EXPERIMENT-4

MHA Analyzer (Message Header Analyzer)

Aim:

To parse and interpret raw email headers—making them human-readable and helping investigators trace the email's route, source IP, delays, and authentication status.

Tools / Features:

- A **Flask-based web tool** developed by lnxg33k that accepts pasted email headers and translates them into a clearer, visual format. It identifies hop delays, source IPs, and even the country of each hop.
- Available both as:
 - A **web-based standalone version** hosted at *mha.azurewebsites.net*
 - An Outlook add-in that integrates directly into Outlook/OWA to display header analysis inline

Process:

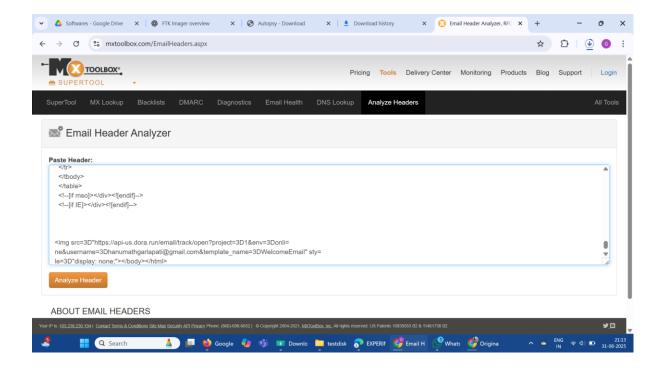
1. Via Web:

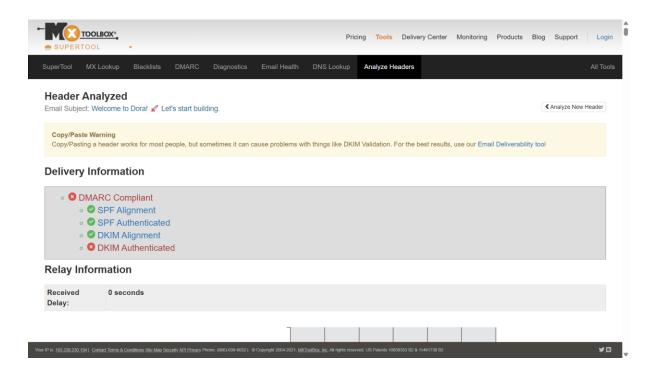
- a. Navigate to the MHA web app (e.g., mha.azurewebsites.net).
- b. Paste the raw email header text into the input field.
- c. The tool instantly parses and visualizes the routing path, delays, and metadata.

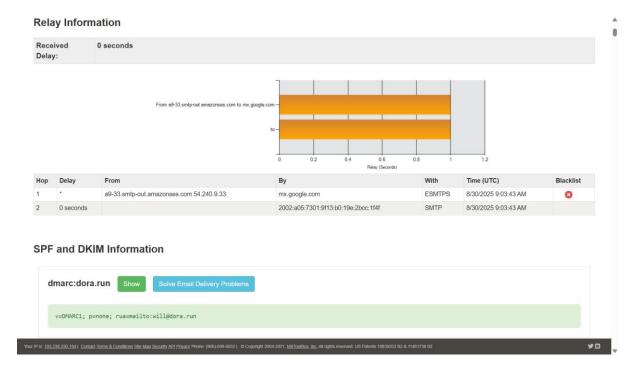
2. Via Outlook Add-in:

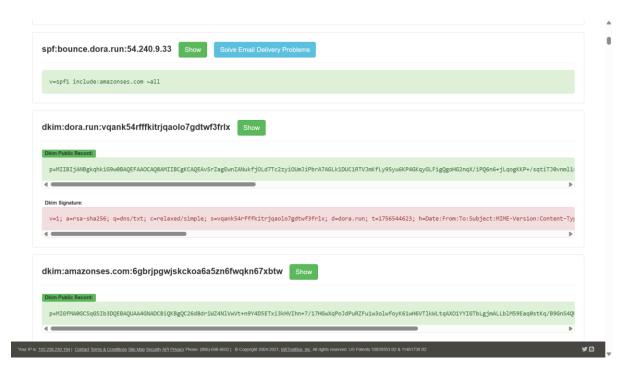
- a. Install the Message Header Analyzer add-in via Exchange Admin Center or Office Store
- b. Once enabled, open an email in Outlook or OWA and click the MHA icon to view the parsed header details inline.

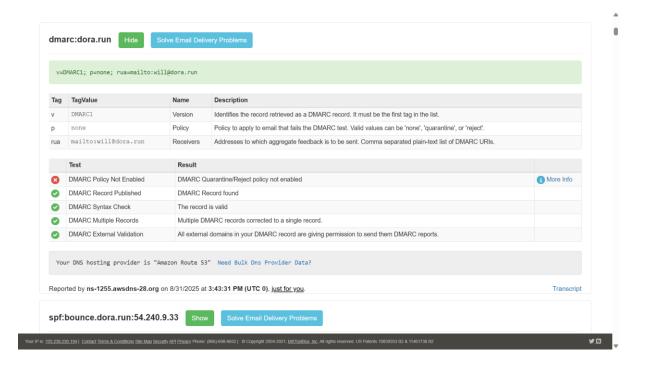
OUTPUT:











Result:

- The raw email headers are transformed into a structured, user-friendly format.
- You can easily see the hop-by-hop journey of the email, including timestamps, delays, source IPs, and countries—helpful for tracking and forensic analysis.
- In Outlook, this analysis is accessible directly within the email interface through the add-in.