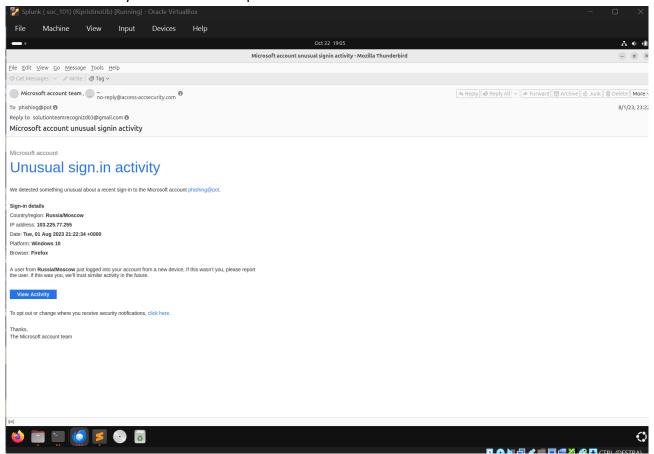
## Suspicious Email Analysis – Credential Capture Attempt

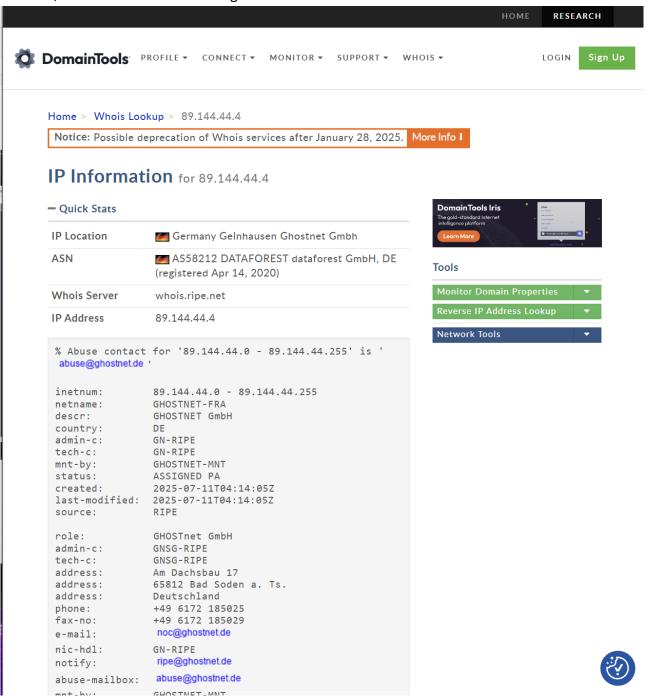
During my email forensics training, I investigated a suspicious message disguised as a Microsoft security alert. The email, extracted as a .eml file, was analyzed in raw format. At first glance, the message seemed legitimate, warning about an unusual login from Moscow. However, several noteworthy details raised suspicion.

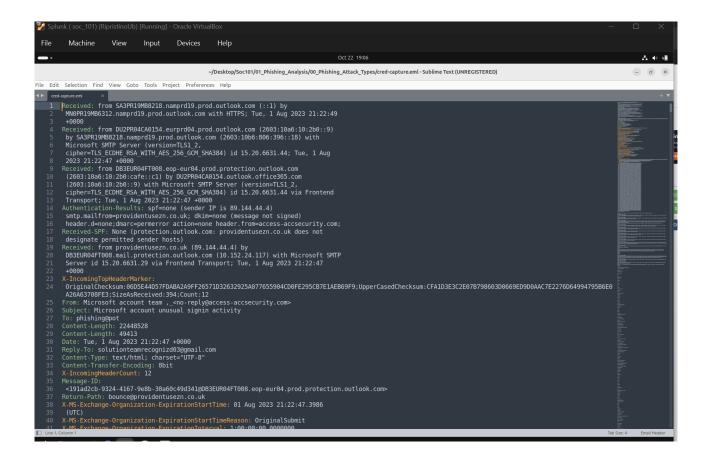


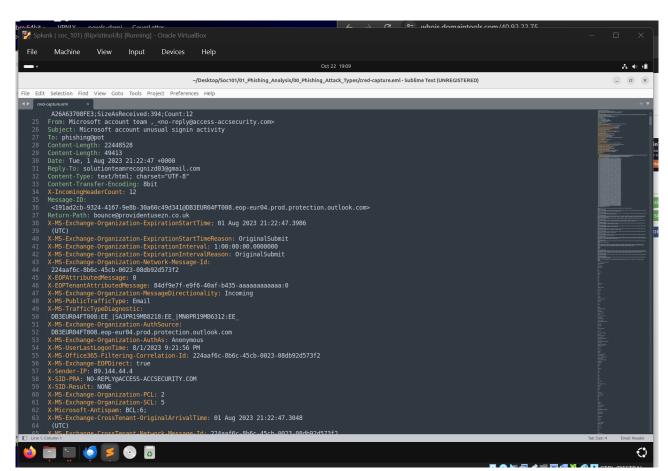
# **Initial Observations**

The "From" address attempted to mimic Microsoft but used a domain with no affiliation to the company, while the "Return-Path" pointed to another unrelated domain. By carefully reviewing the headers, I determined the sender's actual IP was associated with a German hosting provider—far removed from any Microsoft network. The message content aimed to trigger alarm by describing a sign-in from Russia, including technical specifics like the IP address, device, and

browser, but these details didn't align with the technical evidence found in the email headers.







## **Link Inspection**

A crucial moment in the analysis involved examining the "View Activity" button. While the visible link displayed a genuine Microsoft web address, the actual URL redirected users to a site hosted on Vercel ("mc4-two.vercel.app"). This domain is not managed by Microsoft and is known to be used in other phishing campaigns, leveraging trusted cloud hosting to evade some defenses.

#### **Indicators of Phishing**

The following key findings confirm the email's malicious nature:

- The sender domain ("From") and the "Return-Path" are both unaffiliated with Microsoft.
- The sender IP belongs to an independent hosting provider, not Microsoft infrastructure.
- The action link, despite appearing safe, leads to a phishing site rather than an official Microsoft property.
- The message employs urgency, technical jargon, and fear to increase the chance of user interaction.

#### Conclusion

This case demonstrates why technical professionals must look beyond the visible content and thoroughly analyze the metadata and infrastructure behind emails. By inspecting headers, cross-referencing sender information, and verifying link destinations, it's possible to reliably uncover even well-disguised phishing attempts. Ultimately, this investigation highlights the importance of layered email analysis in defending against credential theft campaigns.