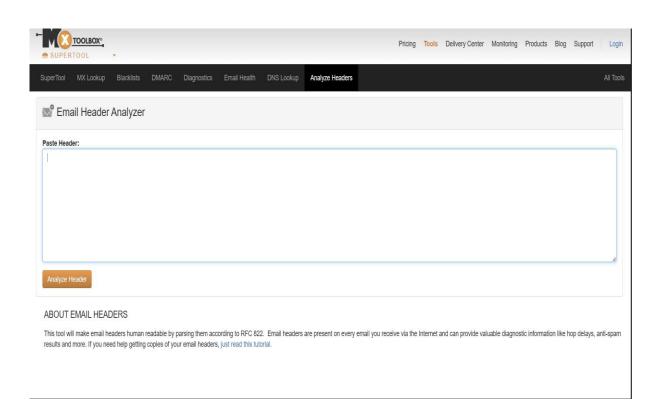
- •Mail Header Analyzer (online tool or built-in)
- •Web browser
- •Sample email with full header

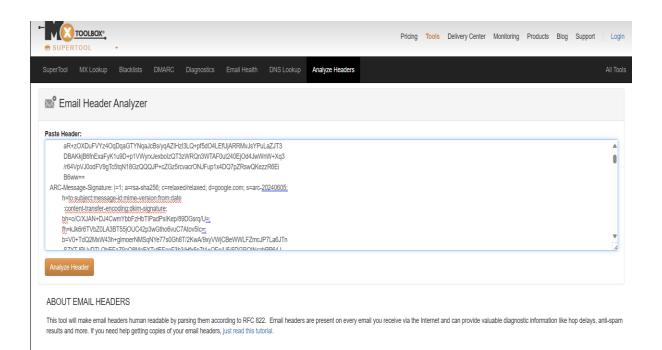
Procedure:

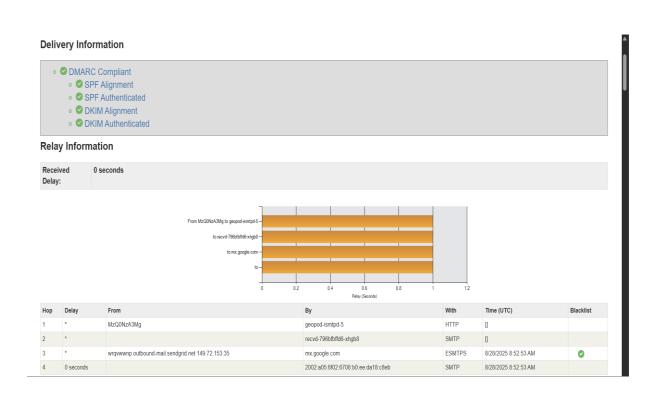
- 1. Open the email and access its full header information (available in most email clients under "Show Original" or "View Source").
- 2. Copy the entire email header text.
- 3. Open a Mail Header Analyzer tool (e.g., MxToolbox MHA or Google Apps Toolbox).
- 4. Paste the copied email header into the analyzer's input field.
- 5. Run the analysis to extract details such as the sender's IP address, mail servers used, and authentication results.
- 6. Check for SPF, DKIM, and DMARC authentication results to detect possible spoofing.
- 7. Compare the originating IP address with the claimed sender domain to verify legitimacy.

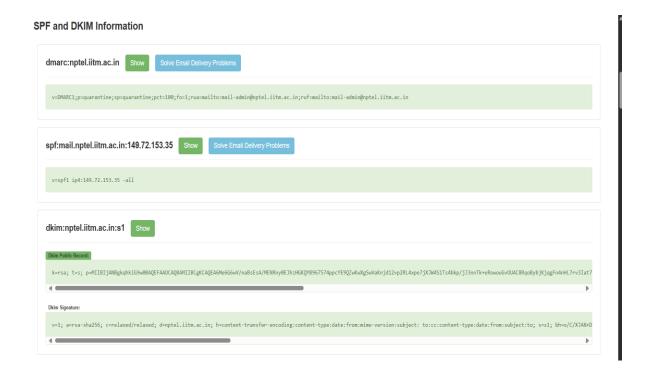
Outputs:



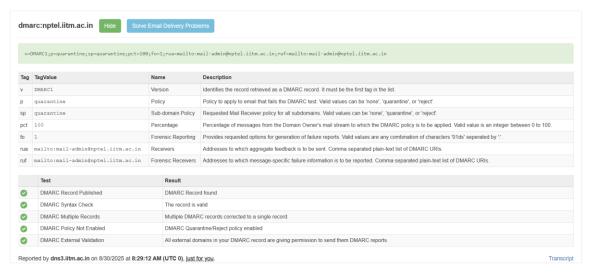








SPF and DKIM Information



Result:

The Mail Header Analyzer successfully traced the email's origin and provided authentication details, helping to identify whether the email was genuine or spoofed.