Phishing Campaign Threatens Job Security, Drops Bazar and Buer Malware

area1security.com/blog/trickbot-spear-phishing-drops-bazar-buer-malware/

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byArea 1 Security/November 9, 2020

"You're fired.....NOT!" An ongoing and rapidly evolving spear phishing campaign is threatening targets with false claims of employment termination due to economic impacts from the global pandemic, among numerous other coercive tactics. The goal of the attacker is to intimidate employees into clicking on a link that will ultimately lead to Bazar or Buer malware infections by way of Trickbot.

Disruption Efforts

<u>Researchers at Zscaler ThreatLabZ</u> reported on similar activity, where they noted this was the first time they have seen both Bazar and Buer malware strains used together. Additionally, they have associated the activity with the Trickbot gang, known to use a combination of different malware groups and bots to conduct attacks.

While Trickbot started out as a banking trojan, known for hijacking victims' browser sessions once logged into their banking website, it has since been repeatedly repurposed for other objectives, including the ability to spread ransomware. This particularly maniacal and disruptive aspect of Trickbot functionality made it a top contender for possible cybersecurity threats to the 2020 U.S. presidential election.

With ransomware as an option, Trickbot posed a significant threat to U.S. election infrastructure. The malware's operators had the ability to compromise a massive number of voting machines during critical times in vote counting, undermining trust in the result. That, or they may have even been able to disrupt the voting process altogether by affecting entire voting locations, preventing large portions of the voter population from casting their ballots.

This could explain the recent wave of Trickbot takedown efforts. A report from <u>KrebsonSecurity</u> provided details of an operation that likely began on September 22nd and is conjectured to be a government counter-strike against the actors behind Trickbot. This activity, first identified by <u>Intel471</u> and possibly <u>conducted by the U.S. Cyber Command</u>, attempted to disrupt Trickbot infrastructure by forcing the botnet's controllers to issue bogus configurations.

These configurations swapped real controller IP addresses for the localhost address (127.0.0.1), preventing bots from calling home to receive commands. Not long after the phony configurations were sent, all known controllers appeared to have stopped properly responding to bot requests, suggesting the overall activity was a concerted, intentional effort to disrupt this pervasive botnet's operations.

Another attempt was made on October 1st, presumably by U.S. Cyber Command, that similarly altered the controller IP addresses needed to receive commands. Compounding the effects of this effort, <u>Microsoft</u> also attempted disruptions of Trickbot infrastructure by obtaining a court order to disable the botnet's IP addresses, among other actions. Most recently, <u>Microsoft issued an update</u> that they successfully took down 62 of the 69 Trickbot servers around the world with the remaining being unorthodox IOT devices.

However, these attempts reportedly would only have a short-term effect on Trickbot controllers since its operators use decentralized infrastructure that communicates over Tor, with blockchain-based EmerDNS as a fallback that is resistant to takedowns. Additionally, <u>Ars Technica</u> reports that Trickbot controllers are beginning to host their malware on other e-criminals' servers.

Area 1 Security's Findings on Trickbot Payloads

Unsurprisingly, not long after the previously mentioned Trickbot takedown operations occurred, Area 1 Security identified a prolific phishing campaign that intended to spread Bazar and Buer payloads via Trickbot. Worse yet, this newer stealthy malware in Trickbot gang's arsenal of tools can be used to deploy additional malware, including ransomware.

Area 1 Security researchers found evidence that the BazarLoader dropped in this campaign will not continue with the infection if the locale of the victim's device is in Russia, a common tactic seen with Trickbot.

In fact, <u>cyber security researchers</u> believe Trickbot is the handiwork of cybercriminals operating out of Russia. Since at least 2019, this group has been responsible for a surge in ransomware attacks targeting schools systems, local governments and even law enforcement agencies in the United States.

Potential for Election Interference

While these e-criminal groups have always been operating at some level in recent years, their activity has surged in the lead-up to the 2020 U.S. Presidential election. This suggests that entities involved in the U.S. election are prime targets for foreign adversaries, both nation-state and cybercriminal groups alike.

Lining up with the <u>recent FBI/DNI press conference</u>, Russian and Iranian state-sponsored groups are confirmed to have exfiltrated voter registration information. Additionally, these nations are behind separate email spoofing campaigns designed to undermine faith in the U.S. election.

At the moment, it is unclear if the phishing campaign that Area 1 Security identified is being carried out by any of these groups or if it is purposefully targeting election administrators. Regardless, state and local election administrators should be extra vigilant as they tend to be highly vulnerable to phishing attacks, as highlighted in <u>Area 1 Security's recent "Phishing Election Administrators" report</u>.

Threatening Phishing Lures

The recent phishing campaign that Area 1 Security discovered uses a number of lures that threaten job termination in order to intimidate employees into clicking on a provided URL. The phishing messages are very simple in their demand, and appear to originate from persons of authority within the targeted company, as seen in the phishing email below (Figure 1).

Debbie



Re: meeting of To: Reply-To: Debbie

Good day Further to our meeting of October,7, I am sorry to confirm that your employment with us is terminated with effect from <u>10/30/2020</u>.

Here is a copy of **Second Report** (<u>in PDF</u>) includes your payout.

To preview the report copy this link and paste to your browser: <u>https://docs.google.com/document/d/e/2PACX-1vTMvWEoGyf-l8t3pSxtRtl7mB8ADoe0FnjCzpNHW0A58W-</u> <u>_gUsKQtMEJ14Qym2EOY7ecqv3aOBNLSs/pub</u>

Debbie Head Office Notification

[Figure 1. Phishing Messages that Threaten Job Security]

The messages identified in this campaign are based on eliciting fear from the target audience, focusing on either employment termination or customer complaints.

The massive remote workforce transition, and the resultant decrease in face-to-face contact, gives attackers the advantage by making email delivery of these types of "employment notifications" all the more believable.

Targets of this campaign could potentially believe that the post-COVID shake up in their organizations is the reason they're being let go. With many businesses closing down unusable office space, combined with an economic recession, there is enough plausibility for this wide-ranging phishing attack to fool employees into believing that their position may be part of the now all-too-common budget cuts.

It's possible this Bazar and Buer campaign is part of the Trickbot operations that Microsoft and other partners are trying to defeat. If so, the activity Area 1 Security observed only further proves just how difficult it can be to counteract these complex malware operations.

With these Trickbot operations, threat actors have a litany of unique and ever-changing email accounts and IP addresses to execute their attacks. Despite the previously mentioned efforts to neutralize Trickbot controllers, the infrastructure used to support this particular campaign (if associated in any way) was hardly affected, and the attacker seems to have promptly resumed operations.

While disruption operations may have worked a decade ago, the Trickbot gang and other groups that rely on their Malware-as-a-Service (MaaS) offering are equipped with the necessary skills to continue their attacks without a hitch. Current botnets have all the professionalism of any IT company. They're able to manage disruptions and bring back services with continuity planning, backups, automated deployment, and a dedicated workforce.

The campaign noted above centered on termination-related documents available at a provided URL. When clicked, the link directs the victim's browser to either Google Docs or <u>Constant Contact</u>. By not attaching the malware as a file to the email, the attacker is able to bypass file scanning detections.

Moreover, attackers commonly use cloud-based hosting services to circumvent URL scanning techniques, and to easily create new malicious links in the event that their URLs are identified as phishing pages.

The Google Docs or Constant Contact link in the phishing email leads to a decoy preview page, as shown in Figure 2, that prompts the victim to open a list of terminated employees. The decoy also cleverly displays the often seen "If download does not start, click here". This link is where the malware is actually being hosted.

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Employees Termination List OCTOBER-20

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Preview is available only on a computer.

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[Figure 2. Google Doc Decoy Preview Page with Redirect Link]

Analysis of Bazar and Buer Malware

As seen in the figure below, after clicking on the link found in the online document, the victim is presented with a dialog box to run the file. The file is actually a malicious PE32+ executable that is designed to run on all Windows systems.



[Figure 3. Gaining Run Permission]

After clicking "Run," a series of events will take place on the victim's device that will ultimately lead to installation of the Bazar backdoor or Buer loader.

First, the PE32+ executable noted above will decrypt the payload using an RC4 cipher, a portion of which is provided in Figure 4 below. The payload happens to be none other than Trickbot, and typically the RC4 key is changed for each iteration of the malware.

```
lea
                         ; "ecW4N?iLE!Rz!#@MW)K+K!+uz)cMAn*S$g)W&Aa"...
        rcx, key
         Z11prepare_keyPhiP7rc4_key ; prepare_key(uchar *,int,rc4_key *)
call
mov
        edx, dword ptr [rbp+Size]
        rcx, [rbp+var_90]
lea
        rax, [rbp+Dst]
mov
        r8, rcx
mov
        rcx, rax
mov
call
         Z3rc4PhiP7rc4_key ; rc4(uchar *,int,rc4_key *)
        rax, [rbp+Dst]
mov
        [rbp+var_70], rax
mov
mov
        rax, [rbp+var_70]
call
        rax
[Figure 4. RC4 decryption of Trickbot Payload]
```

As detailed in Figure 5, Area 1 Security researchers identified the string "dave" at the end of the Trickbot payload in memory, which is consistent with <u>prior reporting</u> on techniques employed by Emotet and Trickbot malware developers. This string reveals the attacker's use of a custom packer to compress and encrypt the file, making it difficult for malware researchers to analyze the payload.

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278544	C9170000	C0400000	D0170000	D11A0000	C8400000	E01A0000	231C0000	-	20	-	-	»@	‡	#
278572	D0400000	301C0000	811C0000	D8400000	901C0000	C71C0000	E0400000	-@	0	A	ÿ@	ê	«	‡@
278600	D01C0000	021D0000	E8400000	101D0000	441D0000	F0400000	501D0000	-		Ë@		D	€@	Р
278628	781D0000	F8400000	801D0000	9E1D0000	00410000	E01D0000	021E0000	x	- @	Ä	û	Α	‡	
278656	08410000	701E0000	A41E0000	10410000	B01E0000	1B1F0000	18410000	A	р	§	Α	00		A
278684	301F0000	941F0000	20410000	A01F0000	C91F0000	28410000	D01F0000	0	î	Α	†	-	(A	-
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278740	40410000	70210000	D7210000	48410000	E0210000	13220000	50410000	@A	p!	0!	HA	‡!		PA
278768	20220000	3F240000	58410000	50240000	B5240000	60410000	C0240000		?\$	XA	P\$	μ\$	`A	٤\$
278796	8E260000	68410000	A0260000	D8280000	70410000	E0280000	8C290000	é&	hA	†&	ÿ(pА	‡(à)
278824	78410000	A0290000	792B0000	80410000	802B0000	B22E0000	88410000	хA	1)	y+	ÄΑ	Ä+	≤.	àA
278852	C02E0000	FC2E0000	90410000	102F0000	4C2F0000	98410000	602F0000	2.		êΑ	/	L/	λó	1
278880	4E300000	A0410000	D0300000	5A310000	A8410000	60310000	B6320000	NØ	† A	-0	Z1	0A	`1	92
278908	B0410000	C0320000	22330000	B8410000	00000000	00000000	00000000	∞A	żΖ	"3	∏A			
278936	00000000	00000000	00000000	00000000	00000000	00000000	00000000							
278964	00000000	00000000	00000000	00000000	00000000	00000000	00000000							
278992	00000000	00000000	00000000	00000000	00000000	00000000	00000000							
279020	00000000	00000000	00000000	00000000	00000000	64617665	00000000						dav	e

[Figure 5. "Dave" signature]

Despite this anti-reversing technique, Area 1 Security discovered the Trickbot payload attempts to further infect the victim device by decrypting and running the BazarLoader.

What are malware loaders? Loaders are an essential function that allow attackers to gain a foothold in a network and enable subsequent, more persistent infection via their command and control servers. This tactic opts for stealth by initially loading as little functionality as necessary.

In this case, the BazarLoader in turn attempts to download the Bazar backdoor via a <u>blockchain DNS</u> <u>lookup table</u>. This is a great tactic for attackers as it circumvents the need for registrars, giving full ownership of the blockchain domain to the attackers. This way, domain custodians like GoDaddy or Google Domains can't seize the domain if malicious activity is observed, nor will they have the ability to share information about the domain if served a court order.

Similar to bitcoin, Top Level Domains (TLDs) like .bit, .bazar, and .coin are not owned by a single authority but instead shared over peer-to-peer networks. This offers users the ability to bypass censorship and other government restrictions, but also provides a platform for attackers to conduct illicit activities that are safe from typical countermeasures.

As shown in Figure 6, to download the backdoor, the loader loops through eight unique IP addresses and five domains under the EmerDNS .bazar TLD.

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27/20	02:36:51	РП	L DNS Server1	Received H request for domain 'bdfgimbthgio.bazar'.	
27/20	02:36:51	PM	L DiverterJ	Report10-13.exe (236) requested UDP 195.10.195.195.53	
27/20	02:36:51	PM	[DNS_Server]	Received A request for domain 'dcehjldeghjn.bazar'	
27/20	02:36:51	PM	[Diverter]	Report10-13.exe (236) requested UDP 192.71.245.208:53	
27/20	02:36:51	РM	[DNS Server]	Received A request for domain 'dcehjldeghjn.bazar'.	
27/20	02:36:51	РM	[Diverter]	Report10-13.exe (236) requested UDP 176.126.70.119:53	
27/20	Ø2:36:51	PM	[DNS Server]	Received A request for domain 'dcehildeghin.bazar'.	
27/20	Ø2:36:51	PM	[Diverter]	Report10-13 exe (236) requested UDP 151 80 222 79:53	
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27/20	02:36:51	PH	L Diverter]	Report10-13.exe (236) requested UDP 51.254.25.115.53	
27/20	02:36:51	PM	L DNS Server1	Received A request for domain 'dcehjldeghjn.bazar'.	
27/20	02:36:51	PM	[Diverter]	Report10-13.exe (236) requested UDP 95.174.65.241:53	
27/20	02:36:51	PM	[DNS Server]	Received A request for domain 'dcehjldeghjn.bazar'.	
27/20	02:36:51	РM	[Diverter]	Report10-13.exe (236) requested UDP 195.10.195.195:53	
27/20	02:36:51	РM	[DNS Server]	Received A request for domain 'bdfgjlbfhgjn.bazar'.	
27/20	02:36:51	PM	[Diverter]	Report10-13.exe (236) requested UDP 192.71.245.208:53	
27/20	Ø2:36:51	PM	[DNS Server]	Received A request for domain 'bdfgilbfbgin_bazar'.	
27/20	Ø2:36:51	РM	[Diverter]	Report 10-13 eye (236) requested HDP 176 126 70 119:53	
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27/20	02:36:51	PH	L DNS Server1	Received H request for domain bargjibingjn.bazar	
27/20	02:36:51	PM	L Diverter	Report10-13.exe (236) requested UDP 193.183.98.66.53	
27/20	02:36:51	РM	L DNS_ServerJ	Received A request for domain 'bdfgjlbfhgjn_bazar'	
27/20	02:36:51	PM	[Diverter]	Report10-13.exe (236) requested UDP 51.254.25.115:53	
27/20	02:36:51	РM	[DNS Server]	Received A request for domain 'bdfgjlbfhgjn.bazar'.	
27/20	02:36:51	РM	[Diverter]	Report10-13.exe (236) requested UDP 95.174.65.241:53	
27/20	02:36:51	РM	[DNS Server]	Received A request for domain 'bdfgjlbfhgjn.bazar'.	
27/20	02:36:51	РM	[Diverter]	Report10-13.exe (236) requested UDP 195.10.195.195:53	
27/20	Ø2:36:51	PM	DNS Server1	Received A request for domain 'adehklafghkn.hazar'.	
27/20	02:36:51	PM	[Diverter]	Report10-13.exe (236) requested UDP 192.71.245.208:53	
27/20	Ø2:36:51	РM	[DNS Server]	Received A veguest for domain 'adebklafgbkn bazar'	
27/20	02:36:51	РМ		Report 10-13 eve (236) requested HDP 176 126 70 119.53	
27/20	02-36-51	РМ	[DNS Service1	Received A veryest for domain 'adebklafrakke baran'	
27/20	02-36-51	PM	[Diugnton]	Report 10-13 eve (236) requested IDP 151 90 222 70.00	
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27/20	02:36:51	PH	L DNS Server1	Received H request for domain 'adehklafghkn.bazar'.	
27/20	02:36:51	PП	L Diverter	Report10-13.exe (23b) requested UDP 193.183.98.66:53	
27/20	02:36:51	PM	L DNS_Server1	Received A request for domain 'adehklafghkn.bazar'.	
27/20	02:36:51	PM	L Diverter]	Report10-13.exe (236) requested UDP 51.254.25.115:53	
27/20	02:36:51	ΡM	[DNS Server]	Received A request for domain 'adehklafghkn.bazar'.	
27/20	02:36:51	ΡM	[Diverter]	Report10-13.exe (236) requested UDP 95.174.65.241:53	
27/20	02:36:51	ΡM	[DNS Server]	Received A request for domain 'adehklafghkn.bazar'.	
27/20	02:36:51	PM	[Diverter]	Report10-13.exe (236) requested UDP 195.10.195.195:53	
27/20	02:36:51	PM	[DNS Server]	Received A request for domain 'ceggilcgigin.bazar'.	
27/20	02:36:51	PM	[Diverter]	Report10-13.exe (236) requested UDP 192.71.245.208:53	
27/20	02:36:51	PM	[DNS Server]	Received A request for domain 'ceggilcgigin.bazar'.	
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[Figure 6. Attempted Outbound Connections to Download the Bazar Backdoor]

The second level domains are comprised of 12 alphabetical characters that are generated using a specific <u>domain generation algorithm</u>. The malware runs through the list of generated .bazar domains to find one that is still actively hosting the backdoor.

Once the backdoor is downloaded and successfully run, that attacker can carry out any number of devious acts, including remotely executing commands, exfiltrating sensitive data, and deploying other payloads. These additional payloads range anywhere from post-exploitation frameworks like CobaltStrike to ransomware like Ryuk.

In fact, Trickbot is known to deliver Ryuk ransomware to devices via BazarLoader. In <u>one instance</u>, after the initial Bazar infection, attackers exploited a recently disclosed vulnerability to escalate privileges and gain domain-wide ransomware infection just five hours after sending their phishing message.

This is unfortunately just one of many possible outcomes that can result from successful infection via this Trickbot phishing campaign we intercepted.

How to Stop Evolving Trickbot Campaigns

The threat actors behind this campaign leveraged a number of sophisticated techniques to easily evade legacy vendors and cloud email providers. Linking to legitimate, cloud-based sites within the phishing messages, combined with the use of takedown- and sinkhole-resistant <u>EmerDNS TLDs</u>, makes this a particularly difficult campaign for standard defenses to detect.

Area 1 Security's advanced Machine Learning and Artificial Intelligence technology allow our algorithms to uncover the clever tactics seen in this campaign, enabling us to block the messages in real time instead of waiting days or weeks for signature updates. Our time-zero detections lead the industry with reliable verdicts that stop phishing attempts at delivery time.

This means that malware like Trickbot, the Bazar backdoor, and follow-on infection with ransomware, never have the opportunity to make their way onto our customers' devices. The key to stopping sophisticated malware campaigns such as these is a preemptive approach, which has many advantages over post-delivery retraction, and prevents the user from ever being exposed to the attack.

Indicators of Compromise

Phishing Email Subject Lines:

- Re: Termination List
- RE: termination,
- Re: my visit and call
- Re: meeting of
- RE: office
- RE: office,

Malicious PE32+ Executable Linked to in Decoy Document:

Sha1: 895d84fc6015a9ad8d1507a99fb44350fb462c79

Sha256: a3b2528b5e31ab1b82e68247a90ddce9a1237b2994ec739beb096f71d58e3d5b

Md5: dbdb5ddd07075b5b607460ea441cea19

Sites Hosting Malicious PE32+ Executable:

hxxps://tees321[.]com/Document3-90[.]exe

hxxps://centraldispatchinc[.]com/Report10-13[.]exe

hxxps://www[.]4rentorlando[.]com/Text_Report[.]exe

Malicious Links in Phishing Messages:

hxxps://files.constantcontact.com/0d2efd83801/50f95d03-8af1-4396-ac84-d6a7f1212026.pdf

hxxps://docs[.]google[.]com/document/d/e/2PACX-1vQzFpGbLRNSIpbkIM51_9P78DJbhxmMLeMzQUJxX9roupKMn3xYX1ZBEjP2Jo5_CHbzoqIdVnwPeazU/pub

hxxps://docs[.]google[.]com/document/d/e/2PACX-1vRhLU8Ar86crHTwsP7rSyStmTABnsPtQ4q3Mic9UIZN-hz06cO8fuzsiiEus9seLQHDU4T51YGcejNU/pub

hxxps://docs[.]google[.]com/document/d/e/2PACX-

1vTVCHKzmdSD2wX03GTnyBToo4xvldfGqtFWZiz5bT5cTRozW4Xk5H6GER0GmscSPqnpyFtokphDl-_U/pub

hxxps://files[.]constantcontact[.]com/5e536f60101/8c5d270a-897a-4ac8-845a-86c920bf229c[.]pdf

hxxps://files[.]constantcontact[.]com/defde16c001/0aa90d3a-932f-4343-8661-22e4f6488705[.]pdf

hxxps://docs[.]google[.]com/document/d/e/2PACX-1vSIUktRROV3hU60c_n8LWFpOQBdyJj-N10g4tn14hBfmdaiRGKL9rc4vnTRYdLErwU0AHt7WwbzwU9q/pub

hxxps://docs[.]google[.]com/document/d/e/2PACX-1vRFLfuWRihaQHjGEPs8-Dm7Y3VxEFRpiUJuJmD9Vm6y3xVSSG9Vc3XxRnbyHQzIoWQ_5REbdDbkOq0s/pub

Outbound BazarLoader DNS Requests for Analyzed PE32+ Executable (Port 53):

95[.]174[.]65[.]241:53

195[.]16[.]195[.]195:53

192[.]71[.]245[.]208:53

176[.]126[.]70[.]119:53

151[.]80[.]222[.]79:53

94[.]16[.]114[.]254:53

193[.]183[.]98[.]66:53

51[.]254[.]25[.]115:53

Blockchain Domains for Analyzed PE32+ Executable:

bdfgimbfhgio[.]bazar

dcehjldeghjn[.]bazar

bdfgjlbfhgjn[.]bazar

adehklafghkn[.]bazar

ceggilcgigin[.]bazar

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Understanding the Four Business Email Compromise Attack Types

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Understanding the Four Business Email Compromise Attack Types

April 18, 2022

Business Email Compromise (BEC), also sometimes referred to as email account compromise (EAC) or vendor email compromise (VEC), is a type of phishing attack that takes advantage of an existing relationship between a victim and organization.

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Area 1 Security Announces the Most Spoofed Brand of 2021

March 31, 2022

Dear America's sports-loving, company-securing fans: Before you find yourself glued this weekend to (what some call) THE biggest game in college basketball history, we are here to crown the 2022 March Hackness winner!

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MARCH HACKNESS	
2022 The perfect phishing bracket	

2022 March Hackness: The Return of the Phishing Bracket

March 26, 2022

Area 1 Security's Sixth Annual March Hackness: The Perfect Phishing Bracket is here! Learn who made the list of the top brands that attackers use in phishing lures.

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