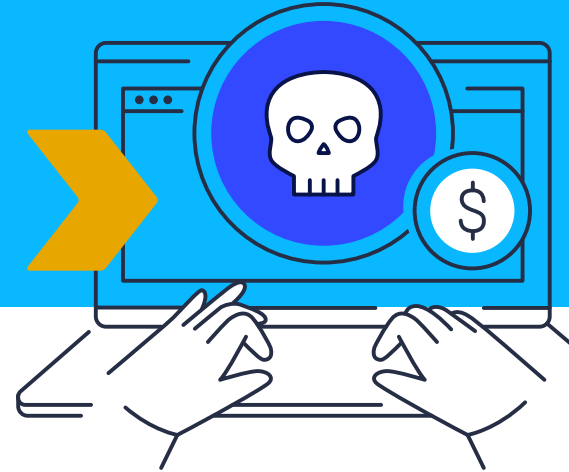


HOW WE SCAMMED THE TAX SCAMMERS

BEC Group Attacks CPA's and Law Firms Using Trojans to Steal Tax Data

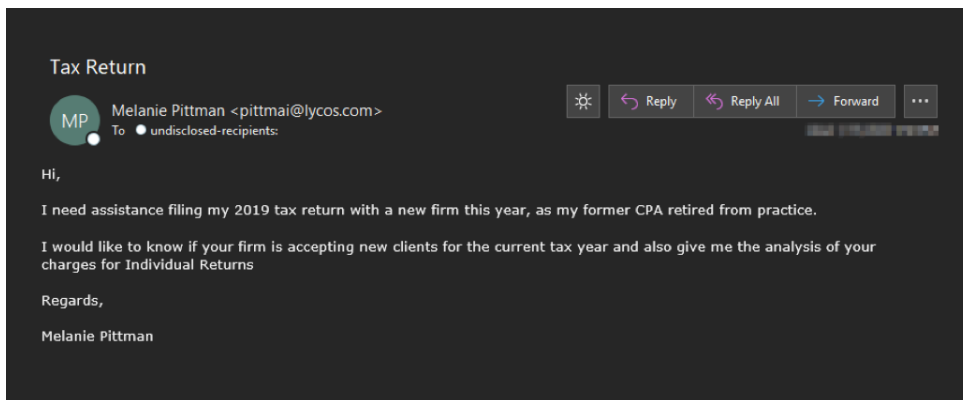
A threat group is actively targeting CPA's and law firms in an attempt to steal valuable customer tax information. These cyber-criminals leverage the stolen information to perpetuate ongoing Business Email Compromise (BEC) attacks and to file fraudulent tax returns on behalf of unknowing victims.



Over the past month Zix and AppRiver Advanced Email Security rules targeting BEC scams began matching eerily similar tax inquiry messages to multiple CPA and law firm clients. The emails request information about pricing, and seek to determine whether the recipient is accepting new clients. We believe this social engineering attempt serves as a leading indicator of how fraudulent returns are likely to be filed with the IRS this season. Our Security Analysts team decided to engage the attackers in order to gather additional intelligence related to the scheme, and subsequently has uncovered the tactics these attackers are using to carry out fraudulent activity for BEC and tax fraud.

The Initial Message

The message below is the beginning of one of the initial tax scam attempts. It inquires whether the firm is accepting new clients and seeks to uncover how much they charge for individual returns.

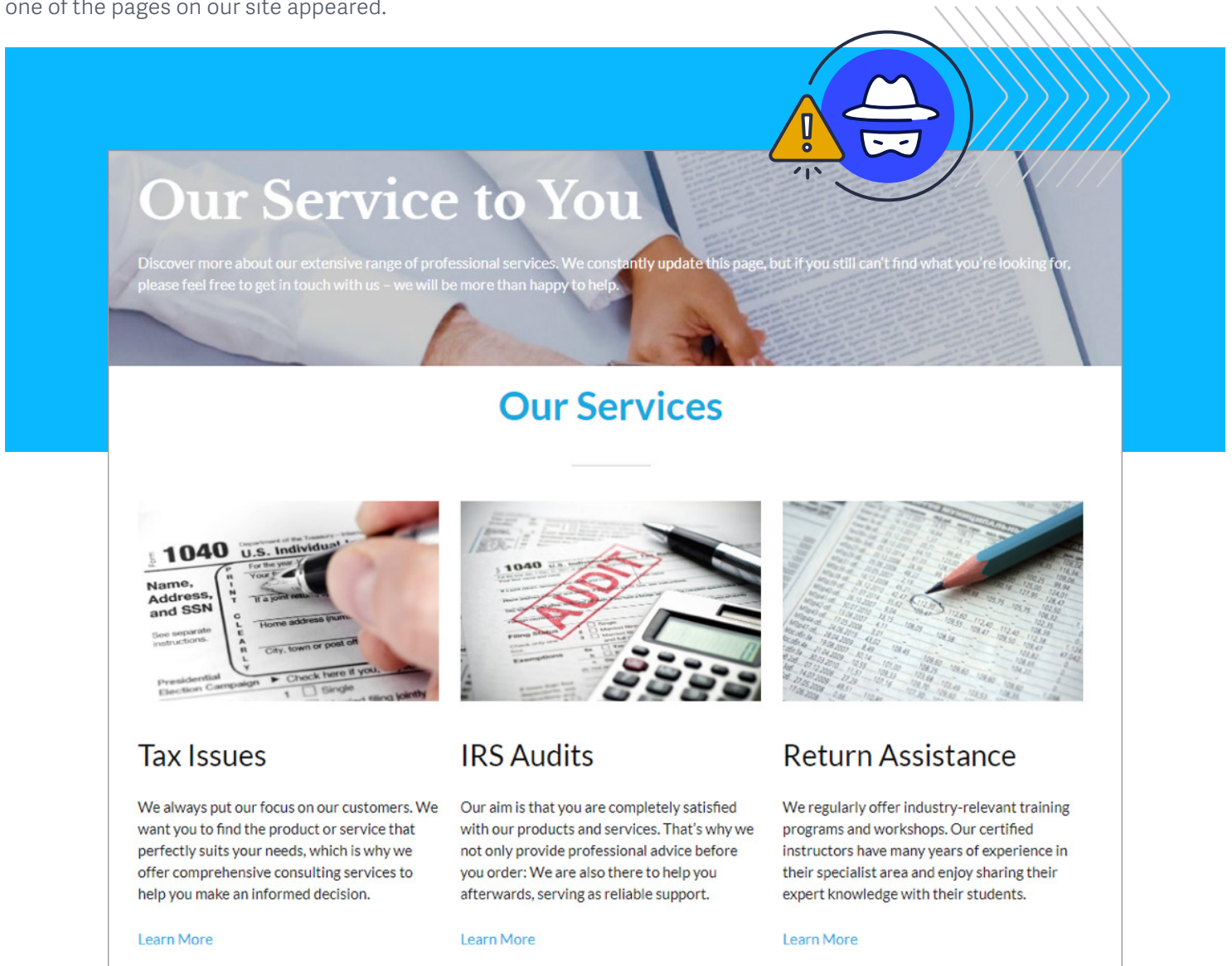


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Setting Up a Cover Domain & Site


In order to help us convince the attackers, we quickly created a convincing CPA domain and set up a website for it to use as a cover. Below is a snippet of how one of the pages on our site appeared.



Our Service to You

Discover more about our extensive range of professional services. We constantly update this page, but if you still can't find what you're looking for, please feel free to get in touch with us - we will be more than happy to help.


Our Services



Tax Issues

We always put our focus on our customers. We want you to find the product or service that perfectly suits your needs, which is why we offer comprehensive consulting services to help you make an informed decision.


[Learn More](#)



IRS Audits

Our aim is that you are completely satisfied with our products and services. That's why we not only provide professional advice before you order: We are also there to help you afterwards, serving as reliable support.

[Learn More](#)



Return Assistance

We regularly offer industry-relevant training programs and workshops. Our certified instructors have many years of experience in their specialist area and enjoy sharing their expert knowledge with their students.

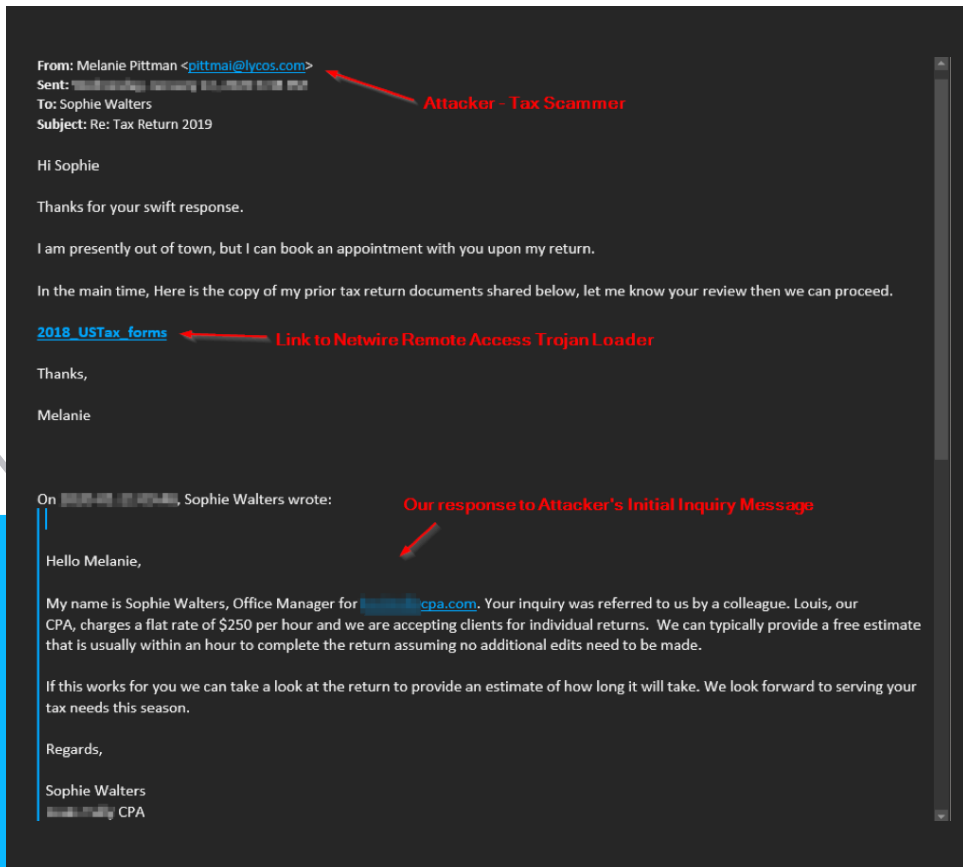
[Learn More](#)

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Responding to the Attackers

With the stage set, we responded to the initial inquiry message made on our fictitious CPA domain. As hoped, our team received a response the next day in the form of a reply containing a malicious link purporting to be 2018 tax return documents for us to review. As shown below, this led to a newly created site (melainepitmanestates[,]com) containing a .doc file named 2018_PitMan_USTax.doc.



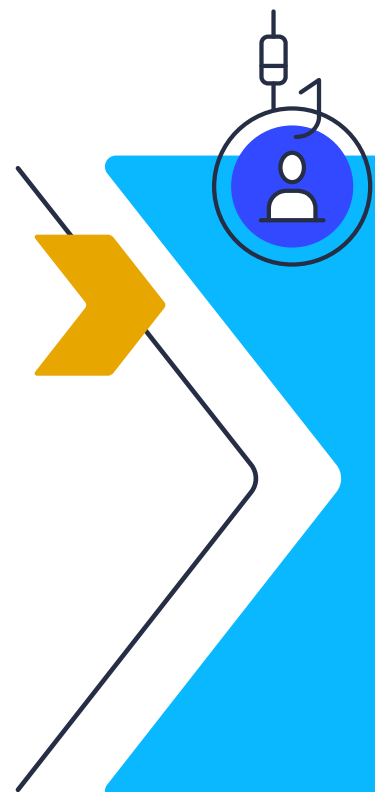
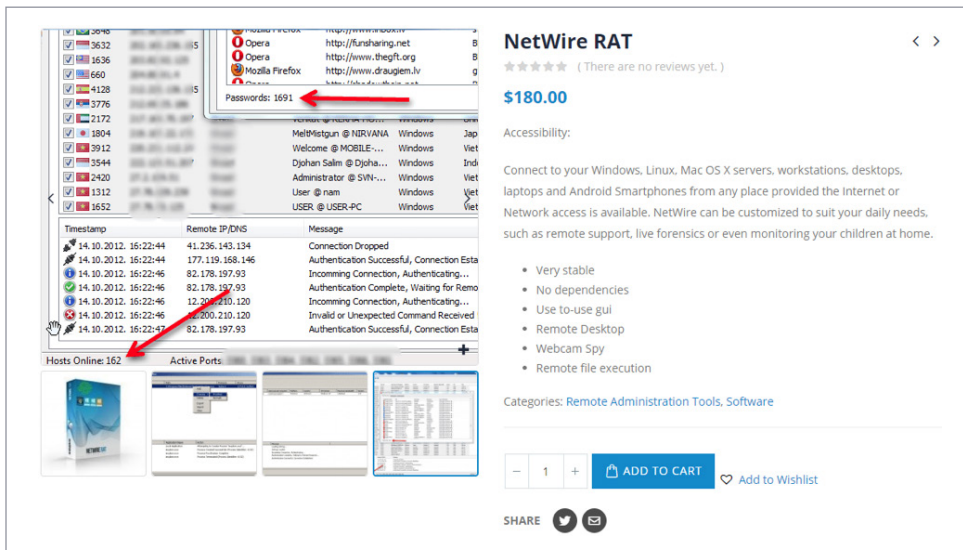
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Netwire Rat

The executable file turned out to be the Netwire Remote Access Tool that was first noted in 2012. This RAT provides features such as remote access, password stealing, keylogging, screen capture and webcam access, and is widely sold and distributed among threat actors. Cracked versions are also widely available across the net. Keeping with the Melanie Pittman (attackers' alias) theme, this example used the recently registered domain of melpittmancosmetics[.]com as its command and control site.

The Netwire Remote Access Trojan allows these attackers to exfiltrate customer tax data from the targeted CPA's and law firms that can then be used to commit identity theft tax refund fraud. In addition, the stolen data provides substantial intelligence such as business contacts, emails, invoicing and funds transfer procedures, along with other confidential information that can be leveraged or sold for additional malware and BEC attacks.



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IRS Identity Theft Advice

While the IRS has been implementing new [fraud filters](#) to thwart this activity, there are still windfall profits to be made. Between January 1st and September 30th, 2019, they [prevented \\$2.7 billion in refunds](#) from being issued to fraudsters. The IRS also maintains a page containing [warning signs](#) and IRS [Publication 5027](#) details steps to take if you are a victim. The IRS advises taxpayers to, "Be alert to possible tax-related identity theft if:

- You get a letter from the IRS inquiring about a suspicious tax return that you did not file.
- You can't e-file your tax return because of a duplicate Social Security number.
- You get a tax transcript in the mail that you did not request.
- You get an IRS notice that an online account has been created in your name.
- You get an IRS notice that your existing online account has been accessed or disabled when you took no action.
- You get an IRS notice that you owe additional tax or refund offset, or that you have had collection actions taken against you for a year you did not file a tax return.
- IRS records indicate you received wages or other income from an employer you didn't work for."

Indicators of Compromise

DROPPED EXECUTABLE FILE:

trphostwire_3FC9.exe
sha256
5b7d44bc506ab759786f79b8ffc350ae6078f5e2
506406e84b3aeb93b3ee6879

FILE VERSION INFORMATION:

Product	Nonmetropolitan3
Original Name	epididymises.exe
Internal Name	epididymises
CompanyName	WOrderware
File Version	1.00.0007

DNS REQUESTS:

domain	melanierncare[.]com
domain	melpittmancosmetics[.]com
domain	www.lavidalocatrp[.]com
domain	melainepitmanestates[.]com

CONNECTIONS:

ip	185.222.202[.]91
ip	151.139.128[.]14
ip	185.163.45[.]203

