

# CYBER FORENSICS

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## Experiment 5

### Phishing Email analysis with [www.tryhackme.com](http://www.tryhackme.com)

#### Introduction

Phishing is a prevalent cyber threat where attackers use fraudulent emails to deceive recipients into revealing sensitive information or installing malicious software. Analyzing phishing emails is a critical skill in email forensics, enabling cybersecurity professionals to detect, investigate, and prevent phishing attacks. This experiment focuses on using the TryHackMe platform to analyze phishing emails, identify indicators of compromise (IOCs), and gain insights into the methods attackers employ.

#### Aim:

To perform email forensics. (<https://tryhackme.com/r/room/phishingemails2rytmuv>)

#### Screenshot:

#### Question 1:

The screenshot displays the 'Phishing Emails in Action' room on the TryHackMe platform. The room title is 'Phishing Emails in Action' with a subtitle 'Learn the different indicators of phishing attempts by examining actual phishing emails.' It is marked as 'Easy' and takes '30 min'. The interface includes buttons for 'Share your achievement', 'Start AttackBox', 'Help', 'Save Room', a like count of '1092', and an 'Options' menu. A progress bar at the bottom indicates 'Room completed (100%)'. The main content area shows 'Task 1 Introduction' with text explaining the room's purpose: to analyze actual phishing email samples. It includes a 'Warning' about the real-world nature of the samples and a section for 'Answer the questions below' with a text input field containing 'No answer needed' and a 'Correct Answer' button.

TryHackMe | Phishing Emails in

tryhackme.com/r/room/phishingemails2rytmuv

Gmail

YouTube

Maps

Adobe Acrobat

Room progress (11%)

Now that we covered the basics concerning emails in [Phishing Emails 1](#), let's dive right into actual phishing email samples.

Each email sample showcased in this room will demonstrate different tactics used to make the phishing emails look legitimate. The more convincing the phishing email appears, the higher the chances the recipient will click on a malicious link, download and execute the malicious file, or even send the prince of some country a wire transfer.

**Warning:** The samples throughout this room contain information from actual spam and/or phishing emails. Proceed with caution if you attempt to interact with any IP, domain, attachment, etc.

Answer the questions below

Read the above.

No answer needed

✓ Correct Answer

Task 2

Cancel your PayPal order

Task 3

Track your package

Task 4

Select your email provider to view document

Applications

Places

Sat 4 Jan, 14:25

AttackBox IP: 10.10.66.52

root's Home

Terminal

Tools

Additional Tools

Woop woop! Your answer is correct

THM AttackBox

57min 20s


## Question 2:

https://is.gd/6oCJ4m

Expand

Room completed (100%)

Screenshot of the distant page behind your short URL



Strange. This link redirects to google.com.

**Note:** Tools to expand shortened URLs will be discussed in the [Phishing Emails 3](#) room.

Answer the questions below

What phrase does the gibberish sender email start with?

noreply

✓ Correct Answer

### Question 3:

Room progress ( 33% )

```
</div>
<div>

<map name="egm"><area shape="rect" coords="0, 0, 3500, 1400" href="http://devret.xyz/4837fx1125493915080h02202gu1209je15080u" />
</map>
<div>

<map name="hunsab">
<area shape="rect" coords="0, 0, 3500, 1400" href="http://devret.xyz/4837jx1125493915080h02202gu1209je15080u" />
</map>
</div>
</div>
<div style="width:100%;height:100%;display:none;" src="http://devret.xyz/4837aq112549390+6880+22021p1300+contact@egimgpro.c5ub"/>
</html>
```

Here we see an image file, and it's explicitly called **Tracking.png**. These trackers send information back to the spammer's server.

There are many reasons for spammers to embed tracking pixels (very small images) into their spam emails. To read more about this concept, refer to this post on The Verge [here](#).

Now we can understand why Yahoo automatically blocked the images in this email. Many email providers do the same.

Back to the hyperlink, the link is pointing to a shady-looking domain. The only distribution center this domain can be associated with is malware, but further analysis is the only way to confirm that definitely.

Answer the questions below

What is the root domain for each URL? Defang the URL.

devret[.]xyz

Download CyberChef

Operations

defang url

Defang URL

Favourites

Data format

Encryption / Encoding

Public Key

Arithmetic / Logic

Networking

Language

Utils

Date / Time

Extractors

Compression

Hashing

Code tidy

Recipe

Defang URL

Escape dots

Escape http

Escape ://

Process

Valid domains and full ...

Input

devret . xyz

Output

devret[.]xyz

STEP

BAKE!

Auto Bake

### Question 4:

Room progress ( 44% )

Woop woop! Your answer is correct

In this sample, we can tell that fake credentials were entered, but even if the victim would have entered valid credentials, the error message would be the same. This scenario happens because the victim is not really authenticating to an email provider. Instead, the credentials that were entered now reside on the criminal's server. The criminal's objective to harvest credentials has been met.

Lastly, notice more grammatical errors. All this work they put into this, you would think they would run a spell check.

This email sample was obtained from Any Run. If you wish to interact with the email and see the full analysis, refer to the link below.

- Analysis: <https://app.any.run/tasks/12dcb54-be0f-4250-b6c1-94d548816e5c/#>

Answer the questions below

This email sample used the names of a few major companies, their products, and logos such as OneDrive and Adobe. What other company name was used in this phishing email?

Citrix

Correct Answer

Hint

Task 5 Please update your payment details

Task 6 Your recent purchase

## Question 5:

TryHackMe | Phishing Emails in x +

tryhackme.com/r/room/phishingemails2rytmuv

Room progress (55%)

If you did not ask to reset your password you may want to review your [recent account access](#) for any unusual activity.

We're here to help if you need it. Visit the [Help Center](#) for more info or [contact us](#).

...Your friends at Netflix

The attachment contains an embedded link titled 'Update Payment Account'.

We'll look at this email attachment in closer detail in the upcoming [Phishing Emails 3](#) room.

Answer the questions below

What should users do if they receive a suspicious email or text message claiming to be from Netflix?

✓ Correct Answer    ? Hint

TryHackMe | Phishing Emails in x +

consumeraffairs.com/news/police-warn-of-new-netflix-email-phishing-scam-121718.html

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Here's an example of an email phishing attempt that I received. (biggest clue is that I don't have a Netflix account), [a police officer in Solon, Ohio wrote](#).

"Criminals want you to click the links, so that you voluntarily give your personal identifying information away. It is very successful. Don't put your guard down."


"Contact the source of the email by another method that you trust to make sure your accounts are maintained. Don't click the links. The links could also be a way to install malware on your computer," the police department warned.

## Beware of links

On its website, Netflix advises users never to enter their login or financial details after following a link in an email or text message.

"If you're unsure if you're visiting our legitimate Netflix website, type [www.netflix.com](#) directly into your web browser," Netflix said.

Users who receive a suspicious email or text message claiming to be from Netflix are advised to [forward the message to phishing@netflix.com](#) for further review by the company.

 **Sarah D. Young**  
Reporter and Editor

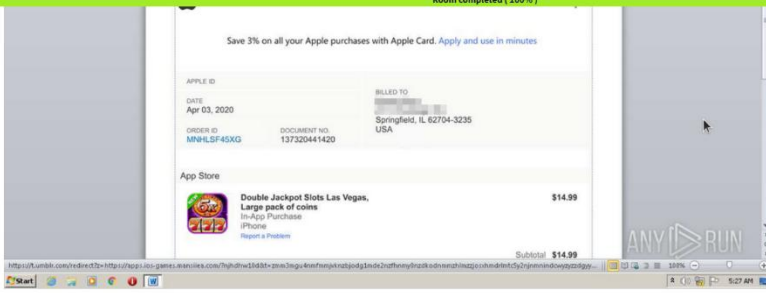
Sarah has been writing and editing for ConsumerAffairs since 2015. Her areas of interest include technology and cybersecurity news, retail news, and home and living news. She is a graduate of Virginia Commonwealth University, an interior design enthusiast, and a mother of two.

[Read Full Bio](#)

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## Question 6:

Room completed (100%)



The above image shows what is contained within the attachment. You can see that the file contains a large image to resemble an App Store receipt.

Notice the link contains certain keywords related to Apple: **apps** and **ios**.

Answer the questions below

What does BCC mean?

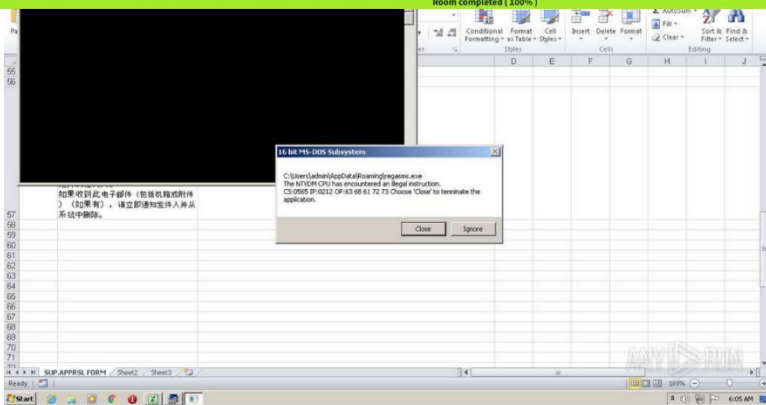
Blind Carbon Copy ✓ Correct Answer

What technique was used to persuade the victim to not ignore the email and act swiftly?

Urgency ✓ Correct Answer

## Question 7:

Room completed (100%)



We'll look at this email attachment in closer detail in the upcoming Phishing Emails 3 room.

Answer the questions below

What is the name of the executable that the Excel attachment attempts to run?

regasms.exe ✓ Correct Answer

## Question 8:

Room completed (100%)

Task 7 ✓ DHL Express Courier Shipping notice

Task 8 ✓ Conclusion

In this room, we looked at various phishing samples.

Some of the samples shared similar techniques whereas, others introduced a new tactic for you to see and learn from.

Understanding how to detect phishing emails takes awareness training.

Visit the resources below to acquaint yourself with other signs to look out for in phishing emails.

Additional Resources:

- <https://www.knowbe4.com/phishing>
- <https://www.itgovernance.co.uk/blog/5-ways-to-detect-a-phishing-email>
- <https://cheapsslsecurity.com/blog/10-phishing-email-examples-you-need-to-see/>
- <https://phishingquiz.withgoogle.com>

The next room in this module: [Phishing Emails 3](#)

Answer the questions below

Read the above.

No answer needed

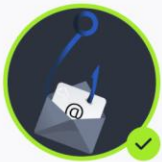
✓ Correct Answer

TryHackMe | Phishing Emails in

tryhackme.com/r/room/phishingemails2rytmuv

Gmail YouTube Maps Adobe Acrobat

All Bookmarks



**Congratulations on completing Phishing Emails in Action !!! 🎉**

Points earned 🔥 56	Completed tasks ✅ 8	Room type 👤 Walkthrough	Difficulty 📶 Easy	Streak 🔥 2
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Next

## RESULT:

The experiment successfully demonstrated the process of phishing email analysis. Key findings included identifying malicious attachments, detecting fake sender domains, and analyzing phishing URLs. Completing the TryHackMe tasks enhanced practical skills in email forensics.