



# Define phishing attacks

Phishing attacks are a popular attack vector for cyber criminals because they are simple and effective. A well-crafted phishing email is much easier to develop than a zero-day exploit yet can have the same negative impact. These attacks are designed to prey upon human nature. People want to be helpful, obey authority, and are more likely to be less careful when in a hurry or experiencing stress.

#### Recognizing Scam

let's watch a short video how to recognise a Scam

https://www.cyber.gov.au/learn-basics/explore-basics/recognise-and-report-scams

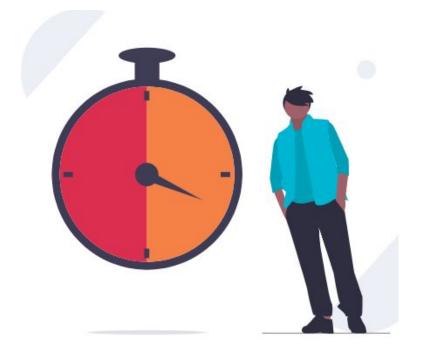
## Common things scammers do to trick you



Authority: Is the message claiming to be from someone official?

Like your bank, a government department, a utility company, your doctor or a solicitor. Criminals pretend to be important people or organisations to trick you into doing what they want.

E.g.: I am calling you from ATO, and you have not paid your tax. pay it now otherwise, police will come to arrest you.



#### Urgency

Are you told you have a limited time to respond?

For example, 'within 24 hours' or 'immediately'. Criminals often threaten you with fines or other negative consequences.

- Often, they'll claim you have to act now to claim a reward or avoid a penalty.
- ► E.g.: Act now to get 70% discount.



#### **Emotion**

- Does the message make you panic, fearful, hopeful or curious?
- Scammers use threatening language, make false claims of support, or tease you into wanting to find out more.
- Threatening police action, threatening to withhold money or lock your bank accounts are common.



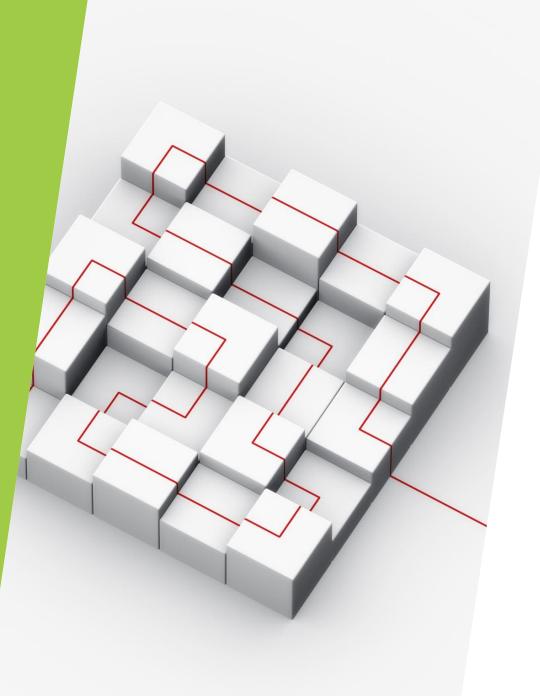
#### Scarcity

- ► Is the message offering something that seems too good to be true?
- Like concert tickets, money or a cure for medical conditions? Fear of missing out on a good deal or opportunity can make you respond quickly.
- E.g.: free Taylor Swift concert tickets



#### **Current Events**

- ► Are you expecting to see a message like this?
- ► To make their scam seem more real, criminals can exploit current news stories and events.
- ► For example, some scammers pretend to be from the DHL office to make their scam seem more relevant, and you received a text message, your delivery is on the way.

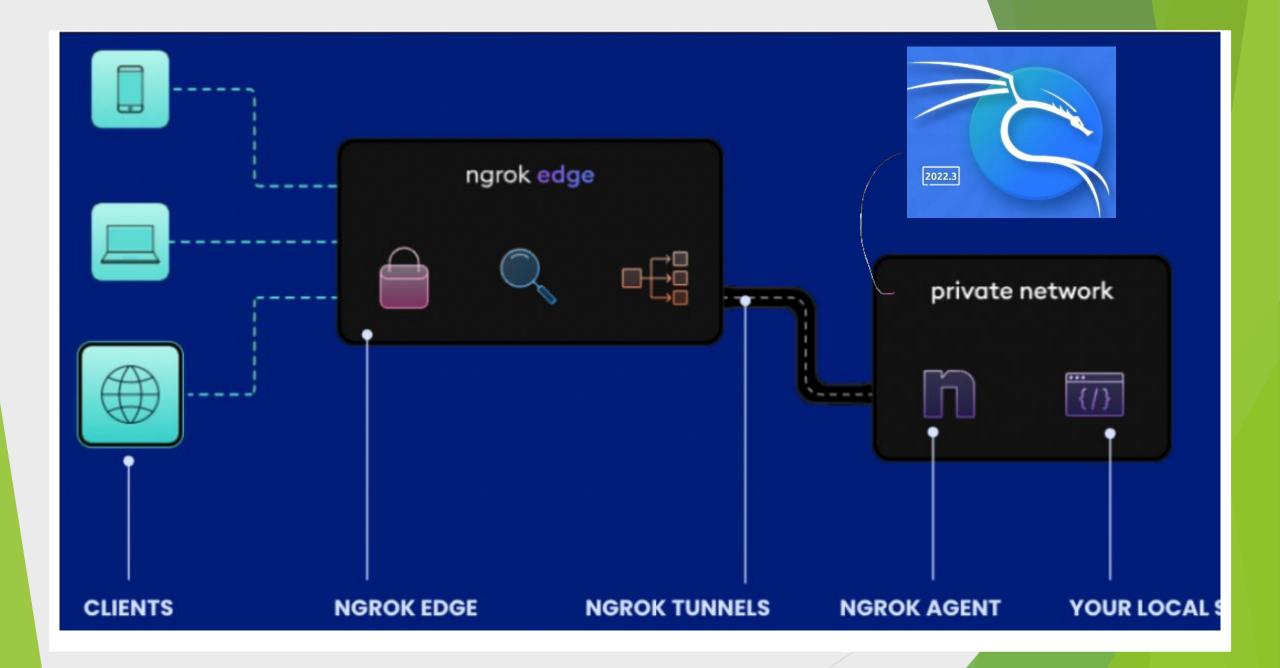


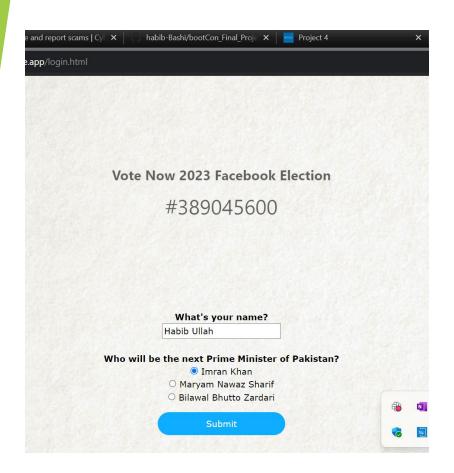
#### NETWORK DIAGRAM BOOTCON PROJECT

TOOLS USED:

Ngrok, Apache Web Server and VS CODE

Programming Language: PHP

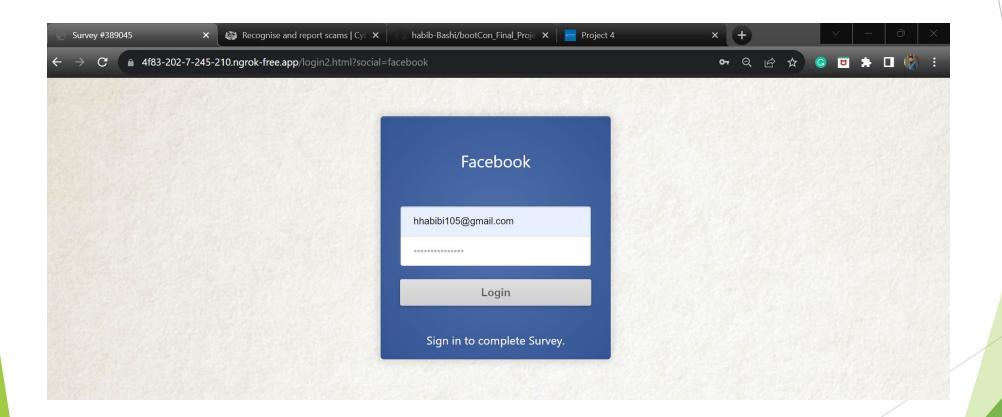




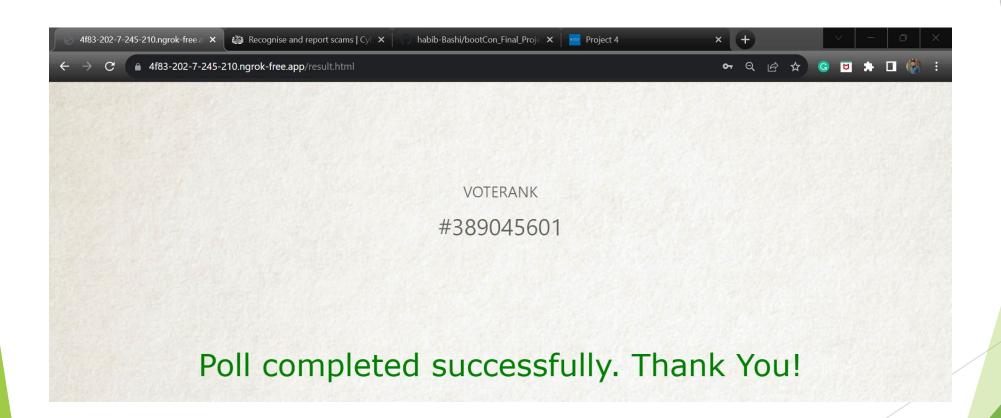
### Let's do some Demo

Login Page

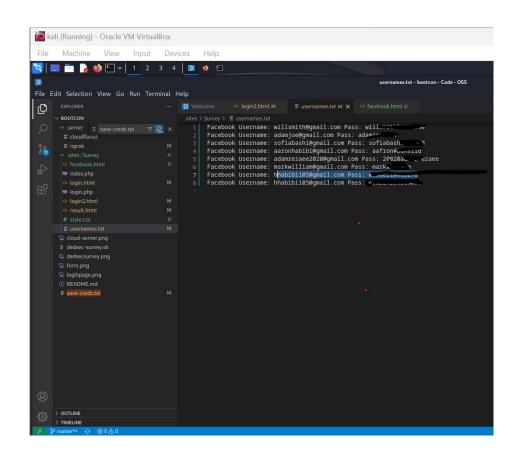
#### Face Book Login



#### Result Page



#### **VS** Code



#### **Project Files**

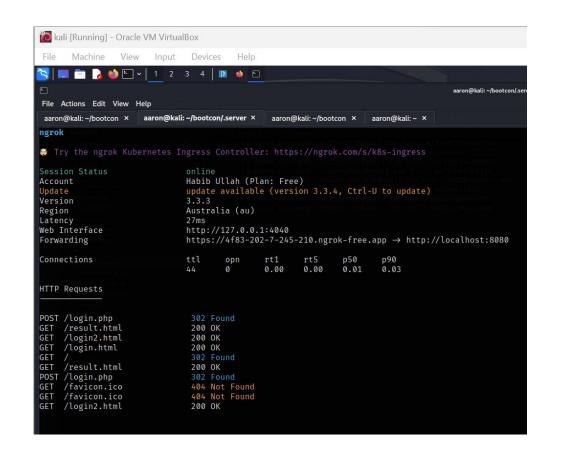
```
(aaron@ kali)-[~/bootcon]
$ ls -la
total 388
                           4096 Aug 20 23:36 .
drwxr-xr-x 5 aaron aaron
                           4096 Aug 21 16:38 ...
drwx---- 29 aaron aaron
           1 aaron aaron
                           19502 Aug 20 20:51 cloud-server.png
           1 aaron aaron 10913 Aug 20 20:51 dedsecsurvey.png
-rwxr-xr-x 1 aaron aaron
                           8973 Aug 20 20:51 dedsec-survey.sh
                          22970 Aug 20 20:51 form.png
-rw-r--r-- 1 aaron aaron
                           4096 Aug 21 15:59 .git
drwxr-xr-x 8 aaron aaron
           1 aaron aaron 296791 Aug 20 20:51 loginpage.png
                           1306 Aug 20 20:51 README.md
            1 aaron aaron
                            726 Aug 21 16:30 save-creds.txt
           1 aaron aaron
                           4096 Aug 20 23:36 .server
drwxr-xr-x 2 aaron aaron
drwxr-xr-x 3 aaron aaron
                            4096 Aug 20 20:51 .sites
___(aaron⊗ kali)-[~/bootcon]
```

#### User Credentials Captured Runtime

```
Waiting for Next Login Info, Ctrl + C to exit.

[*] USERNAME AND PASSWORD [*]
Facebook Username: willsmith@gmail.com Pass: willsmith
Facebook Username: adamjoe@gmail.com Pass: adamjo
Facebook Username: sofiabashi@gmail.com Pass: sofiabash
Facebook Username: aaronhabibi@gmail.com Pass: / n#bahsiid
Facebook Username: adamrezaee2020@gmail.com Pass: 20020adm
Facebook Username: markwilliam@gmail.com Pass: markwill
Facebook Username: hhabibi105@gmail.com Pass
Facebook Username: hhabibi105@gmail.com Pass:
```

#### Ngrok Agent Session Info



#### Mitigations Strategies

**User Education and Training**: Phishing awareness training is paramount because human error is often the weakest link in cybersecurity. Educate and empower your employees to recognize and respond to phishing attempts effectively.

**Email Filtering and Authentication:** Implement robust email filtering to block known phishing emails and attachments. Additionally, enforce email authentication protocols (DMARC, SPF, and DKIM) to prevent email spoofing.

Multi-Factor Authentication (MFA): Require MFA for accessing critical accounts and systems. MFA adds an additional layer of security, making it significantly harder for attackers to gain unauthorized access.

These three measures address the human factor (user training), email-based attack vectors (email filtering and authentication), and unauthorized access (MFA), which are some of the most common entry points for phishing attacks. However, a comprehensive security strategy should ideally incorporate multiple layers of defense for robust protection.

## Final Part of my Presentation (Video File)

Please find a video (bootCon.mp4) file in a shared directory called Habib\_Ullah\_BootCon\_Presentation.