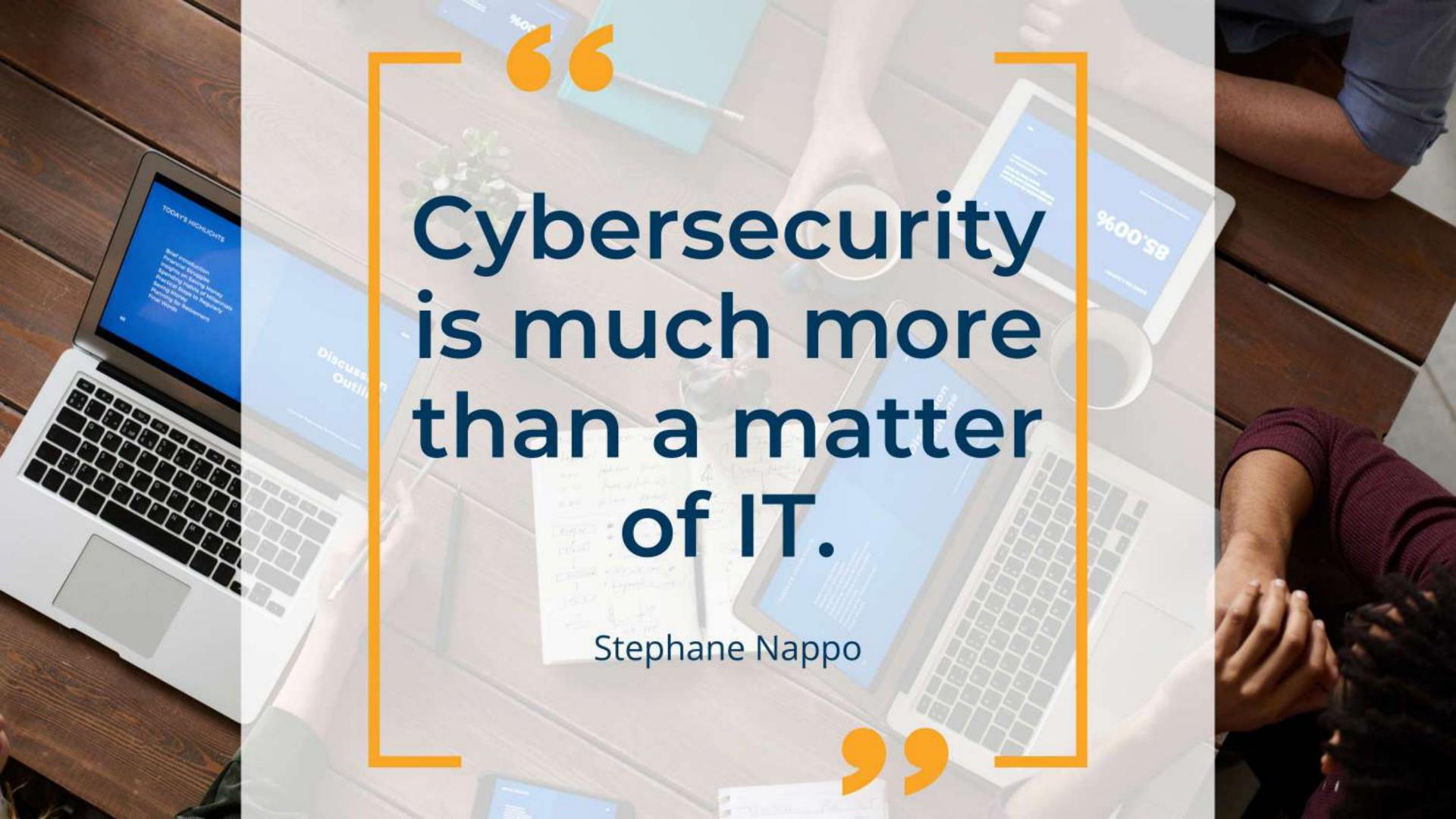






Free Dark Web Scan for Each Attending Business

Download Presentation Slides in PDF format





What You'll Learn:

- 1. HOW CYBERSECURITY
 TECHNOLOGY CAN PROTECT
 YOU AND YOUR BUSINESS
- 2. THE TACTICS CYBERCRIMINALS
 USE TO STEAL YOUR DATA
- 3. BEST PRACTICES TO KEEP YOUR BUSINESS SAFE









About CTTS

For 21 years CTTS has been providing IT Services and Support to Small Businesses and Non-Profits throughout Central Texas.



512-388-5559



CTTSonline.com



557 S Interstate 35, Suite #201 Georgetown, TX 78626



Objective

To Protect your business with cybersecurity awareness and a straightforward cybersecurity strategy.

Bottom Line - Your business is meaningful - it deserves to be protected.



The Challenge

Businesses don't protect their information with the full respect it deserves.

Small businesses with limited resources aren't implementing the security they need, thinking they are too small or insignificant for cyberattacks.

Business leaders are left with either a false sense of security or in a constant state of fear of the looming, imminent threats of a cyber attack.

Your business is important to your family, your employees, your clients, and your communities, and they deserve to be treated and protected as such.



What's at Stake?

Your entire business could be compromised in the event of a cyber attack.

Personal and financial information of employees and clients could be made public or held for ransom.

The reputation of your business could diminish both within the eyes of your employees and the community.





Cybersecurity Statistics

46%

Percentage of global cyberattacks being directed toward Americans.

58%

Percentage of cyberattacks from nation-states originated in Russia.

60%

Percentage of small companies that go out of business within six months of falling victim to a data breach or cyber attack.



Most Common Attacks

1. PHISHING / SPOOFING / SOCIAL ENGINEERING





Most Common Attacks

- 1. PHISHING / SPOOFING / SOCIAL ENGINEERING
- 2. COMPROMISED / STOLEN
 DEVICES





Most Common Attacks

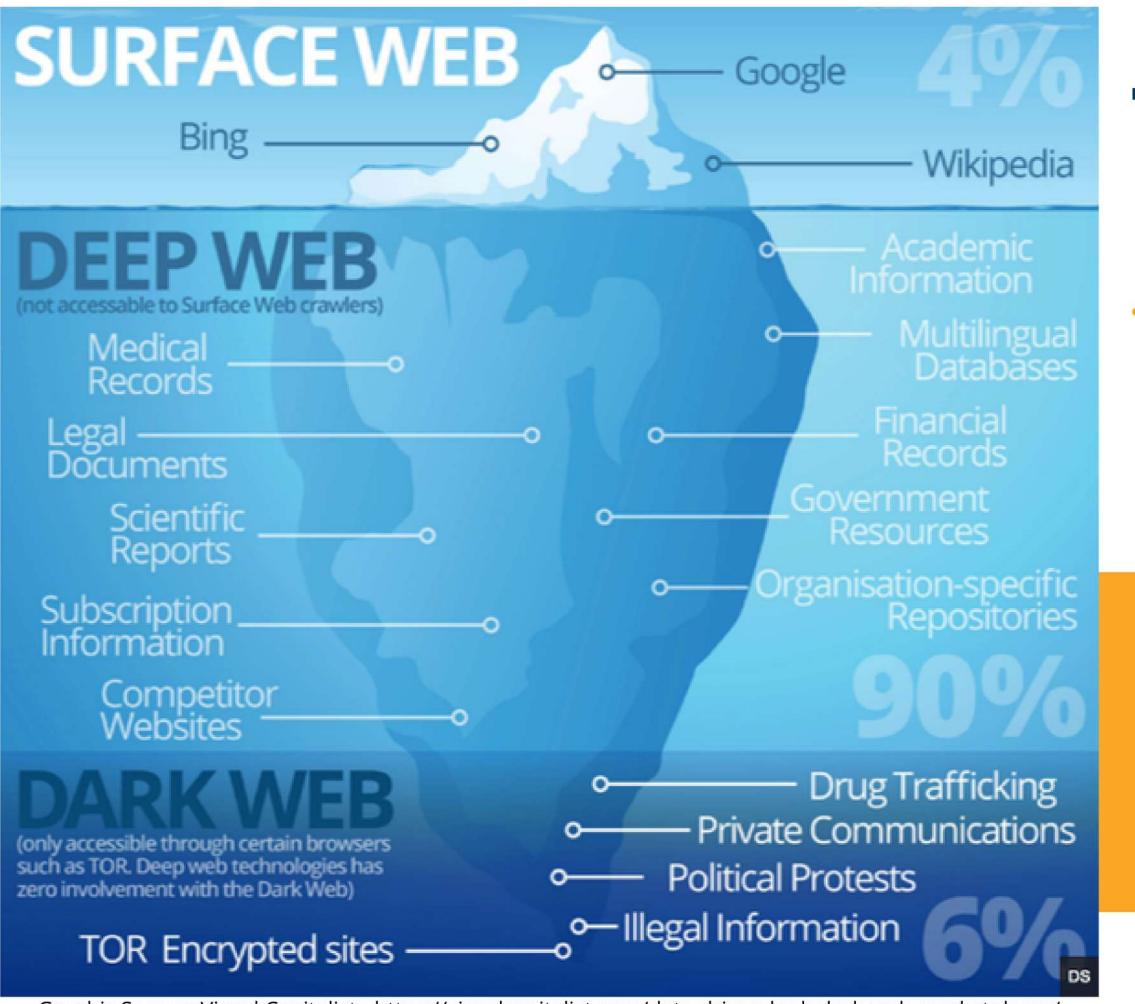
- 1. PHISHING / SPOOFING / SOCIAL ENGINEERING
- 2. COMPROMISED / STOLEN
 DEVICES
- 3. CREDENTIAL THEFT /
 IDENTITY THEFT



What is The Dark Web?

A hidden universe contained within the "deep web," a sub layer of the Internet that is hidden from conventional search engines.



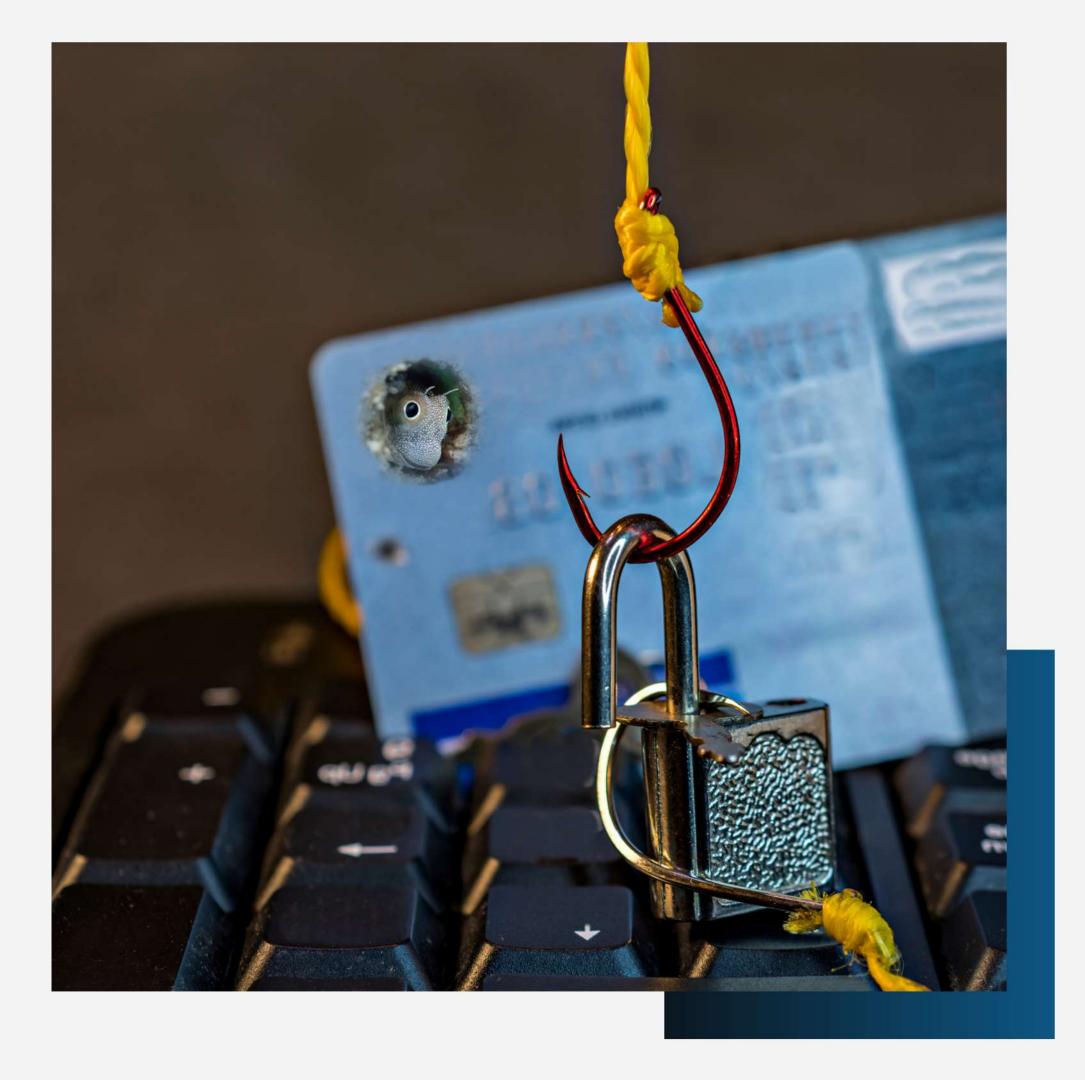


The Dark Web

Search engines like
Google and Bing only
search 4% of the entire
Internet. The other 96%
of the web consists of
databases, private
academic and
government networks,
and the dark web.

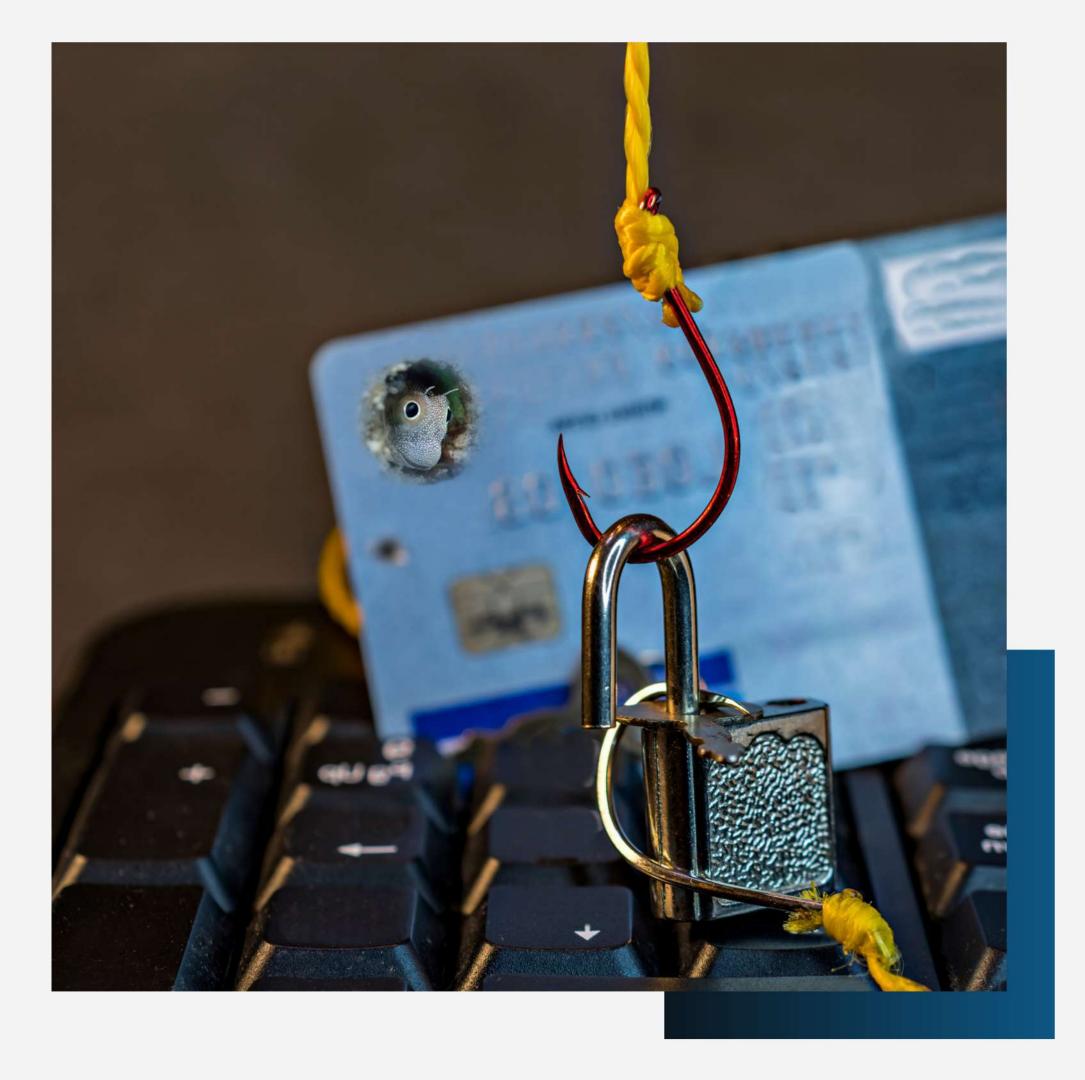
Graphic Source: Visual Capitalist - https://visualcapitalist.com/data-driven-look-dark-web-marketplaces/





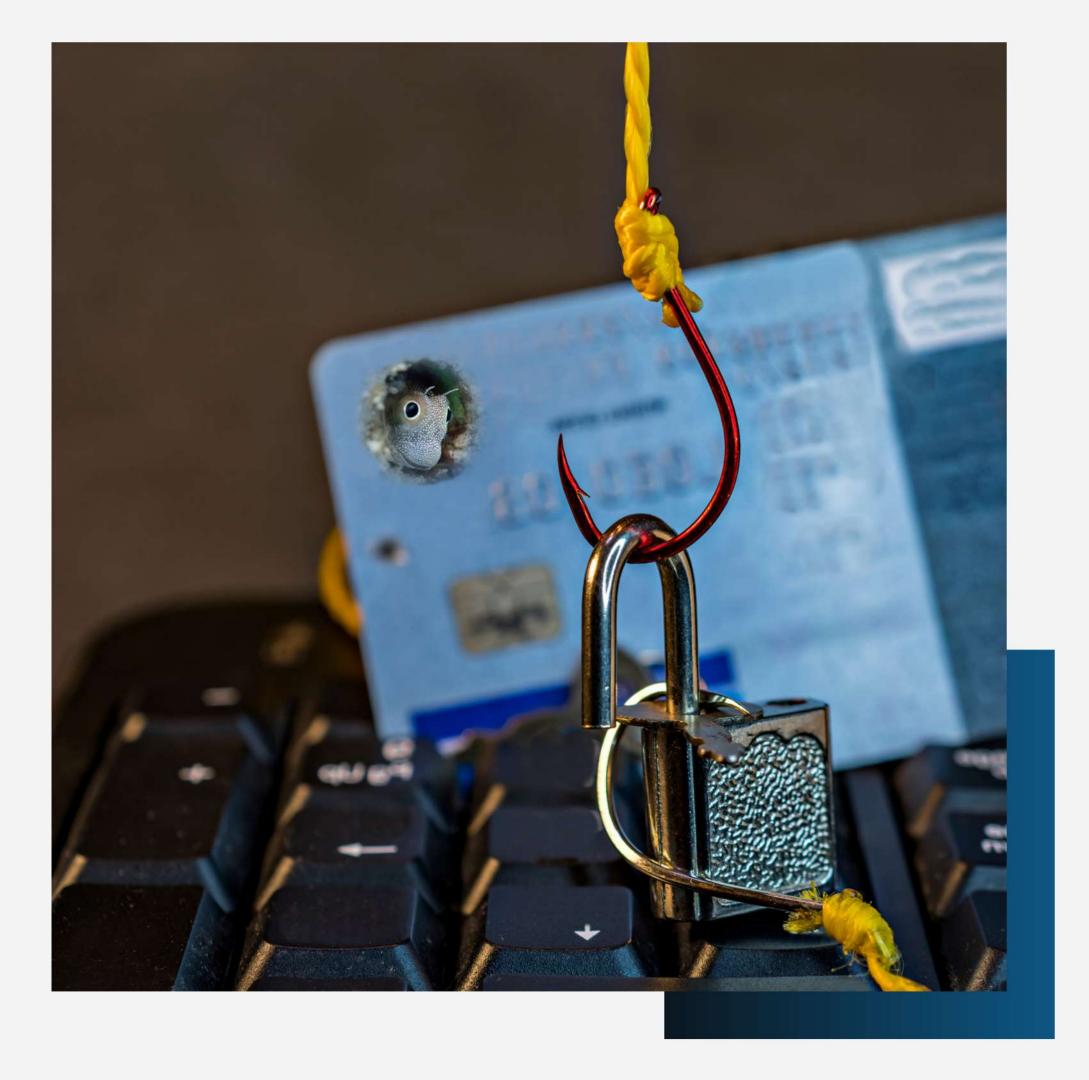
The Biggest Culprits

- Email Compromise
- Social Engineering
- Artificial Intelligence



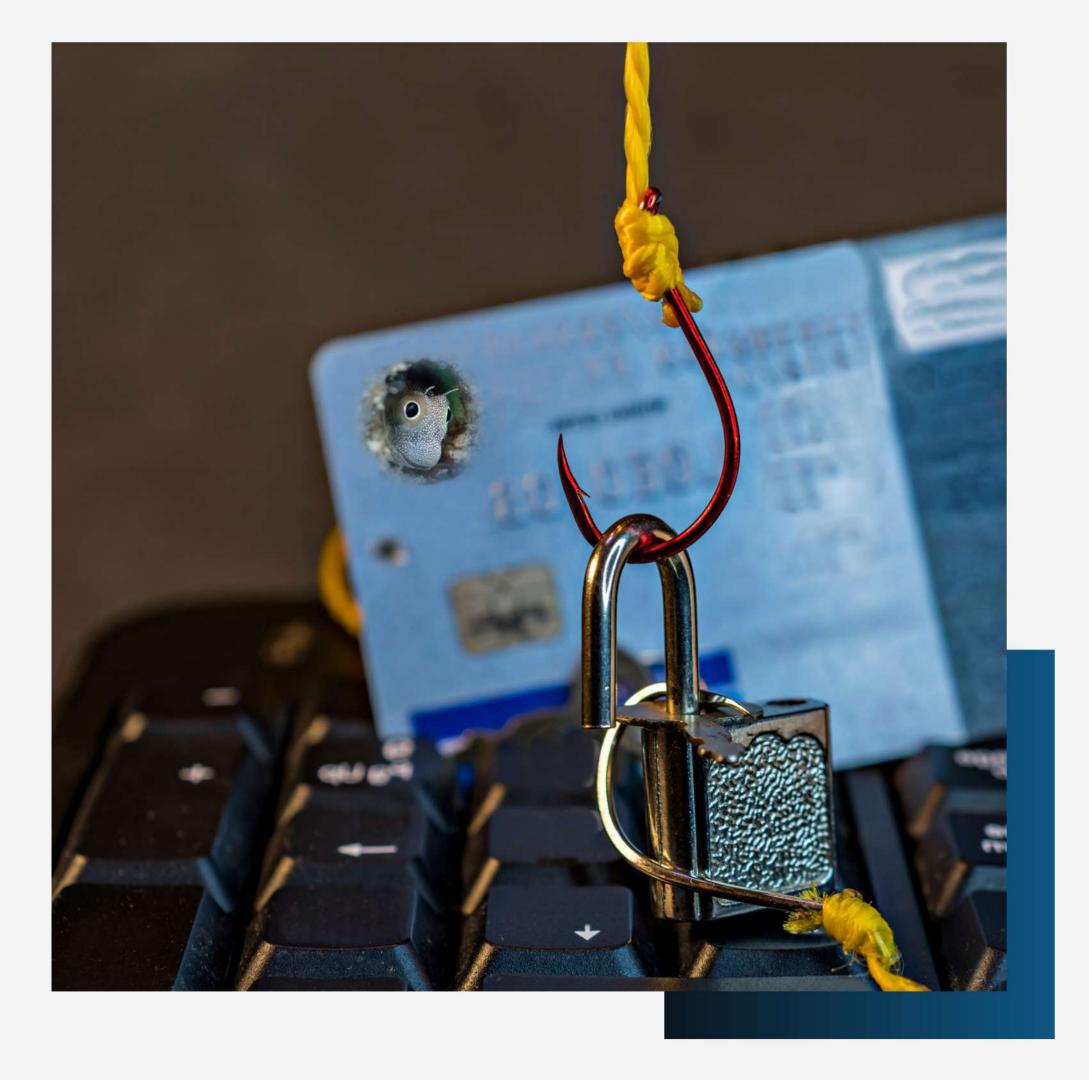
The Goal Behind Them

- Financial Theft
- Data Theft



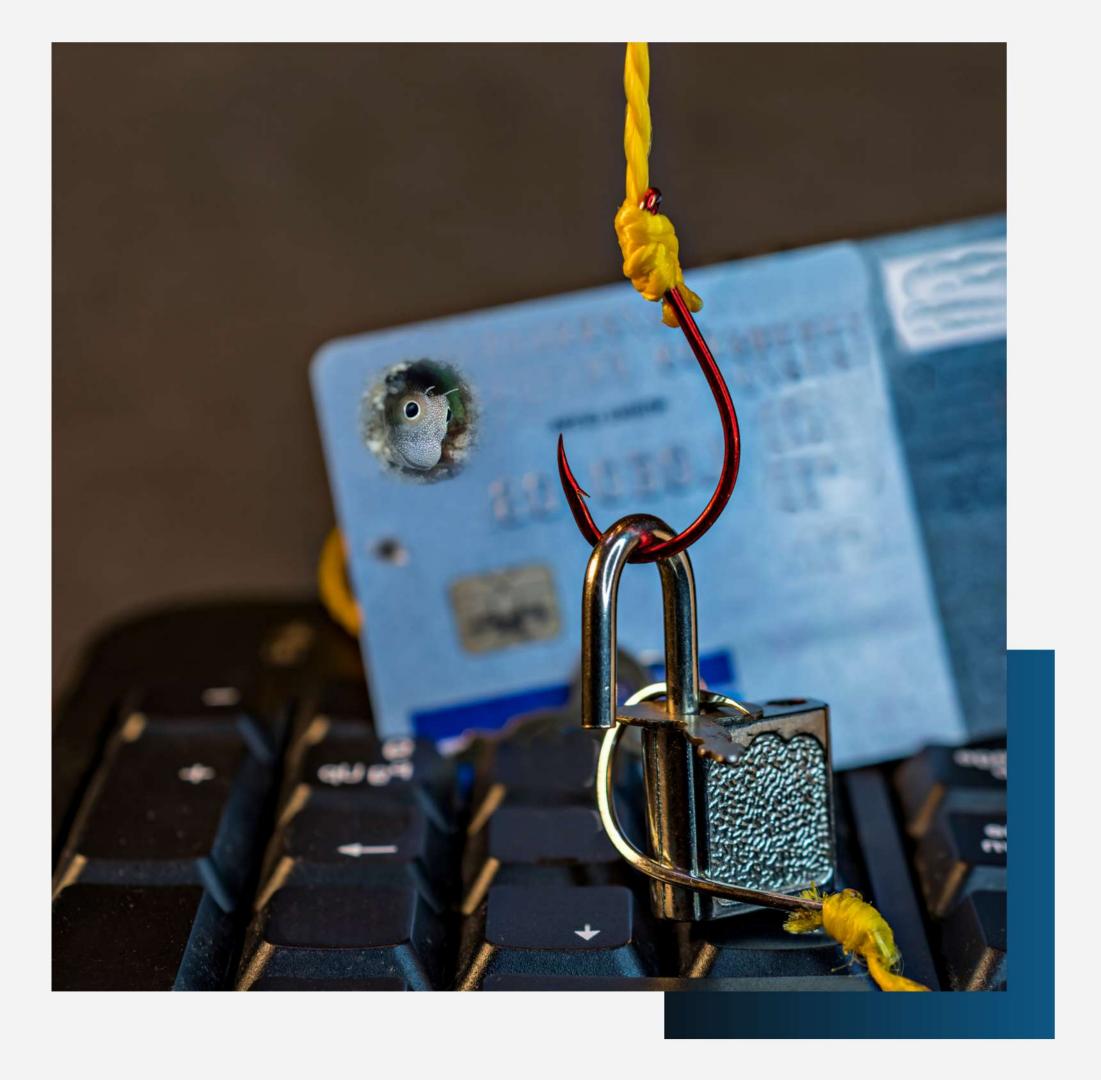
Types of Phishing

- Spear Phishing highly targeted emails to capture logins and cc info
- Whaling targets high-level executives to steal information or send money
- Smishing uses text messages to steal information or send money



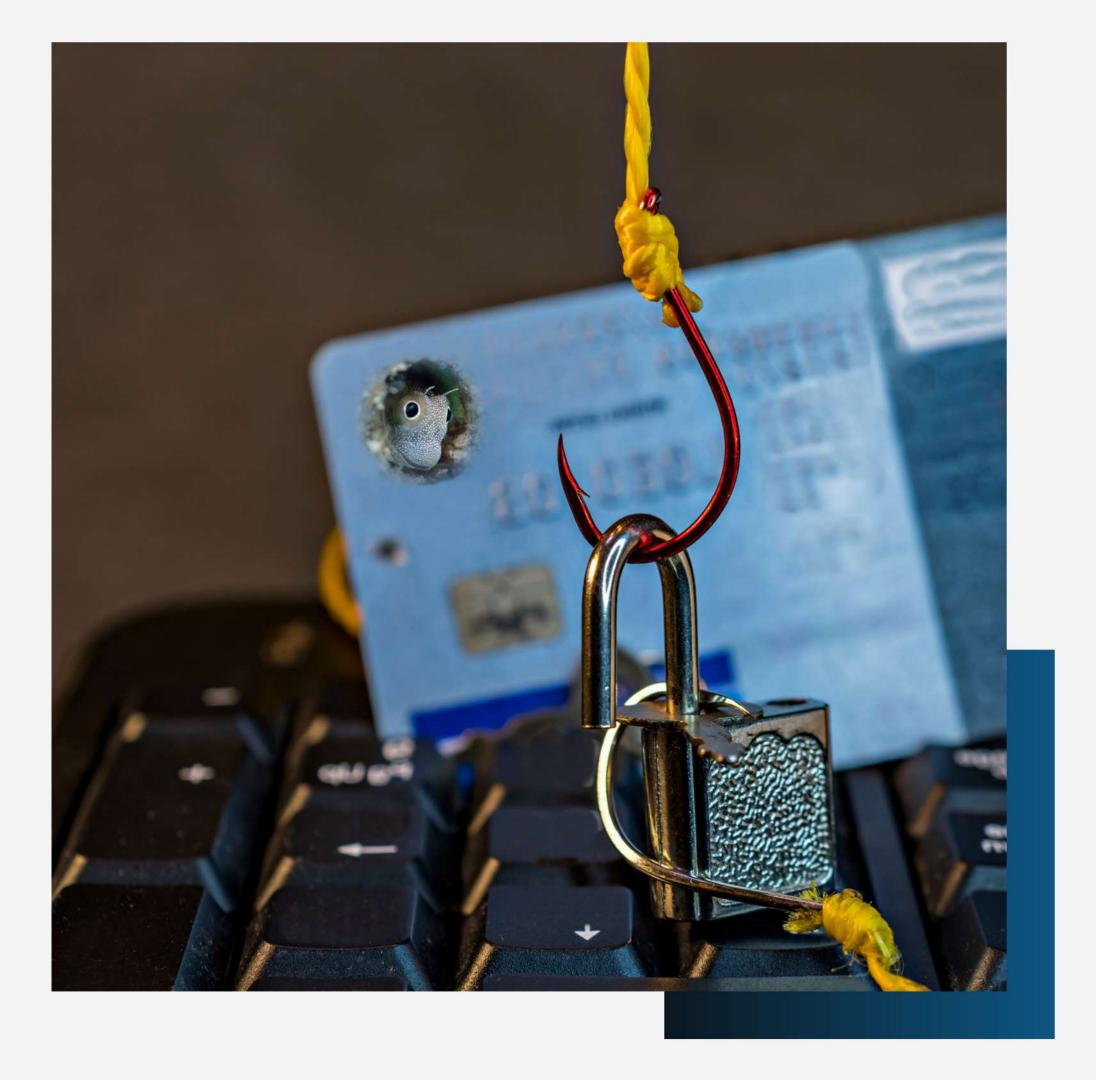
Types of Phishing

- Vishing voice phishing to collect sensitive personal information
- Quishing uses a combination of email and QR codes leading to malicious URL
- Angler Phishing social media phishing from fake customer service accounts.



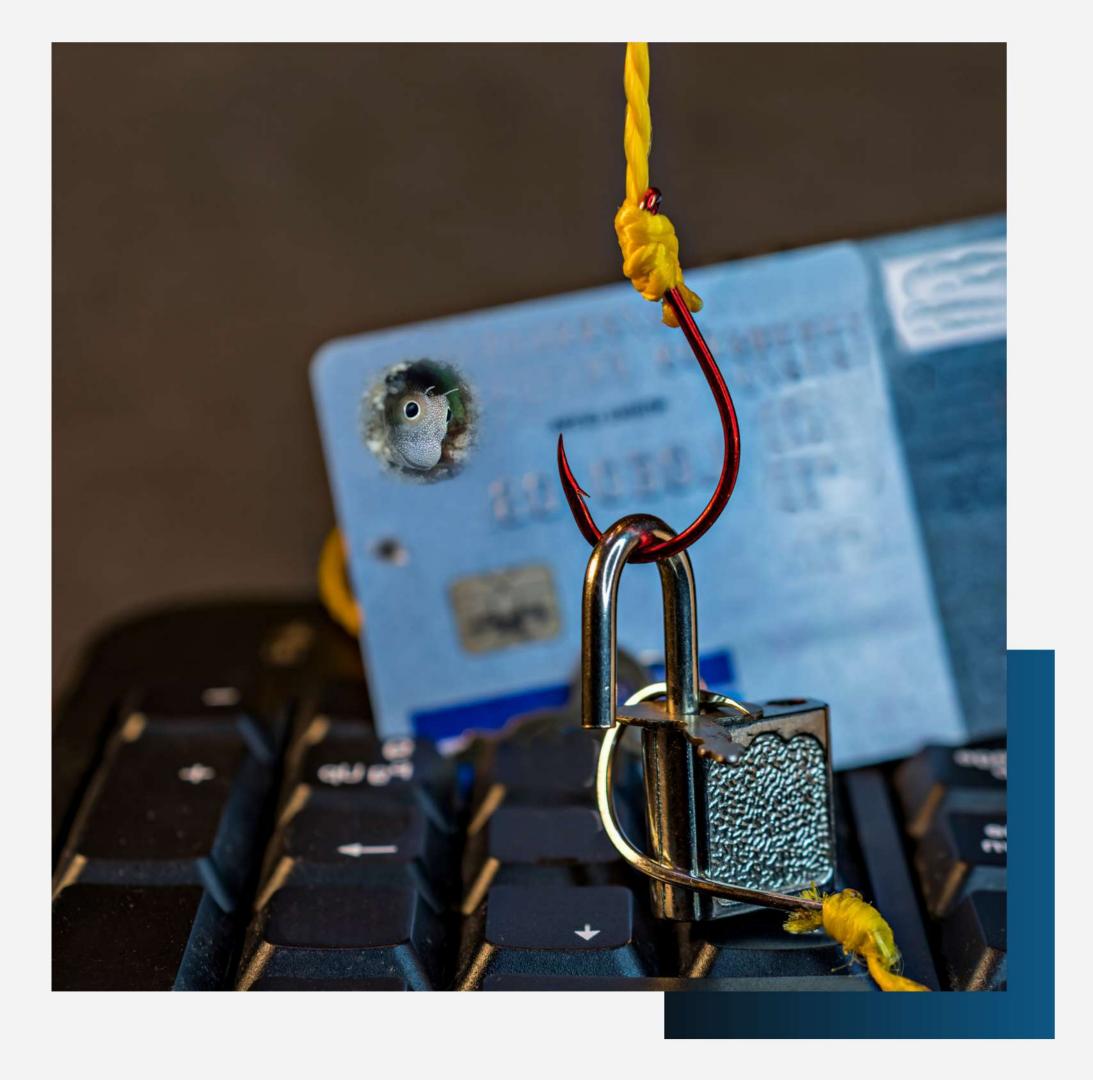
Types of Phishing

- Business Email Compromise spear fishing attack that uses a seemingly legitimate email address to to trick seniorlevel executives.
- Brand Impersonation emails, texts, voice calls and social media to impersonate a popular business to trick customers into revealing sensitive information.



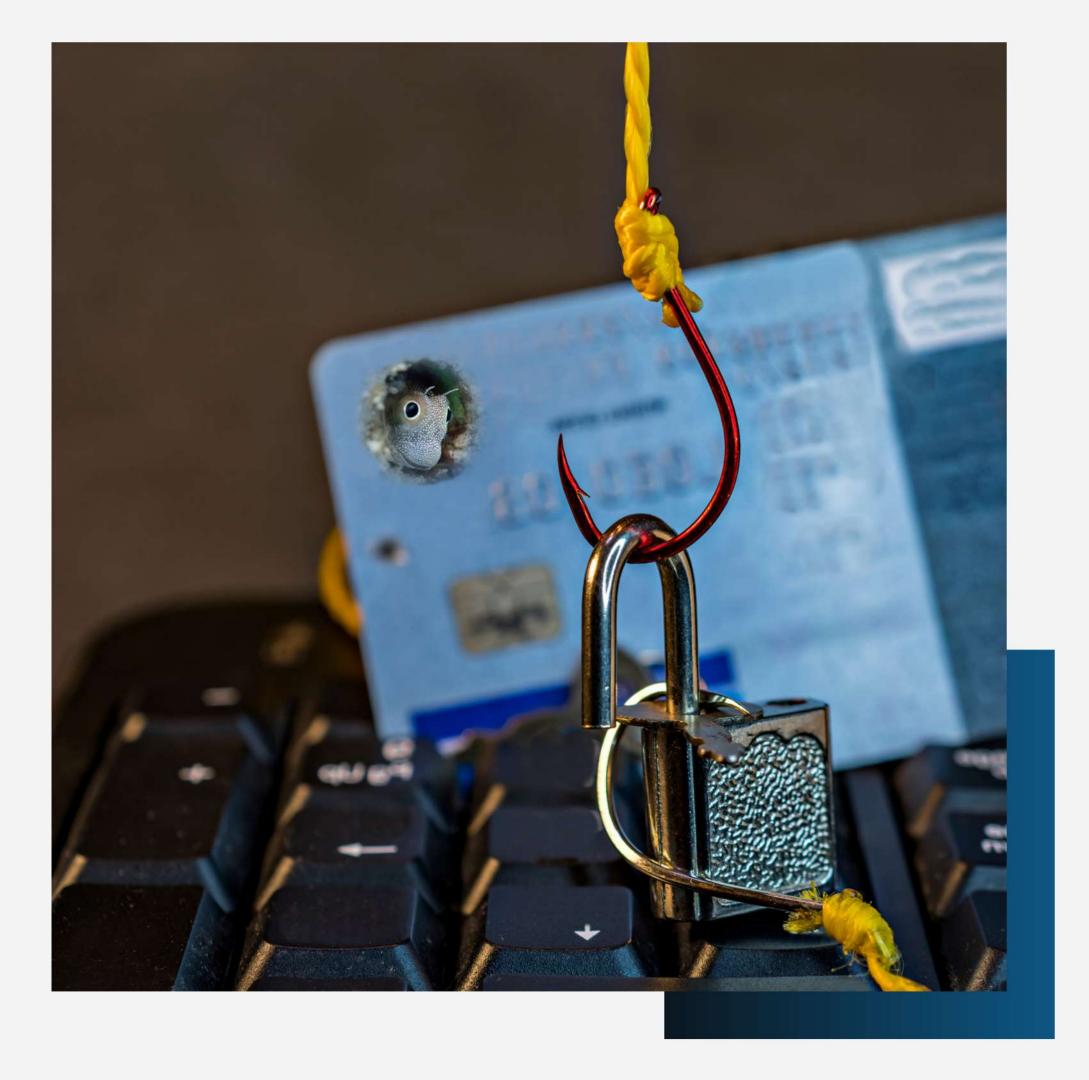
Don't take the bait!

- In an email ask you to click on a link, be wary. Links can contain malicious software that can steal your data in personal information.
- If an email directs you to a website, be cautious. It could be a malicious site that can steal your personal information such as login credentials.



Don't take the bait!

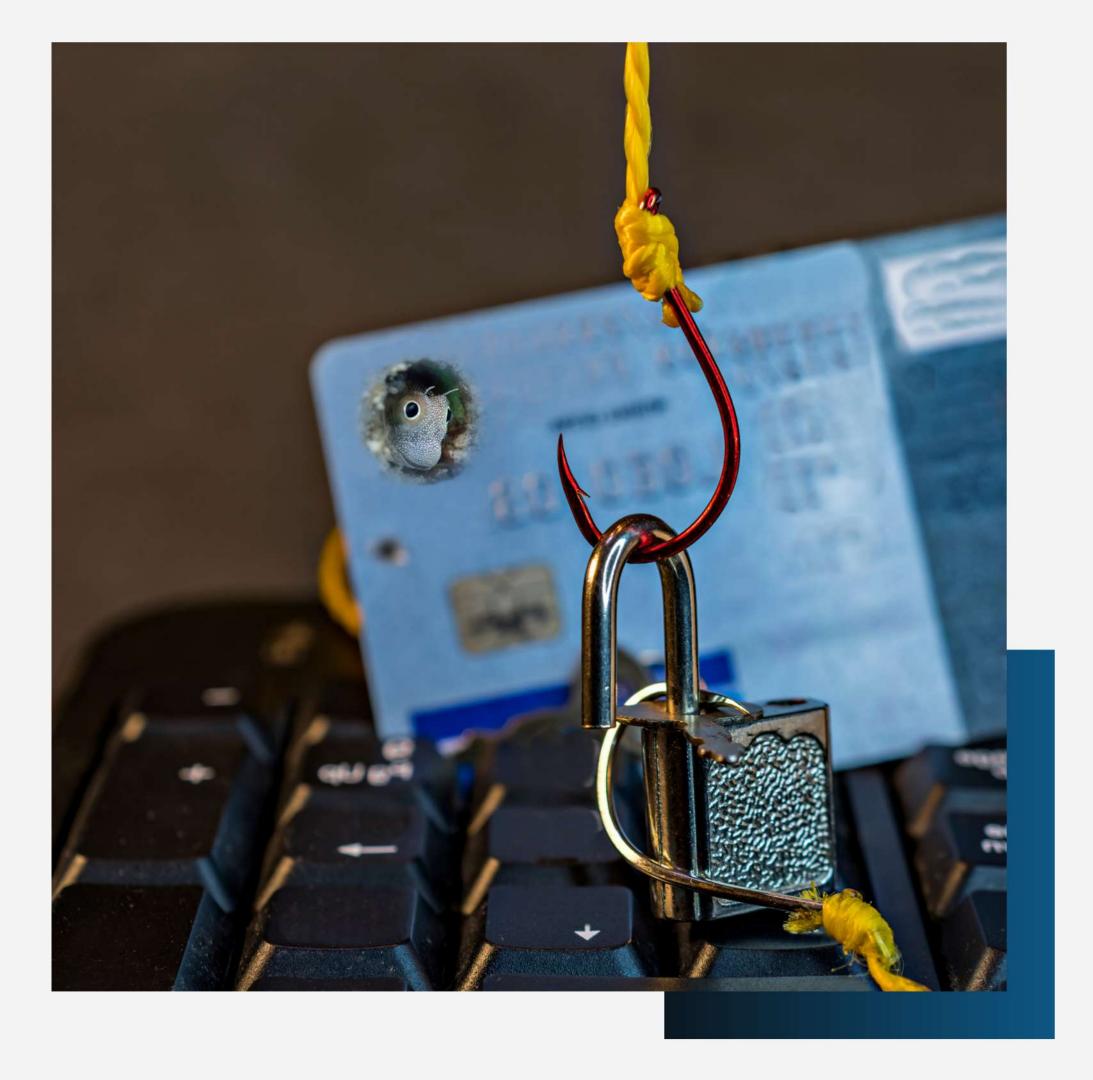
- If an email contains an attachment, be alert. Malicious extensions disguised to look like a document, invoice or voicemail can infect your computer and steal your info.
- If an email tries to rush you into taking an urgent action, such as transferring funds, be suspicious. Verify the authenticity of the request before taking action.



What about Al?

The Top Benefits:

- Smart Data Analysis
- Improved Productivity
- Faster Business Maneuvering



What about AI?

The Potential Risks:

- Al-Powered Phishing Scams
- Malicious Al-Generated Code
- Deep Fakes and Impersonations



Protect Yourself and Your Organization

Keep your software and anti-virus upto-date.

Establish computer usage guidelines for all employees.

Double-check all email attachments before opening them.



Protect Yourself and Your Organization

- Treat business information as personal information.
- Stay vigilant on Social Media.
- Trust Your Instincts.
- It only takes one time...



1. Alert All Employees





1. Alert All Employees

2. Review Individual Compromises





1. Alert All Employees

2. Review Individual Compromises

3. Establish Strict Password Policies



TIME IT TAKES A HACKER TO BRUTE FORCE YOUR PASSWORD

Number of Characters	Numbers Only	Lowercase Letters	Upper and Lowercase Letters	Numbers, Upper and Lowercase Letters	Numbers, Upper and Lowercase Letters, Symbols
4	Instantly	Instantly	Instantly	Instantly	Instantly
5	Instantly	Instantly	Instantly	Instantly	Instantly
6	Instantly	Instantly	Instantly	1 sec	5 secs
7	Instantly	Instantly	25 secs	1 min	6 mins
8	Instantly	5 secs	22 mins	1 hour	8 hours
9	Instantly	2 mins	19 hours	3 days	3 weeks
10	Instantly	58 mins	1 month	7 months	5 years
11	2 secs	1 day	5 years	41 years	400 years
12	25 secs	3 weeks	300 years	2k years	34k years
13	4 mins	1 year	16k years	100k years	2m years
14	41 mins	51 years	800k years	9m years	200m years
15	6 hours	1k years	43m years	600m years	15 bn years
16	2 days	34k years	2bn years	37bn years	1tn years
17	4 weeks	800k years	100bn years	2tn years	93tn years
18	9 months	23m years	6tn years	100 tn years	7qd years

Password Security

Utilizing a password generator or password manager can help you select longer, more complicated passwords that will be extremely difficult to breach.

Time It Takes Using AI to Crack Your Password [2023]



# OF CHARACTER	Numbers Only	Lowercase Letters	Upper & Lowercase Letters	Numbers, Upper & Lowercase Letters	Numbers, Upper & Lowercase Letters, Symbols
4	Instantly	Instantly	Instantly	Instantly	Instantly
5	Instantly	Instantly	Instantly	Instantly	Instantly
6	Instantly	Instantly	Instantly	Instantly	4 Seconds
7	Instantly	Instantly	22 Seconds	42 Seconds	6 Minutes
8	Instantly	3 Seconds	19 Minutes	48 Minutes	7 Hours
9	Instantly	1 Minutes	11 Hours	2 Days	2 Weeks
10	Instantly	1 Hours	4 Weeks	6 Months	5 Years
11	Instantly	23 Hours	4 Years	38 Years	356 Years
12	25 Seconds	3 Weeks	289 Years	2K Years	30K Years
13	3 Minutes	11 Months	16K Years	91K Years	2M Years
14	36 Minutes	49 Years	827K Years	9M Years	187M Years
15	5 Hours	890 Years	47M Years	613M Years	14Bn Years
16	2 Days	23K Years	2Bn Years	26Bn Years	1Tn Years
17	3 Weeks	812K Years	539.72M Years	2Tn Years	95Tn Years
18	10 Months	22M Years	7.23Bn Years	96Tn Years	6Qn Years

Password Security

Utilizing a password generator or password manager can help you select longer, more complicated passwords that will be extremely difficult to breach.



1. Alert All Employees

2. Review Individual Compromises

3. Establish Strict Password Policies

 Change Passwords for All Exposed Logins



Best Practices * *

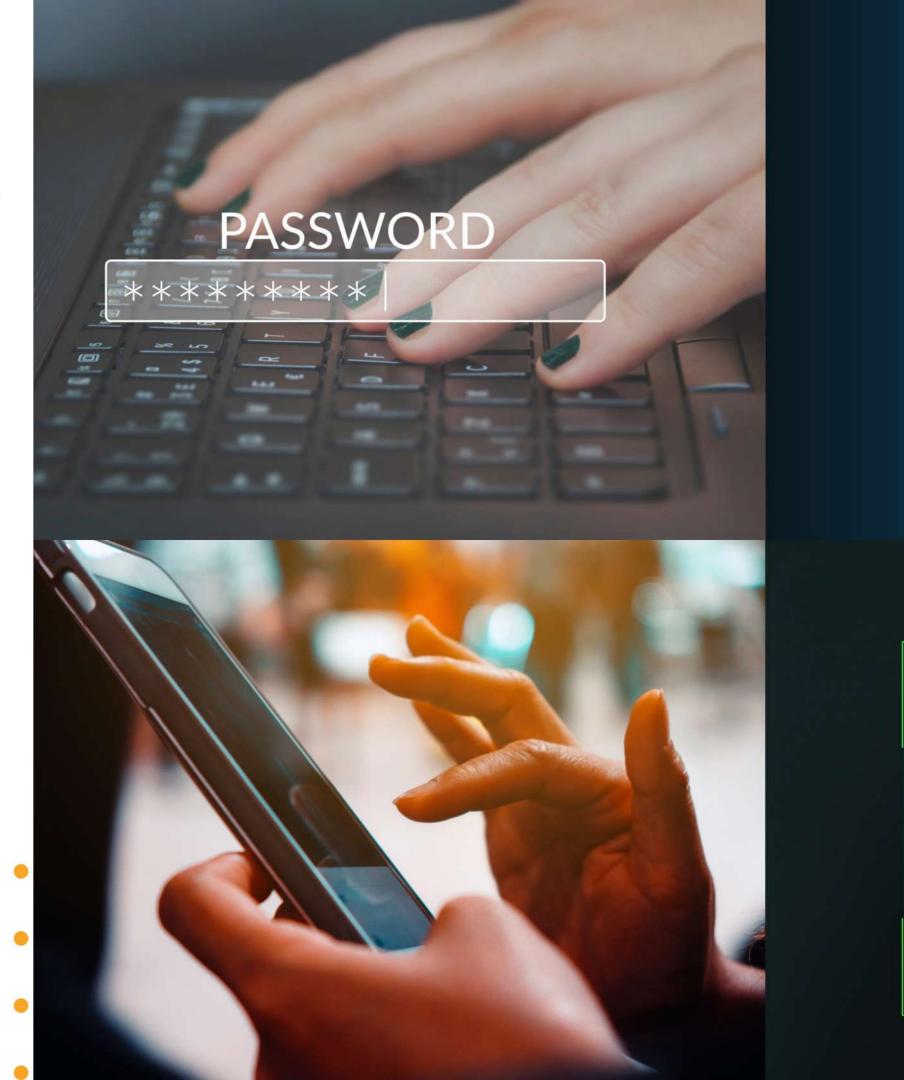


01

Implement Multi-Factor Authentication, or MFA

MFA/2FA

A security process that requires more than one method of authentication from independent sources to verify your identity.











02

Provide Ongoing Security

Awareness Training



03

Perform Regular Risk
Assessments



04

Proactively Monitor for Breaches and Cyber Threats



05

Back Up Everything!



06

Invest in Cyber Insurance



3 Types of Cyber Insurance

Cyber Theft

First-Party Coverage

Embezzlement

Scams - phony invoices, money transfers, etc.



3 Types of Cyber Insurance

Cyber Liability

Third-Party Coverage

Regulatory Penalties

Lawsuits



3 Types of Cyber Insurance

Cyber Extortion

Ransom

Negotiations

Forensics



Questions?



Free Dark Web Scan for Each Business

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https://cttsonline.com/acealunch





