



# Cyber for Small Businesses: Coverage, Misconceptions, and Common Threats

Tuesday, December 10<sup>th</sup> @ 11 AM Eastern



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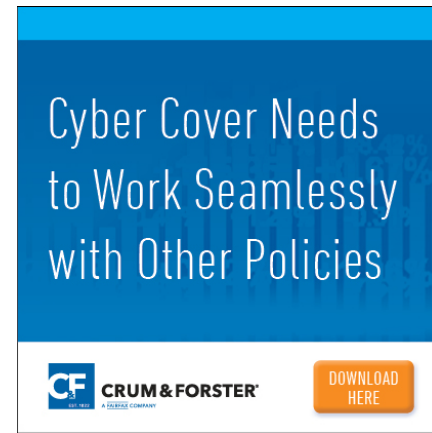
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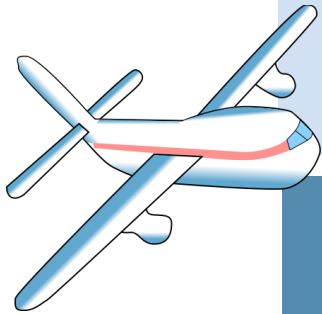


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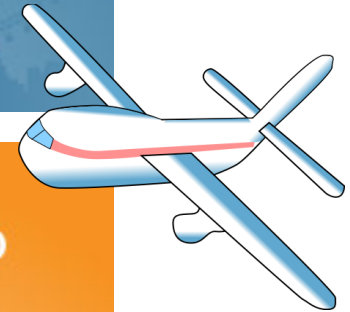
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# Today's Moderator



**Josh Bradford**

Senior Editor, Specialty Editorial  
Advisen

Contact at [jbradford@advisen.com](mailto:jbradford@advisen.com)



# Today's Panelists



**Richard Anderson**

Acting Supervisory Special Agent  
FBI, Cincinnati Field Office



**Mike Dockery**

Chief Information Security Officer,  
The Cincinnati Insurance Companies



**Steve Ventre**

Senior Vice President, Management  
Liability & Surety,  
The Cincinnati Insurance Companies



# Detect and Prevent Ransomware

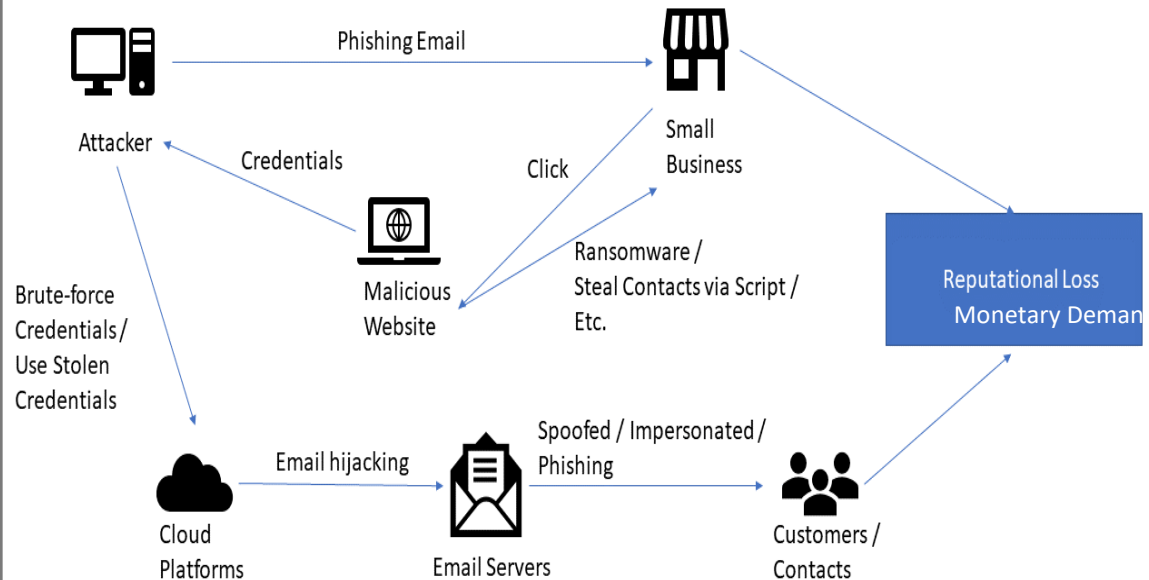
Steve Ventre, CPCU  
Senior Vice President – Management Liability & Surety

Mike Dockery, CISSP  
Vice President – Information Security Office



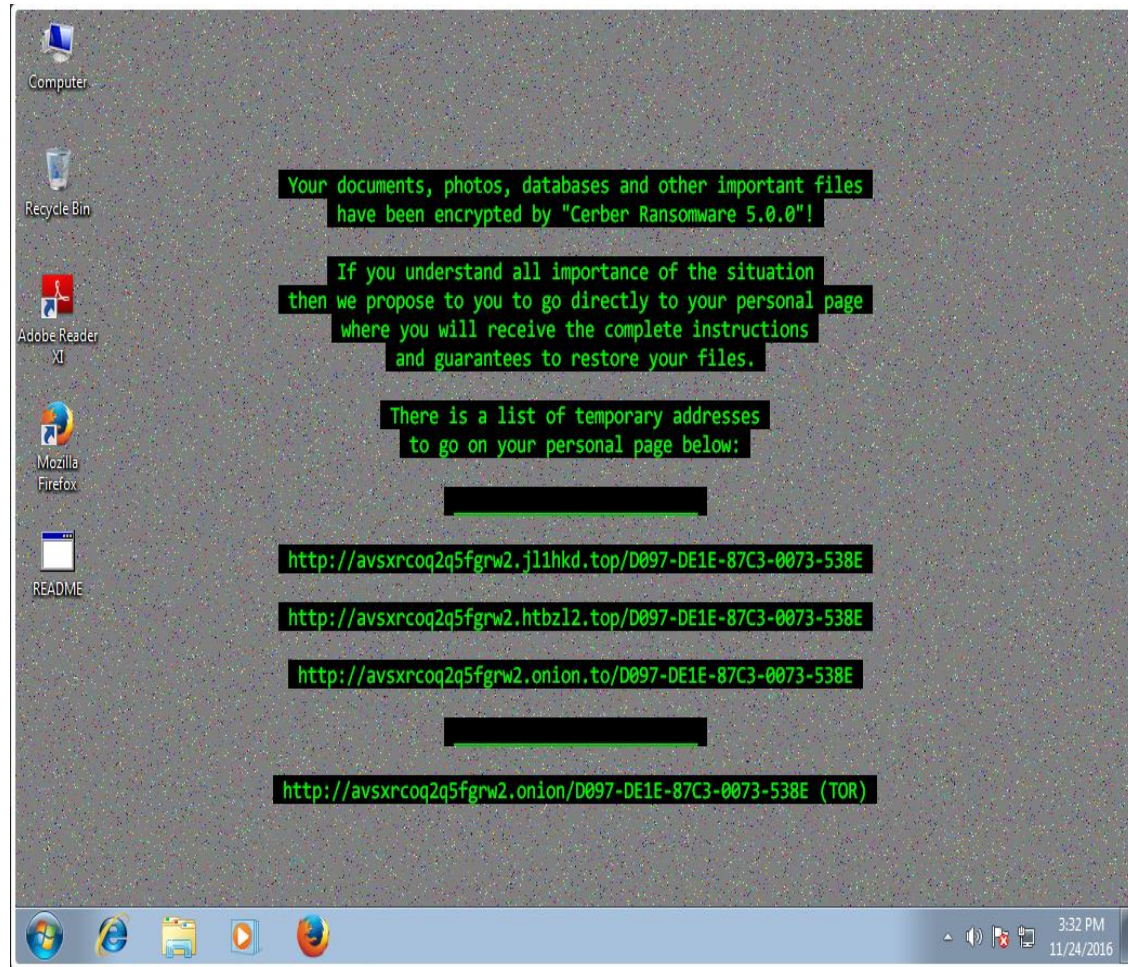
# Typical steps in a ransomware attack

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# What does ransomware look like?

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# Sample ransomware email

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I am a spyware software developer.  
Your account has been hacked by me in the summer of 2019.

The hacking was carried out using a hardware vulnerability through which you went online (Cisco router, vulnerability CVE-2019-12643).

I went around the security system in the router, installed an exploit there.  
When you went online, my exploit downloaded my malicious code (rootkit) to your device.  
This is driver software, I constantly updated it, so your antivirus is silent all time.

Since then I have been following you (I can connect to your device via the VNC protocol).  
That is, I can see absolutely everything that you do, view and download your files and any data to yourself.  
I also have access to the camera on your device, and I periodically take photos and videos with you.

At the moment, I have harvested a solid dirt... on you...  
I saved all your email and chats from your messangers. I also saved the entire history of the sites you visit.

I note that it is useless to change the passwords. My malware update passwords from your accounts every times.

I know what you like hard funs (adult sites).  
Oh, yes .. I'm know your secret life, which you are hiding from everyone.  
Oh my God, what are your like... I saw THIS ... Oh, you dirty naughty person ... :)

I took photos and videos of your most passionate funs with adult content, and synchronized them in real time with the image of your camera.  
Believe it turned out very high quality!

So, to the business!  
I'm sure you don't want to show these files and visiting history to all your contacts.

Transfer \$983 to my Bitcoin cryptocurrency wallet: 1CDKlgab6xUnAwP5q5x3jdDy89788t2iCZ  
Just copy and paste the wallet number when transferring.  
If you do not know how to do this - ask Google.

My system automatically recognizes the translation.  
As soon as the specified amount is received, all your data will be destroyed from my server, and the rootkit will be automatically removed from your system.  
Do not worry, I really will delete everything, since I am 'working' with many people who have fallen into your position.  
You will only have to inform your provider about the vulnerabilities in the router so that other hackers will not use it.

Since opening this letter you have 48 hours.  
If funds not will be received, after the specified time has elapsed, the disk of your device will be formatted, and from my server will automatically send email and sms to all your contacts with compromising material.

P.S. Do not try to contact me (this is impossible, sender's address was randomly generated).

I advise you to remain prudent and not engage in nonsense (all files on my server).

Good luck!

# Resource Links

## Ransomware in the News

<https://statescoop.com/tag/ransomware/>

## FTC Protecting Small Business

<https://www.ftc.gov/tips-advice/business-center/small-businesses>

<https://www.ftc.gov/tips-advice/business-center/privacy-and-security/data-security>

## Choosing an IT Provider

[https://www.independentagent.com/ACT/SiteAssets/Pages/planning/SecurityPrivacy/Cyberguide2/18ACT\\_CyberGuide2\\_FINAL.pdf](https://www.independentagent.com/ACT/SiteAssets/Pages/planning/SecurityPrivacy/Cyberguide2/18ACT_CyberGuide2_FINAL.pdf)

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**Josh Bradford**  
Advisen



**Richard Anderson**  
FBI



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The Cincinnati Insurance  
Companies



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# Thank you, panelists!



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