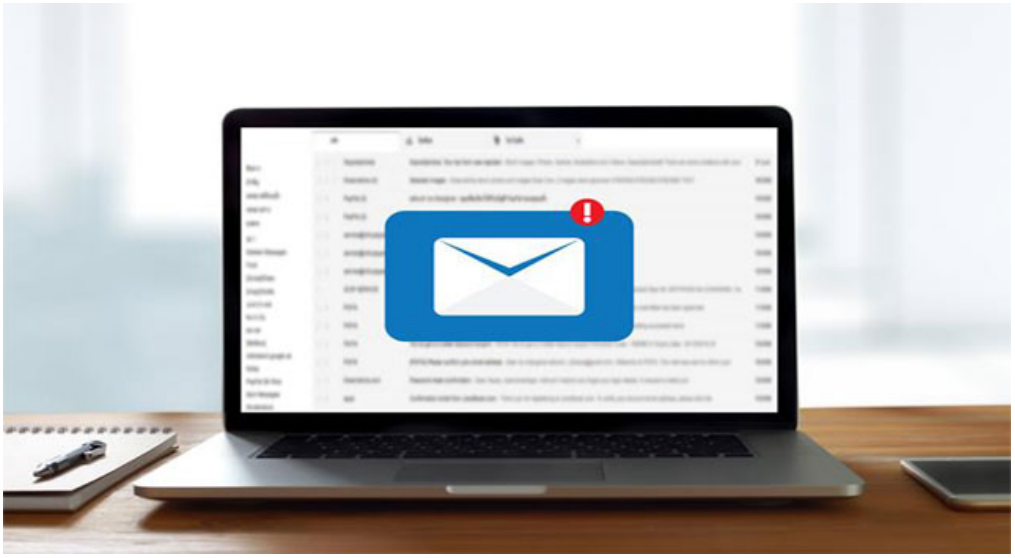
A Spike in BazarCall and IcedID Activity Detected in March

trendmicro.com/en_us/research/21/d/a-spike-in-bazarcall-and-icedid-activity.html

April 12, 2021



Spam

We discuss the cases of BazarCall and IcedID we observed in March. Both are known for the use of spam to deliver their payloads.

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We observed a spike in BazarCall and IcedID activity in March. One thing these two campaigns have in common is the use of spam that lead victims into downloading malicious files. BazarCall takes a more roundabout approach by involving phone calls in its campaigns, while IcedID stole and repurposed real email conversations to make its malicious spam more convincing.

Based on separate reports on BazarCall and IcedID, both have been actively distributed through spam campaigns in March. This is also reflected in our own findings.

BazarCall

BazarCall was named for its use of phone operators to instruct users into downloading a malicious file that typically leads to the payload BazarLoader. BazarLoader was discovered in 2020 and is linked to the developers of Trickbot as well as in campaigns involving the well-known Ryuk ransomware.

We saw a surge in its activity in March, with most of its targeted victims residing in the US, followed by Germany and India, based on the number of spam mail containing BazarCall that we have detected.

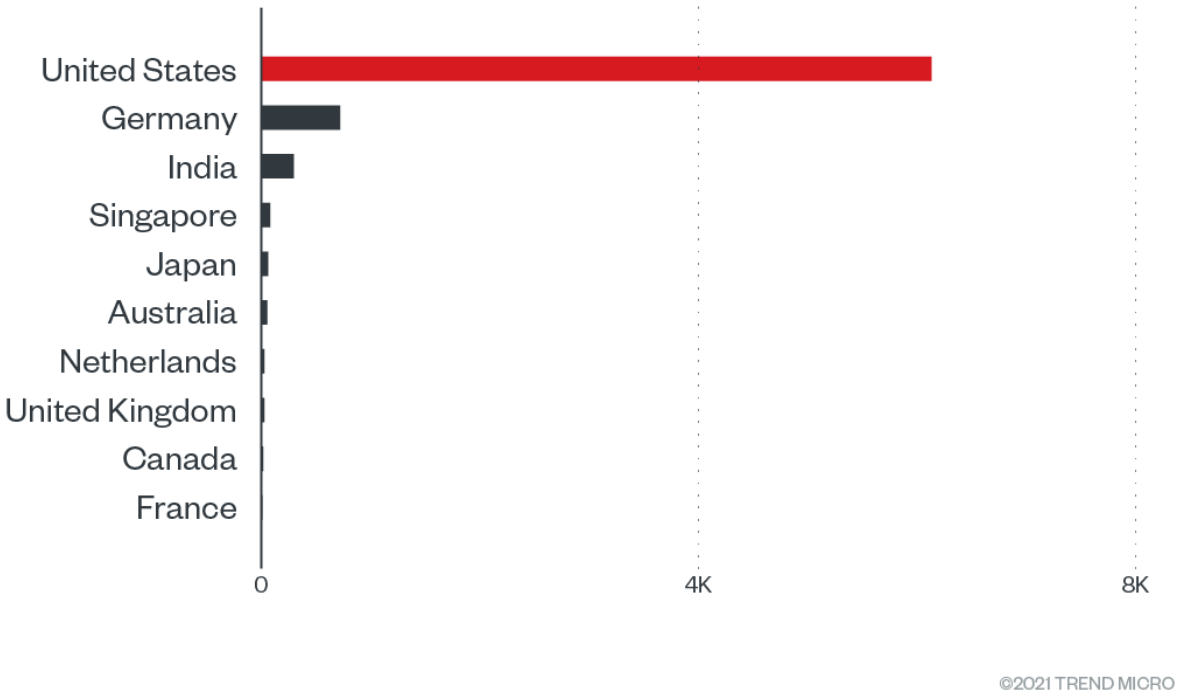

Figure 1. Countries that received the most spam mail containing BazarCall from March 23 to 25

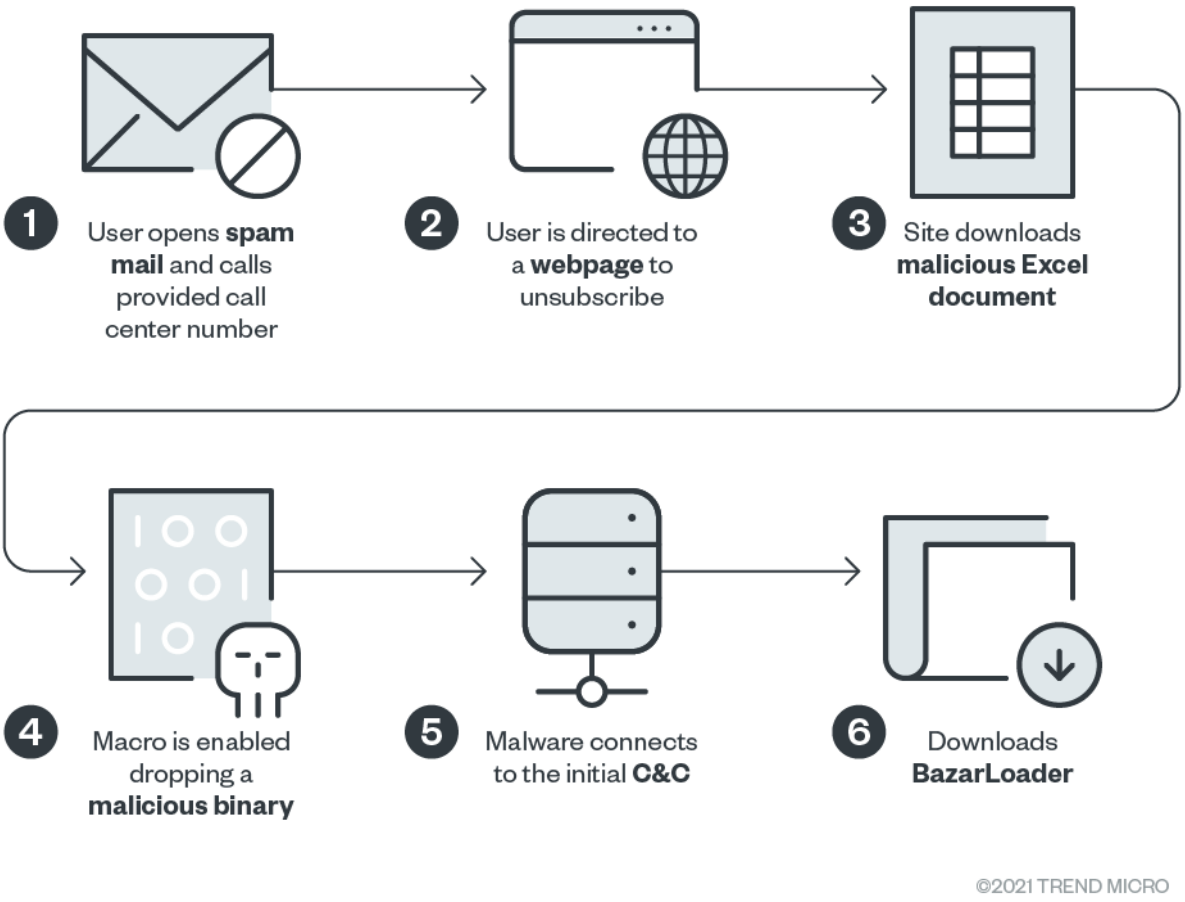

Figure 2. BazarCall infection chain

BazarCall's routine starts with a spam mail stating that the victim's free trial period for a service rendered by the fictitious company "Medical Reminder Service" is about to end. This is the same company name used in the BazarCall campaign that Bleeping Computer reported. The campaign we have observed largely follows the pattern described in their report. In the email, the user is directed to call a provided phone number to unsubscribe and avoid being billed monthly charges.

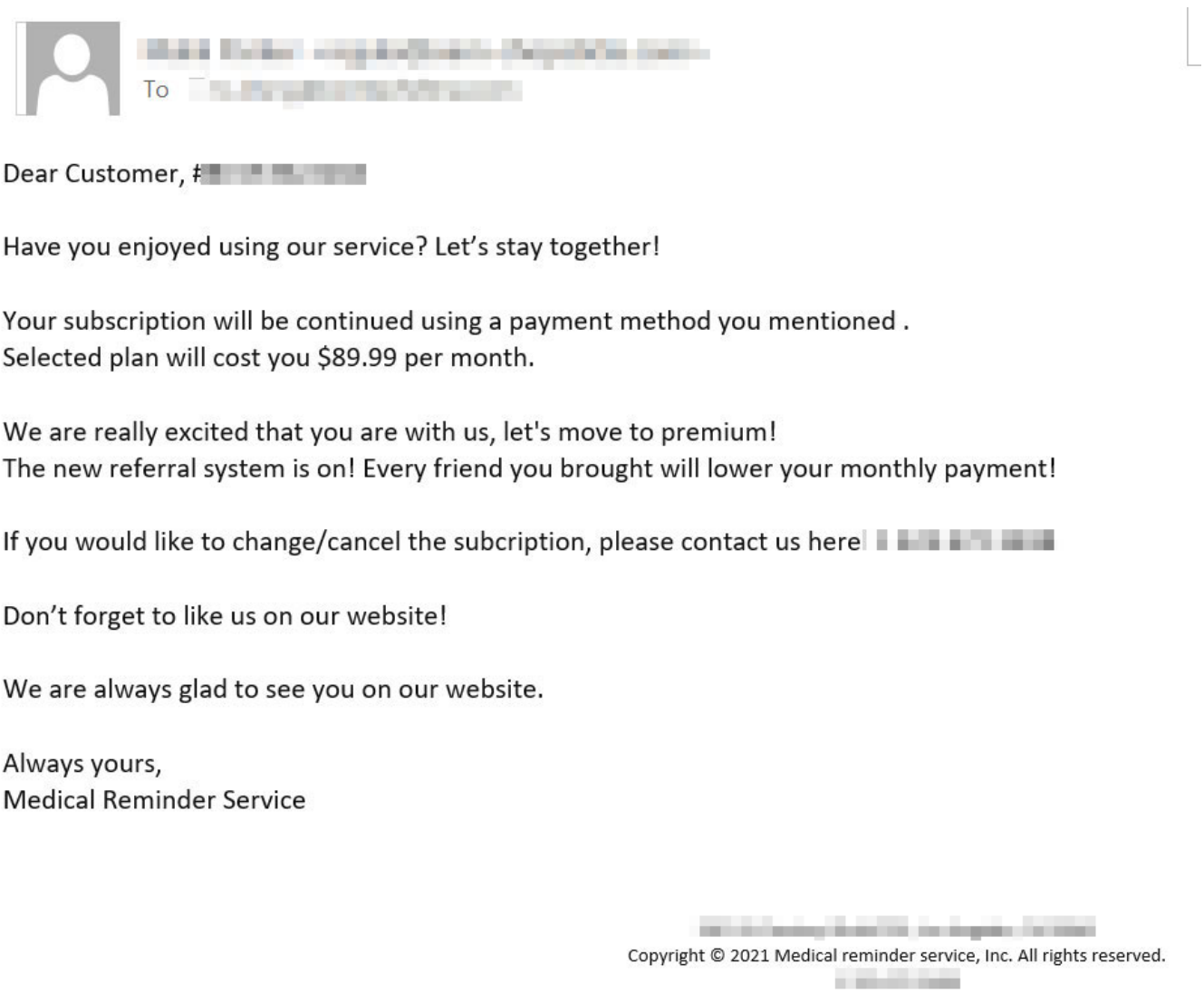

Figure 3. The message stating that the victim’s free trial subscription is about to end and the contact number to end the subscription

The phone operators will then instruct the user to go to a webpage to unsubscribe. This page is the malware chain’s download page. Once the victim enters their subscription number, the site automatically downloads an Excel document that is made to look like a regular form, but it’s actually a malware-embedded file.

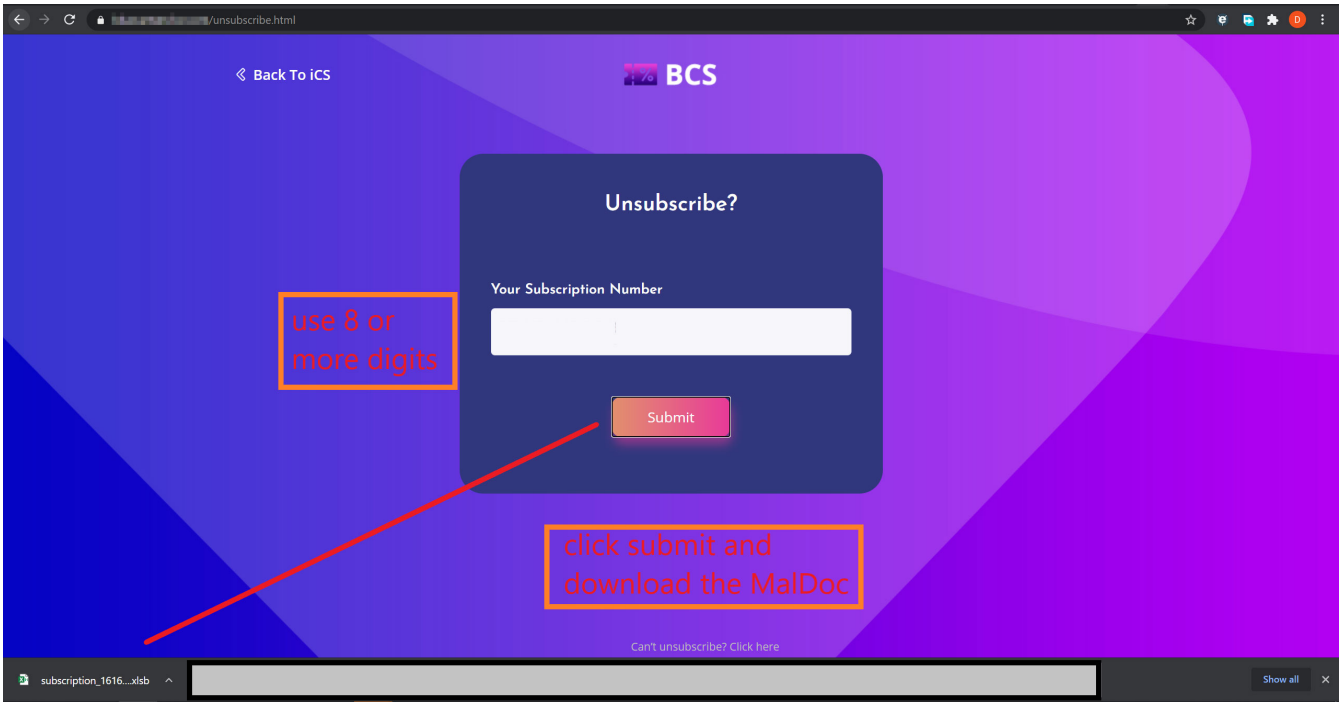

Figure 4. The subscription site and the download page for the malicious file

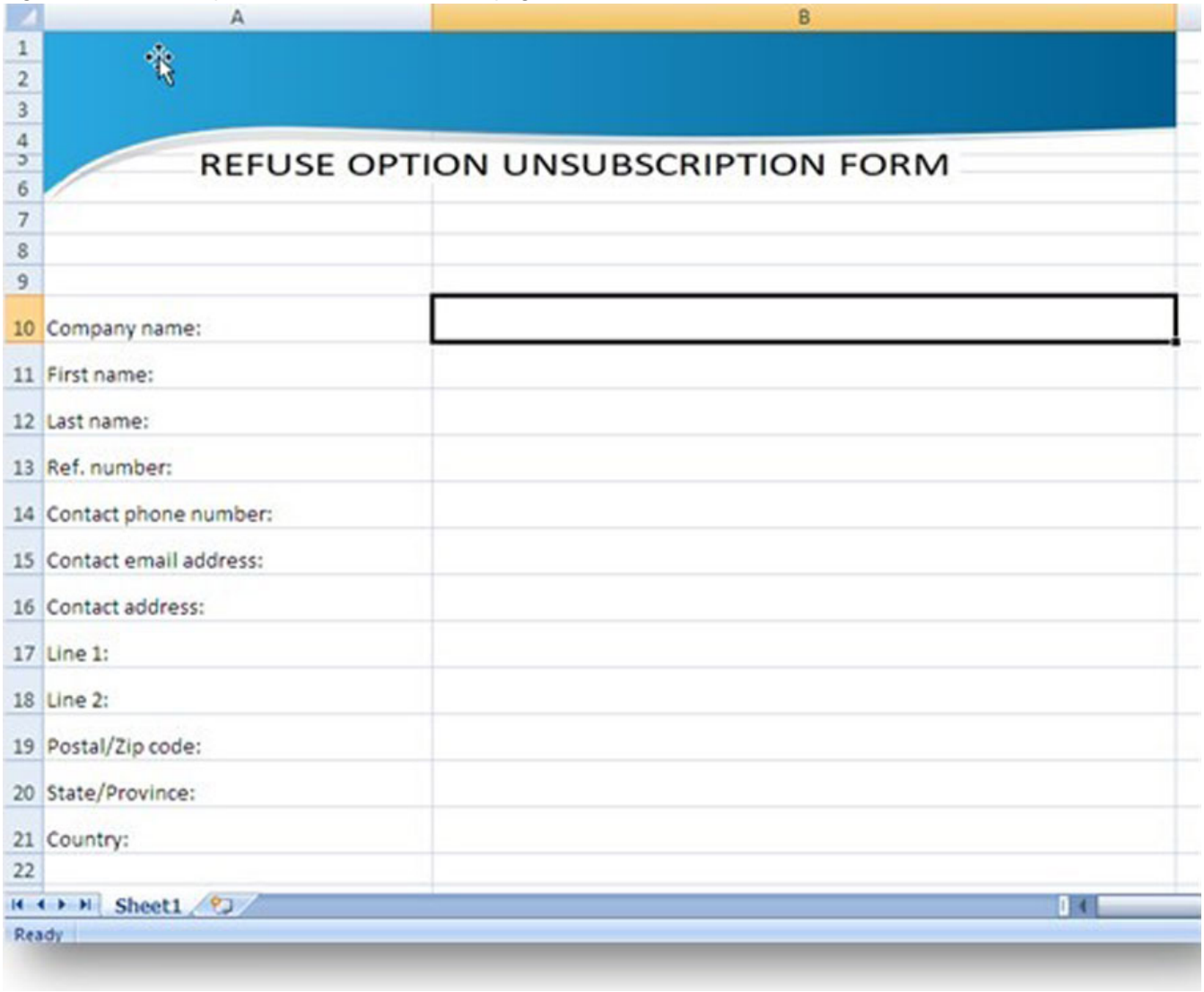

Figure 5. The malicious Excel document

The phone operator continues to guide the user into unwittingly enabling macros that will drop a malicious binary in the folder C:\Users\Public.

The embedded malware will first attempt to send the command “ping” to the initial command-and-control (C&C) server where the likely response is the second stage download URL, delivering the final BazarLoader payload. Unfortunately, at the time of our analysis, we were unable to test any of the C&C servers for live activity.

BazarCall also distinctly makes use of Campo Loader, which appears to be a malware-as-a-service (MaaS), to deliver its final BazarLoader payload. We continue to monitor developments for BazarCall. At present, the surge we saw in March seems to have tapered off in April.

IcedID

Meanwhile, IcedID is a banking trojan first discovered in 2017. It has been used by the threat group Shathak or TA551 in 2020. The group used malicious spam that contains a password-protected Word document with malicious macros.

Similar to BazarCall, we saw a spike in IcedID activity last month. IcedID campaigns are known for using stolen real email conversations on which they attach their malicious files in zip format. This was the same tactic we observed.

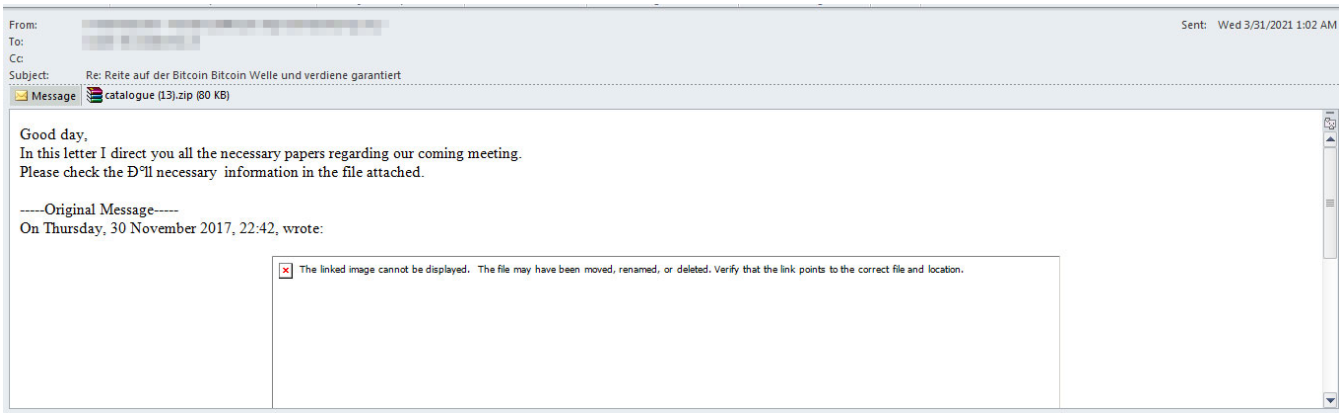

Figure 6. Sample of spam used to deliver IcedID. It is a copied message containing a compressed attachment.
If the attachment is opened it would contain an XLSM file. This file uses a simple stealth technique — a hidden column containing malicious formulas in white text, making it invisible to the victim unless they unhide and highlight the column. If the victim runs the macro code, it will download a 64-bit .dll file, which is the IcedID in binary.

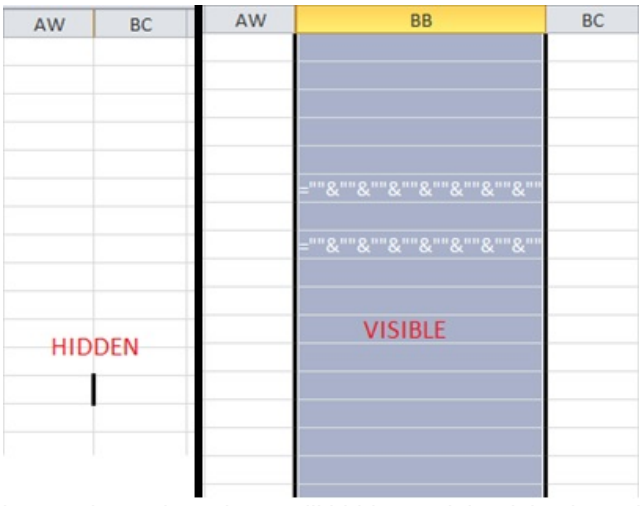

Figure 7. The Excel file used to download IcedID: The left image shows the column still hidden and the right shows it visible and highlighted.
Our detections for IcedID show continuing activity going into April but as with BazarCall, these have also decreased in number.

Implications and security recommendations

The use of spam is a traditional and staple way of delivering malware. Attacks that use such methods can resurge whenever threat actors find a way to make their fake instructions and messages more convincing. Threat actors are also on the lookout for situations where users are especially susceptible to such schemes. Remote work conditions or the use of timely topics, for example, can make users less vigilant.

These scenarios are exemplified by BazarCall and IcedID. The use of phone calls and the BazarCall operators' adoption of a regular company identity has had victims convinced of the bogus service and subscription. While IcedID's continued use of stolen conversations allows it to avoid many of the usual indicators of a malicious email. IcedID has also recently used emails centered on the Covid-19 pandemic to trick its victims.

Users need to be especially wary of the tactics that BazarLoader and IcedID employ as they have also been used to deliver other payloads such as well-known ransomware families. As mentioned earlier, BazarLoader has already been linked to Ryuk. IcedID was very recently used to deliver Sodinokibi, and was used in Egregor ransomware attacks.

Here are some of the best practices businesses and users can adopt to defend against threats such as BazarCall and IcedID:

- Always check the email sender, subject, and body for anything suspicious before downloading and opening email attachments. Be wary of unsolicited emails with unknown senders.
- Check the file extension of the attached file and make sure it is in the intended file format.
- Only activate macro for any attached Microsoft Office files when necessary. Be especially wary of emails that request macro activation using an image of the body of the opened file or those that don't show anything.
- Watch out for spoofed domains embedded in emails before opening them and do a quick search of the company or website used in emails to check their legitimacy.

Trend Micro solutions

Organizations can benefit from having Trend Micro™ endpoint solutions such as Trend Micro Smart Protection Suites and Worry-Free™ Business Security. These can protect users and businesses from threats by detecting malicious files and spammed messages as well as blocking all related malicious URLs. The Trend Micro Deep Discovery™ solution has an email inspection layer that can protect enterprises and users by detecting malicious attachments and URLs.

Trend Micro Email Security delivers continuously updated protection to stop spam, malware, spear phishing, ransomware, and advanced targeted attacks before they reach the network. It protects Microsoft Exchange, Microsoft Office 365, Google Apps, and other hosted and on-premises email solutions.

Phish Insight provides the most effective phishing simulations and cybersecurity awareness training modules on the market. Powered by Trend Micro, the Phish Insight team creates a simulation template library based on billions of real phishing samples as well as a fully automated and staggered delivery system that makes the simulation emails even more convincing. Not only integrating the best and the most prevalent training modules from around the world, Phish Insight also allows users to customize their own training programs. Phish Insight enhances information security awareness for organizations by empowering people to recognize and protect themselves against the latest cyber threats.

Indicators of Compromise (IOCs)

BazarCall

SHA256	Detection
056809e596895320397378f7f3ff4958107e48f4890a960229dcfbc32b7379b7	Trojan.X97M.BAZAR.YABCZ
0606be9a1e3e32dc452cdd0ee48c3cecdb045545fa01789f580c197cefd220a4	Trojan.X97M.BAZAR.YABCY

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fc3d3e2e605e76289cecb3612bd000471e613bf8841cc4e9c6b9f47b527a3d6a	Trojan.X97M.BAZAR.YABCZ

fd93b2dd5067d6933d9d06878c75b53bdba8756f092c4ccb1e9ce881bb1ec85c	Trojan.X97M.BAZAR.YABCY
fee876283fdd75a8ea08d19c15e9c78755a8cc3135d157609097d2b249e0e7fc	Trojan.X97M.BAZAR.YABCY

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- hxxps://35[.]168[.]81[.]240
- hxxps://52[.]167[.]249[.]196
- hxxps://52[.]90[.]97[.]160

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SHA256	Detection name
219e7715d364c0a46c667bdb93b05776f257da38028cbaa5a504873eb166315a	Trojan.XF.ICEDID.THCCABA
89756db6627e4c3ab511a0a6efe68dcfb6bec881c4942331dc95d53435e8f38b	Trojan.Win64.ICEDID.THCCABA
8de416bd5b7913a0f58610c56f0fdb293873a069522024f281c2e0106fd74042	Trojan.XF.ICEDID.THCCABA
a1411ad0725807a327258b5520ac7c1b709878ca84a6d2ee1d7a9913833b7429	Trojan.Win64.ICEDID.THCCABA
a1411ad0725807a327258b5520ac7c1b709878ca84a6d2ee1d7a9913833b7429	Trojan.Win64.ICEDID.THCCABA
a2fcccd77c387840adb0de73b7361fa8a230c4a50ef309c1353fb499004272fb	Trojan.XF.ICEDID.THCCABA
cb5864f279f49a06becdbcc287925d6073a4b72798daba165433a75d2bb3b0f9	Trojan.Win64.ICEDID.THCCABA
2f0dc07dc3a2ca82ee1ba3c92c83c1702d1dea8fe363d4f224b399377ab50e51	Trojan.Win64.ICEDID.THCCABA
442b31da9f6c4ffedd0a0d40a725c966a3c25284a0903ef40e2d0aa6bd8bfdaa	Trojan.Win64.ICEDID.THCCABA
47eafc7cbd120f040b93ce9e682de907f3a9fe8a78ec187f5af48039fd55ce5f	Trojan.XF.ICEDID.THCCABA
54efde21d125c3f0d057e89c4c10960d925b14253b59cfbbcda03a7e9d80fabc	Trojan.XF.ICEDID.THCCABA
56b6eaacab819f6199b96b06510eebeb30f99adcd559e3c87111a18d1ca6ed76	Trojan.Win64.ICEDID.THCCABA
6d7751eb2aea2a561e5e33a951cc43d70b1f0c20054b60b8f1004aa36dc4dccc	Trojan.XF.ICEDID.THCCABA
89756db6627e4c3ab511a0a6efe68dcfb6bec881c4942331dc95d53435e8f38b	Trojan.Win64.ICEDID.THCCABA
9052448c8250fdf0b739d16b30d8d6807b1223a7e919d4f1f09a4ba5f847e74a	Trojan.Win64.ICEDID.THCCABA
9cbf18d067a292361999b12af131ebf575d1d8acf21a58e55b2837a3621aeb2f	Trojan.Win64.ICEDID.THCCABA

a2e4dc07cc85543b86e7c46887e7f96626e2cd9993e0787daa7b963a7e1b324c	Trojan.Win64.ICEDID.THCCABA
ba54ae65803b5c842dbb86a7ac72167906d3d22332c7aa56f2b6b4a337a9aabb	Trojan.Win64.ICEDID.THCCABA
c0768ee6bd8a1d5a5435e2839eb54f8b6d1a120a323c51c679070a22e550b1d5	Trojan.XF.ICEDID.THCCABA
d258d95c4ca5e71cf03f7952bb53876a730c12f3def5918beb3862aacc39f0d6	Trojan.XF.ICEDID.THCCABA
d86405130184186154daa4a5132dd1364ab05d1f14034c7f0a0cda690a91116d	Trojan.XF.ICEDID.THCCABA
df4fb2147efad93deb6fbc74545bb346ff2e719f7b77830988ca15df28857a21	Trojan.Win64.ICEDID.THCCABA
e0f75a7b2d229eca6028061fe23483acd46c565b6d0e6dfa38148ad079f94aa7	Trojan.Win64.ICEDID.THCCABA
e8ad149f6e754162432b1040443269ed078d2ab027f3e93ae4b4ff8801ac8760	Trojan.Win64.ICEDID.THCCABA
eb9981fb381d6b252c1fce45b95baec5b563897b82ccc855f482f73e64e6ed46	Trojan.Win64.ICEDID.THCCABA
f8b7283ffc3cbc94cdfa193d833497c7f32611f97963a15f1ee9e4d07cc87b67	Trojan.Win64.ICEDID.THCCABA
fb7b725d0d1b47564070e0f10e237baf1f27d6f86afa11f163ae9692c85f2638	Trojan.Win64.ICEDID.THCCABA

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