

Phishing



Why learn Phishing?

- Phishing is the most common kind of attack, and surprisingly effective
- Used even in high profile attacks
- The 2020 twitter hack used common phishing tactics, which was "the worst hack of a major social media platform yet."





We are giving back to our community. We support Bitcoin and we believe you should too!

 \sim

All Bitcoin sent to our address below will be sent back to you doubled!

bc1qxy2kgdygjrsqtzq2n0yrf2493p83kkfjhx0wlh

Only going on for the next 30 minutes. 1:58 PM - Jul 15, 2020 - Twitter Web App



Common Techniques for Phishing

- Impersonation
- Fake login pages (links)
- Obfuscation of identity
- Botting





QR Code Demo

- This is more of a bad link example
- But bad links can be anywhere!





https://joyful-sawine-1aa918.netlify.app/n etlify/functions/log



Student Activity Center Fall 2024 - Spring 2025 Space Allocation Application

Is your RSO looking for:

- Office Space?
- Storage Cage Space?
- Locker Space?
- A Mailbox?

Left is evil,

Right is

original

Apply today by scanning this QR code and filling out an application!

*Deadline to apply is January 15th, 2024.

*If your RSO has 2023 - 2024 allocated space, and you want to be considered to keep it for the 2024 - 2025 year you <u>must</u> apply! See the application for more details.





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Center for Leadership & Involvement UNIVERSITY OF WISCONSIN-MADISON



Email Spoofing

In addition to techniques used earlier, there are techniques specific to email.

Emails are sent using a protocol called Simple Mail Transfer Protocol (SMTP).

Because of the nature of SMTP, fields in the header can be set to anything, meaning the "From" and "Reply-To" fields can be set to any value.

As a result, you can have a message that looks like it was sent from a certain email, but all replies are sent back to the sender. From: legitimate-account@example.com
Reply-to: malicious-actor@example.com

We flagged this comment because the From and Reply-to in the messages don't match.

View original email



Login Page Demo

• Transition time



Advanced Techniques for SE

- SMS/Email spoofing
- Spearphishing (OSINT)
- LLM Spearphishing

Return-Path: < <u>m.mouse@disney.com</u> >
X-Original-To: robertbateman@email.com
Delivered-To: robertbateman@email.com
Received: from localhost (cybercrime .org [91.99.504.210]) (using TLSv1.2 with cipher ECDHE-RSA-AES256-GCM-SH4562 (256/256 bits)) (No client certificate requested) by mailin005.disney.com (Postfix) with ESMTPS id 98910401007A for websythterproperties with the term of the second data of the second
<pre><robertbateman@email.com>; wed, 13 Jan 2021 15:38:36 +0000 (UTC)</robertbateman@email.com></pre>
Received: by localhost (Postfix, from userid 33) id 3F138221CB; Wed, 13 Jan 2021 10:38:36 -0500 (EST)
Authentication-Results: mailin005.disney.ch;
Authentication-Results: mailin005.disney.ch; <pre>spf=none</pre> smtp.mailfrom=m.mouse@disney.com
Authentication-Results: mailin005.disney.ch; dkim=none
To: robertbateman@email.com
Subject: Hi There
From: "Mickey Mouse" <m.mouse@disney.com></m.mouse@disney.com>
X-Priority: 3 (Normal)
Importance: Normal
Errors-To: m.mouse@disney.com
Reply-To: m.mouse@disney.com
Content-Type: text/plain
Message-Id: <20210113153836.3F138221CB@localhost>

Summary	Ocrrelations	Browse	♣ Graph	Scan Settings	Log	SF	Sear	ch	
Type \$			Unique Data	Elements	Total Data	ata Elements	Last Data Element		
Account on External Site			5503		5503		2022-04-06 15:27:02		
Affiliate - Company Name			86		512		2022-04-06 15:27:15		
Affiliate - Domain Name			1003		1175		2022-04-06 15:27:30		
Affiliate - Domain Whois			752		753		2022-04-06 14:39:23		
Affiliate - Email Address			172		337		2022-04-06 15:23:50		
Affiliate - IP Address			955		959		2022-04-06 15:27:03		
Affiliate - IPv6 Address			20		22		2022-04-06 15:23:03		
Affiliate - Internet Name			1074		1149		2022-04-06 15:23:47		
Affiliate - Internet Name - Unresolved			6		6		2022-04-06 09:31:42		
Affiliate - Web Content			7		8		2022-04-06 10:34:48		
Affiliate Description - Abstract			2		2		2022-04-06 14:22:31		
Affiliate Description - Category			16		16		2022-04-06 14:22:31		
App Store Entry			4		4		2022-04-06 09:20:24		
BGP AS Membership			15		97		2022-04-06 15:00:10		
BGP AS Ownership			2		3		2022-04-06 14:49:29		
Bitcoin Address			1		1		2022-04-06 09:50:35		
Bitcoin Balance			1		1		2022-04-06 09:51:26		
Blacklisted Affiliate Internet Name			10		10		2022-04-06 15:08:34		



DNS Spoofing Demo

Paul will give this demo



Interactivity

- But where's the CTF??
- Phishing is dangerous business, just ask this guy \rightarrow



(plugwalkjoe)



Interactivity

- What more protection can we have other than just "don't click the link"
- Most of the work can be done in DNS settings! \bullet
- Post-click protection \bullet
- https://github.com/Ultimate-Hosts-Blacklist/Ultimate.Hosts.Blacklist \bullet
- https://github.com/StevenBlack/hosts \bullet

Hostname	Ads	Trackers	Malware	Adult	Gambling	Social media
dns.mullvad.net						
adblock.dns.mullvad.net	\checkmark					
base.dns.mullvad.net	\checkmark					
extended.dns.mullvad.net						
all.dns.mullvad.net	\checkmark		\checkmark	\checkmark		

Custom host records are listed here.

End of custom host records. # Start StevenBlack

#==== # Title: Hosts contributed by Steven Black # http://stevenblack.com

- 0.0.0.0 ck.getcookiestxt.com
- 0.0.0.0 eul.clevertap-prod.com 0.0.0.0 wizhumpgyros.com
- 0.0.0.0 coccyxwickimp.com
- 0.0.0.0 webmail-who-int.000webhostapp.com
- 0.0.0.0 010sec.com
- 0.0.0.0 01mspmd5yalky8.com
- 0.0.0.0 0byv9mgbn0.com 0.0.0.0 ns6.0pendns.org
- 0.0.0.0 dns.0pengl.com
- 0.0.0.0 12724.xyz
- 0.0.0.0 21736.xyz 0.0.0.0 www.analytics.247sports.com
- 0.0.0.0 2no.co
- 0.0.0.0 www.2no.co
- 0.0.0.0 logitechlogitechglobal.112.207.net
- 0.0.0.0 www.logitechlogitechglobal.112.207.net 0.0.0.0 2s11.com
- 0.0.0.0 30-day-change.com
- 0.0.0.0 www.30-day-change.com
- 0.0.0.0 mclean.f.360.cn
- 0.0.0.0 mvconf.f.360.cn 0.0.0.0 care.help.360.cn
- 0.0.0.0 eul.s.360.cn
- 0.0.0.0 g.s.360.cn

(+ 160,000 lines more...)