

#### Blue Team Level 1 Certification (Standard)

- 8 Topics | 1 Quiz
- PA6) Taking Defensive Actions
  - 12 Topics | 1 Ouiz
  - Section Introduction, Defensive
  - Preventative Measures: Marking
  - O Preventative Measures: Email Security
  - O Preventative Measures: Spam Filter
  - O Preventative Measures: Attachment Filtering
  - O Preventative Measures: Attachment Sandboxing
  - O Preventative Measures: Security Awareness Training
  - O Reactive Measures: Immediate Response Process
  - O Reactive Measures: Blocking Email-**Based Artifacts**
  - O Reactive Measures: Blocking Web-Based
  - O Reactive Measures: Blocking File-Based
  - O Reactive Measures: Informing Threat Intelligence Team
  - Activity) End of Section Review,
- PA7) Report Writing
  - 7 Topics | 1 Quiz
- PA8) Phishing Response Challenge
  - 3 Topics | 1 Quiz

#### THREAT INTELLIGENCE DOMAIN

- TI1) Introduction to Threat Intelligence
  - 7 Topics
- TI2) Threat Actors & APTs
- 6 Topics 2 Ouizzes
- TI3) Operational Threat Intelligence
  - 7 Topics | 1 Quiz
- TI4) Tactical Threat Intelligence
  - 7 Topics | 1 Quiz
- TI5) Strategic Threat Intelligence
  - 5 Topics | 1 Quiz
- TI6) Malware and Global Campaigns
  - 6 Topics | 1 Quiz

#### **DIGITAL FORENSICS DOMAIN**

- O DF1) Introduction to Digital Forensics
  - 5 Topics
- O DF2) Forensics Fundamentals
- 10 Topics | 5 Ouizzes
- DF3) Digital Evidence Collection
- 8 Topics | 1 Quiz
- DF4) Windows Investigations
- 3 Topics | 3 Quizzes

# **Reactive Measures: Blocking Email-Based Artifacts**

Blue Team Level 1 Certification (Standard) > PA6) Taking Defensive Actions > Reactive Measure... IN PROGRESS

## **Phishing Analysis BLOCKING EMAIL ARTIFACTS**



Once we have collected and analyzed email artifacts, we are able to take defensive measures in order to block  $incoming \ and \ outgoing \ emails \ that \ feature \ these \ artifacts. \ Just \ to \ recap, the \ email \ artifacts \ that \ are \ important \ to \ us$ 

- Email Sender (mailbox@domain)
- Sender Domain (@domain)
- Sending Server IP
- Subject Line

## **EMAIL SENDER**

If a large volume of malicious emails are being sent from the same sender, we would definitely want to block it on a large volume of malicious emails are being sent from the same sender.the email gateway, preventing more emails coming into the domain and landing in employee mailboxes. This is the primary block we will take with phishing attacks.

On the email gateway, we would typically block incoming emails from the specified sender, however, we could make  $this \, block \, bi-directional, and \, prevent \, emails \, from \, inside \, being \, sent \, to \, (recipient) \, the \, malicious \, sender \, - \, this \, would \, in the inside \, being \, sent \, to \, (recipient) \, the \, malicious \, sender \, - \, this \, would \, in the inside \, being \, sent \, to \, (recipient) \, the \, malicious \, sender \, - \, this \, would \, in the inside \, being \, sent \, to \, (recipient) \, the \, malicious \, sender \, - \, this \, would \, in the inside \, being \, sent \, to \, (recipient) \, the \, malicious \, sender \, - \, this \, would \, in the inside \, being \, sent \, to \, (recipient) \, the \, malicious \, sender \, - \, this \, would \, in the inside \, being \, sent \, to \, (recipient) \, the \, malicious \, sender \, - \, this \, would \, in the inside \, being \, sent \, to \, (recipient) \, the \, malicious \, sender \, - \, this \, would \, in the inside \, being \, sent \, to \, (recipient) \, the \, malicious \, sender \, - \, this \, would \, in the inside \, being \, sent \, to \, (recipient) \, the \, malicious \, sender \, - \, this \, would \, in the inside \, being \, sent \, to \, (recipient) \, the \, malicious \, sender \, - \, this \, would \, in the inside \, being \, sent \, the \, the \, thin \, thin \, the \, thin \, the$ stop emails where an employee is trying to reply to the malicious email.

# **SENDER DOMAIN**

The step-up from blocking the sending address (mailbox@domain) is to block the entire sending domain. When  $receiving\ emails\ from\ @Outlook\ or\ @Gmail, it's\ obviously\ not\ feasible\ to\ block\ these\ entire\ domains, as\ there\ is\ a$ large potential for blocking legitimate emails (such as employees contacting Payroll from their personal addresses,  $HR\ reaching\ out\ to\ new\ employees\ via\ their\ personal\ addresses,\ etc).\ This\ is\ typically\ only\ done\ when\ the\ sending\ addresses,\ etc)$ domain is purely malicious or is using a large number of mailboxes to send malicious emails.

## **REPLY TO ADDRESS**

If a phishing email is trying to get recipients to send a response, such as impersonating a fellow employee and trying  $to \ receive \ information \ or \ files, and \ if \ the \ reply-to \ address \ is \ different \ than \ the \ sending \ address, it \ may \ be$ appropriate to block the reply-to address. Doing so means that if any employees reply to the email the message will be blocked by the email gateway and never leave the organization.

### SENDING SERVER IP

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4 Topics   2 Quizzes
O DF6) Volatility
3 Topics   1 Quiz
O DF7) Autopsy
4 Topics   1 Quiz
SECURITY INFORMATION AND EVENT
MANAGEMENT DOMAIN
SI1) Introduction to SIEM
7 Topics   1 Quiz
SI2) Logging
6 Topics   2 Quizzes
SI3) Aggregation
2 Topics   1 Quiz
SI4) Correlation
6 Topics   1 Quiz
6 Topics   1 Quiz     SI5) Using Splunk
SI5) Using Splunk
SI5) Using Splunk  5 Topics 2 Quizzes

IR2) Preparation Phase

This is a very serious block, and is not conducted unless it is absolutely necessary. This will drop any emails coming from the specified IP. Whilst similar to a domain block, a domain may use multiple sending servers, so this would be less effective, and is tailored towards rogue IPs that have been compromised or setup to send malicious emails.

# **SUBJECT LINE**

Phishing attacks will typically use one subject line, otherwise, the attackers need to keep modifying it, creating more work (and likely more cost if they're using paid-for email services). Whilst multiple sending addresses can be delivering the same phishing email, if they all share the same subject line we can easily catch them all, instead of blocking multiple senders, by dropping any emails with the subject line in question.

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