



New Trends in Cyber Incident Response and Forensics

Matt Durrin IR Technical Lead LMG Security Sherri Davidoff CEO LMG Security

Who Are We?



New Book! Ransomware Response

Sherri Davidoff

Founder & CEO, LMG Security Training: Black Hat, FDIC, ABA, & more "Alien" from "Breaking & Entering"

NEW BOOK! "Data Breaches"





Matt Durrin

Incident Response Technical Lead

Black Hat Instructor

Research & Development

Evil, sometimes.





New Trends in Cyber Incident Response and Forensics

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REvil ransomware hits US nuclear weapons contractor

By Lawrence Abrams





{* SECURITY *}

The latest REvil ransomware <u>victim? S</u>ol Oriens. Oh, a US

JBS and Colonial Pipeline hacks highlight how large food and energy companies have become prime targets

- Industry consolidation has created a single point of failure for major food and energy companies as hackers seek the largest payouts possible
- Any downtime for large companies critical to food and energy supplies could cost millions of dollars, increasing the likelihood they will meet demands

tims 'no current indication' topvas plundered

veapons contractor



Today's Roadmap

- Supply-chain incident tips & tricks
- Mass 0-day exploits, such as the recent Exchange vulnerability
- How to manage remote worker compromise
- Integrating threat hunting into your response operations

JBS says it paid \$11 million ransom after cyberattack



By Brian Fung, CNN Business

Updated 8:08 PM ET, Wed June 9, 2021

5 MIN READ

https://www.bloomberg.com/news/articles/2021-05-31/meat-is-latest-c top-supplier-jbs

JBS USA, world's largest meat supplier, shuts down 9 beef plants after cyberattack; 'vast majority' of plants to open Wednesday

Brett Molina and Mike Snider USA TODAY Published 5:17 p.m. ET Jun. 1, 2021 Updated 9:32 p.m. ET Jun. 1, 2021

Are Ransomware Attacks on Critical Infrastructure Becoming a Cybercrime Trend? Meat Processing Giant JBS, Colonial Pipeline May Only Be the Beginning

SCOTT IKEDA · JUNE 7, 2021

NEWS

https://www.cnn.com/2021/06/09/busin



tps://whttps://www.usatoday.com/story/money/shopping/2021/06/01/jbs-cyberattack-worlds-largest-meat-supplier-closes-5-beef-plants/7493850002/attack-11-million/index. ©LMG Security 2021. All rights reserved. | www.LMGsecurity.com | 6



NEWS

Verizon DBIR shows sharp increase in ransomware attacks

According to Verizon's latest Data Breach Investigations Report, 60% of ransomware cases involved either direct installation or installation via desktop sharing software.

Alexander Culafi, News Writer

Ransomware Has Gone Corporate—and Gotten More Cruel

The DarkSide operators are just the latest group to adopt a veneer of professionalism —while at the same time escalating the consequences of their attacks.



enzon-DBIK-Snows-Snarp-increase-in-ransomware-attacks

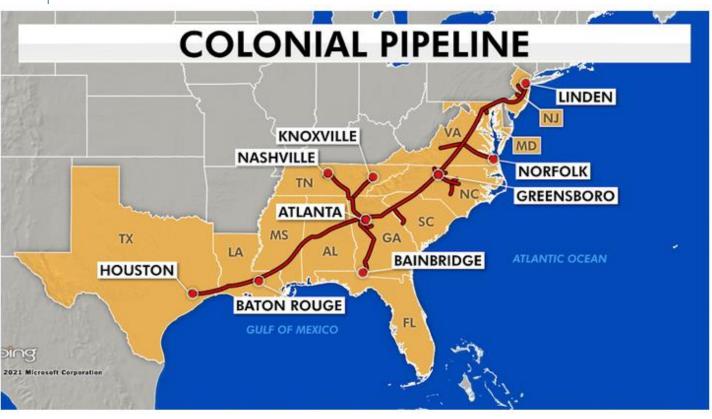
Colonial Pipeline Attack

Panic Drives Gas Shortages After Colonial Pipeline Ransomware Attack

May 11, 2021 · 10:21 PM ET



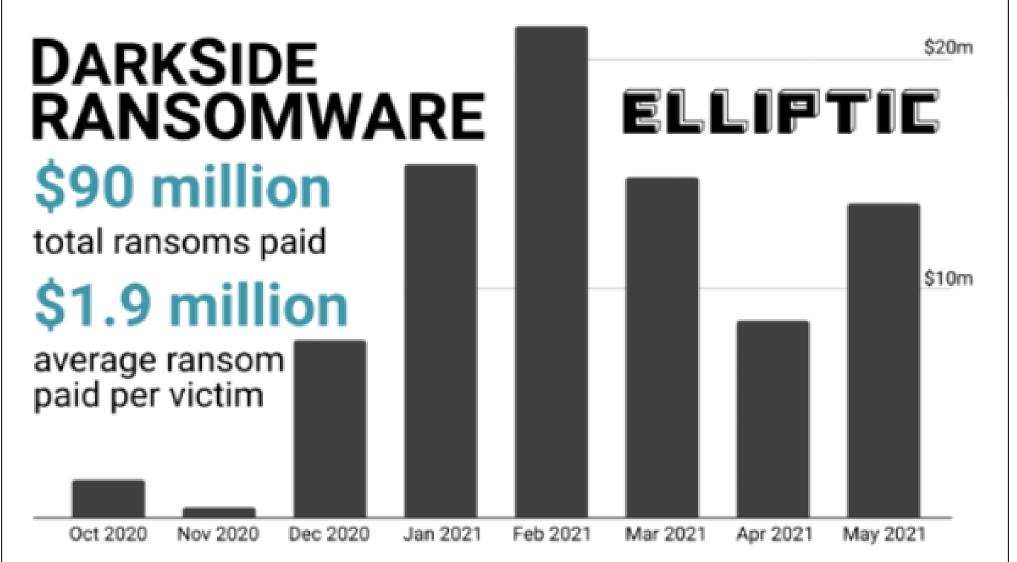




Colonial Pipeline stretches along the East Coast. (Fox News)

ess.com/energy/colonial-pipeline-shutdown

Who Were the Hackers?



https://www.elliptic.co/blog/darkside-ransomware-has-netted-over-90-million-in-bitcoin

Ransomware as a Franchise

CYBERSECURITY

Hacker group DarkSide operates in a similar way to a franchise, New York Times reporter says

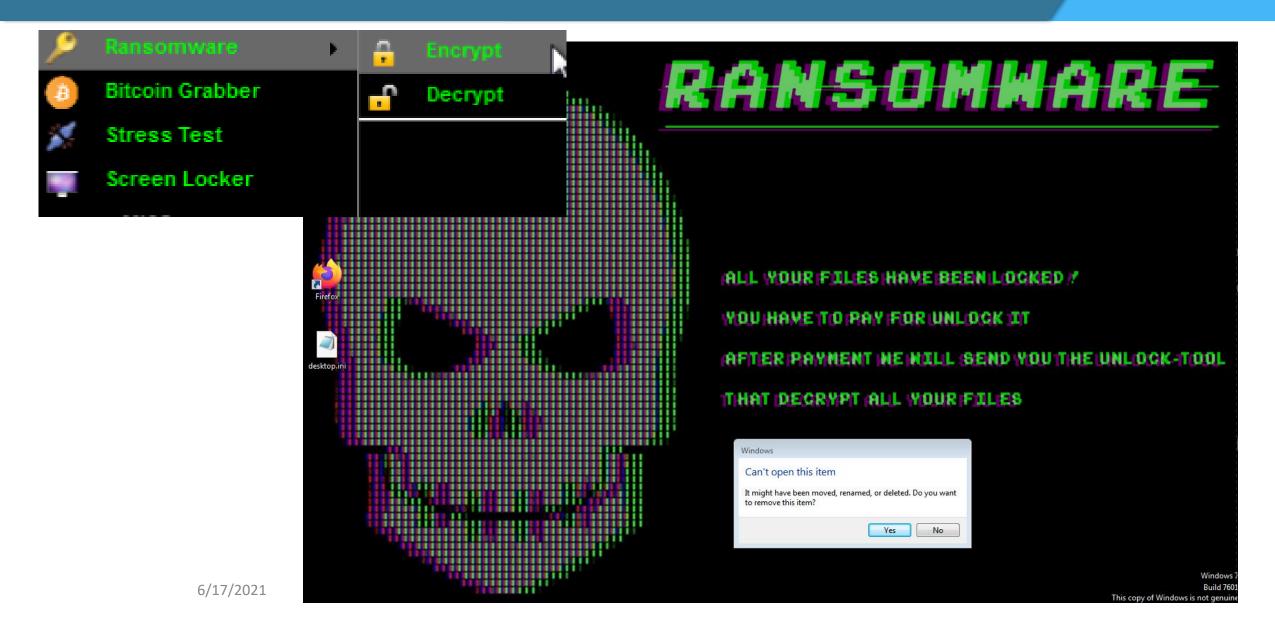
PUBLISHED WED, JUN 2 2021+7:17 PM EDT | UPDATED WED, JUN 2 2021+7:19 PM EDT

Emily DeCiccio @EMILYDECICCIO

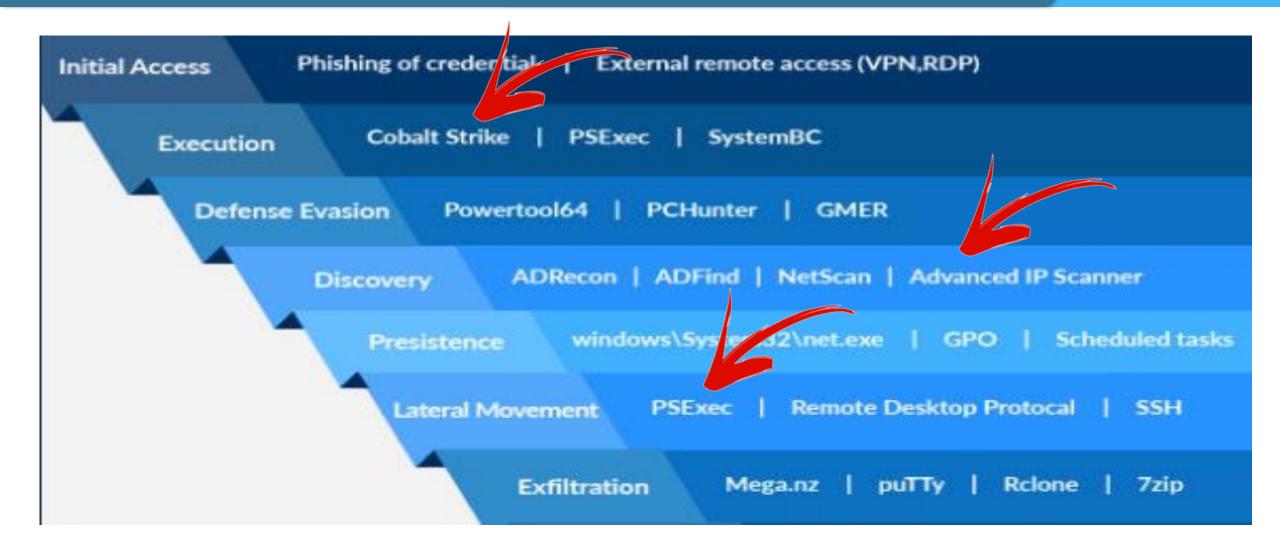
https://www.cnbc.com/2021/06/02/h acker-group-darksides-operates-in-asimilar-way-to-a-franchise-new-yorktimes-reporter-says.html "It operates something like a franchise, where individual hackers can come and receive the ransomware software and use it, as well as, use DarkSide's reputation, as it were, to extract money from their targets, mostly in the United States," New York Times correspondent Andrew Kramer says.

~~

Point-and-Click Ransomware



Darkside's Methodology



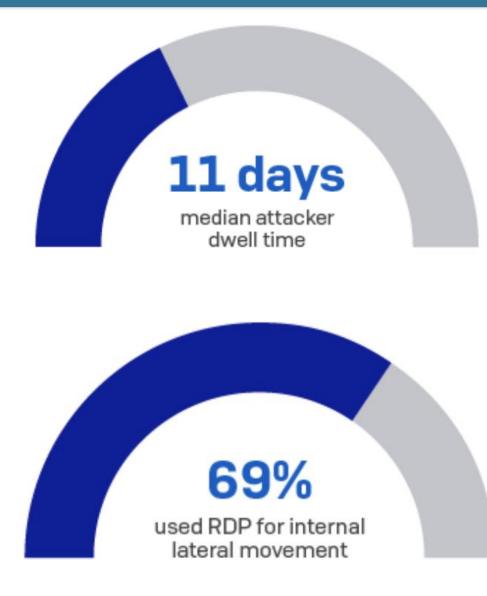
https://twitter.com/cyberwarfarelab/status/1393961644657569797/photo/1

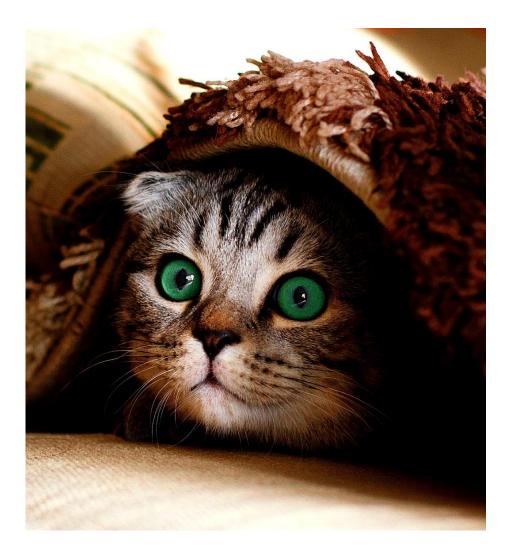
Legitimate Tools, Criminal Use



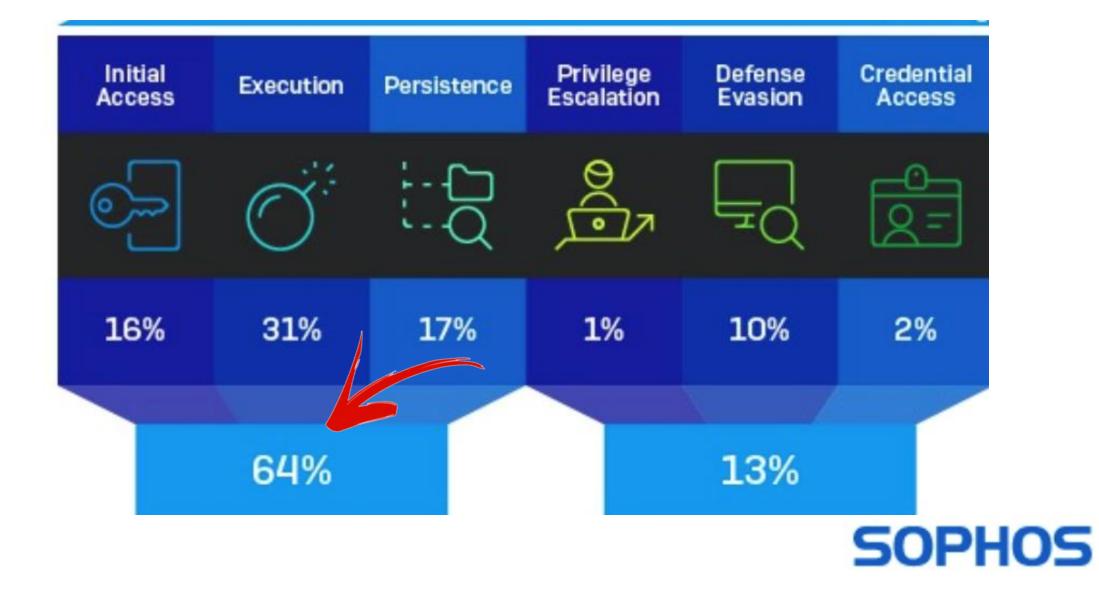
https://www.darkreading.com/attacks-breaches/cobalt-strike-becomes-a-preferred-hacking-tool-by-cybercrime-apt groups/d/d-id/1341073

The Attackers Lurk...

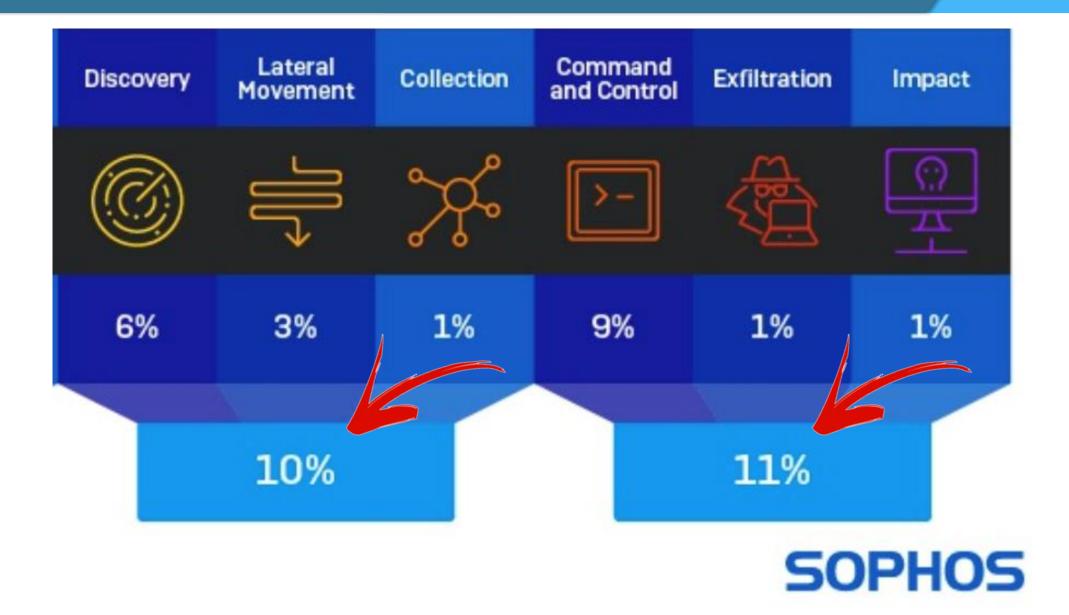




What are the Attackers Doing?



What are the Attackers Doing?





Threat Hunting

- Proactive, human-driven
- Specialized tools
- Search for subtle indicators of compromise
- Find and eradicate persistent threats
- Prevent repeat ransomware infections



Colonial Pipeline Paid the Ransom

Blo	omberg the Company & Its Products 🔻	Bloomberg Terminal Demo Request 🛛 🐺 Bloomberg Anywhere Remote Login 👋 Bloomberg Customer Support	Bloomberg Terminal Demo Request	
<u></u> Menu	Q Search	Bloomberg		

Cybersecurity

Colonial Pipeline Paid Hackers Nearly \$5 Million in Ransom Colonial Pipeline @Colpipe · 10h

By William Turton, Michael Riley, and Jennifer Jacobs May 13, 2021, 8:15 AM MDT Updated on May 13, 2021, 5:01 PM MDT

Payment came shortly after attack got underway last week

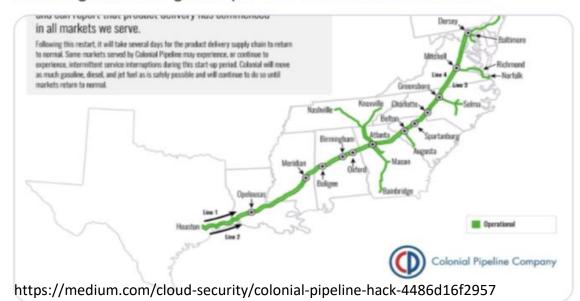
FBI discourages organizations from paying ransom to hackers

https://www.bloomberg.com/news/articles/2021-05-13/colonial-pipeline-paid-hackersnearly-5-million-in-ransom



As we previously reported, Colonial Pipeline initiated the restart of pipeline operations at approximately 5 p.m. ET on Wednesday, May 12. Since that time, we have returned the system to normal operations, delivering millions of gallons per hour to the markets we serve.

Sign In



Hackers with Morals?

Based on our principles, **while not attack the following targets**:

- Medicine (only: hospitals, any palliative care organization, nursing homes, companies that devel COVID-19 vaccine).
- Funeral services (Morgues, crematoria, funeral homes).
- Education (schools, universities).
- Non-profit organizations.
- Government sector.

We only attack companies that can pay the requested amount, we do not want to kill your business. Before any attack, we carefully analyze your accountancy and determine how much you can pay based You can ask all your questions in the chat before paying and our support will answer them.

Problems in Paradise

DarkSide Leaks

Panic Drives Gas Shortages After Colonial Pipeline Ransomware Attack

May 11, 2021 · 10:21 PM ET

About the latest news.

We are apolitical, we do not participate in geopolitics, **do not need** to tie us with a defined goverment and look for other our **Our goal is to make money, and not creating problems for society.**

From today we introduce moderation and check each company that our partners want to encrypt to avoid social consequence:



... Trouble on the Darkside

DarkSide Ransomware Gang Quits After Servers, Bitcoin Stash Seized

May 14, 2021

The DarkSide ransomware affiliate program responsible for the six-day outage at Colonial Pipeline this week that led to fuel shortages and price spikes across the country is running for the hills. The crime gang announced it was closing up shop after its servers were seized and someone drained the cryptocurrency from an account the group uses to pay affiliates.

"Servers were seized (country not named), money of advertisers and founders was transferred to an unknown account," reads a message from a cybercrime forum reposted to the Russian OSINT Telegram channel.

https://krebsonsecurity.com/2021/05/darkside-ransomware-gang-quits-after-servers-bitcoin-stash-seized/

Russian OSINT

🛤 DarkSide CLOSED

Servers were seized (country not named), money of advertisers and founders was transferred to an unknown account. Ransom topics will be removed from the forums.

REvil's comment from the exp: In connection with the recent events in the USA, sorry for being straightforward, DarkSide Ransomware, a quote from the previously named PP:

Since the first version, we promised to speak honestly and openly about the problems. A few hours ago, we lost access to the public part of our infrastructure, namely: the

Blog. Payment server. DOS servers.

Now these servers are unavailable via SSH, the hosting panels are blocked. Hosting support, apart from information "at the request of law enforcement agencies", does not provide any other information.

Also, a few hours after the withdrawal, funds from the payment server (ours and clients') were withdrawn to an unknown address.

Criminals Overreach...

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BABUK

PD last part (all data) UPD

More DC Metro Police Data



ATTENTION!!!

We have never attacked hospitals, orphanages, nursing homes, charitable foundations, and we will not.

Commercial pharmaceutical organizations are not eligible for this list;

they are the only ones who benefit from the current pandemic.

If an attack mistakenly occurs on one of the foregoing organizations, we will provide the decryptor for free, apologize and help fix the vulnerabilities.

Darkside On Trial

DarkSide Getting Taken to 'Hackers' Court' For Not Paying Affiliates



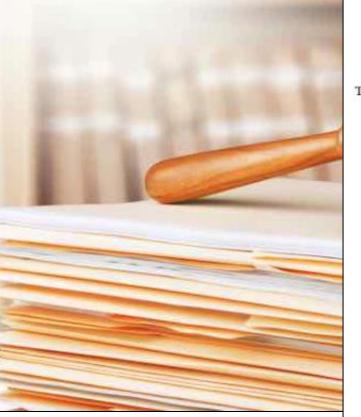
Author: Becky Bracken May 21, 2021 / 2:41 pm

3 minute read

Write a comment

Share this article:





https://threatpost.com/darkside-hackers-court-paying-affiliates/166393/

DarkSide partners demand their promised share of the ransoms

13:54 / May 21, 2021

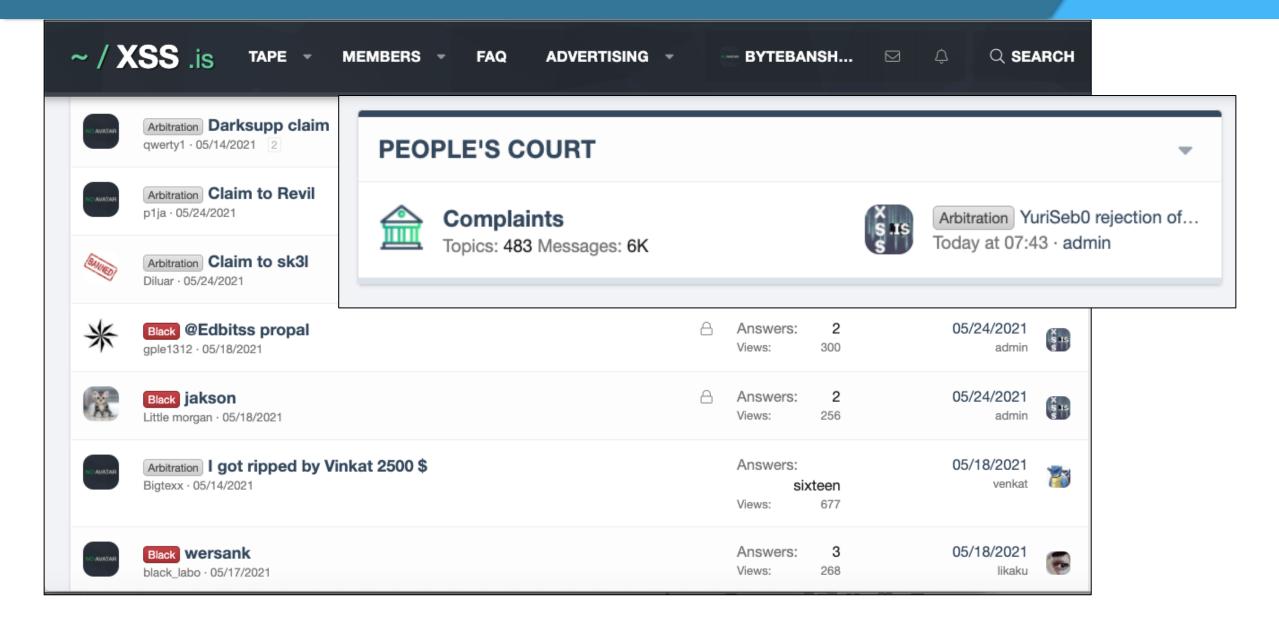
DarkSide ransomware

The partners have made a claim for bitcoins stored on a hacker forum.



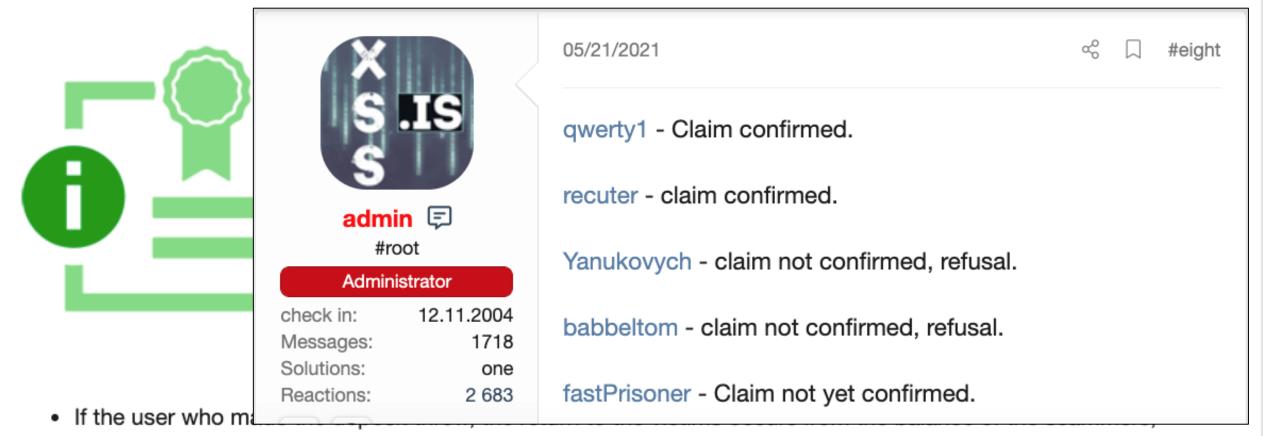
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XSS.is: The Russian Hacker Court



Escrow Rules for XSS.is

Deposit HERE . Depositing and withdrawing a deposit is automated.



dividing proportionally between the victims in a% ratio. Consideration of the return process takes place directly in black, within 7 days. Exclusively the administrator (arbitrator) deals with the consideration and payment;

US seizes \$2.3 million Colonial Pipeline paid to ransomware attackers

Funds seized after Justice Department IDs Bitcoin wallet and obtains its private key.

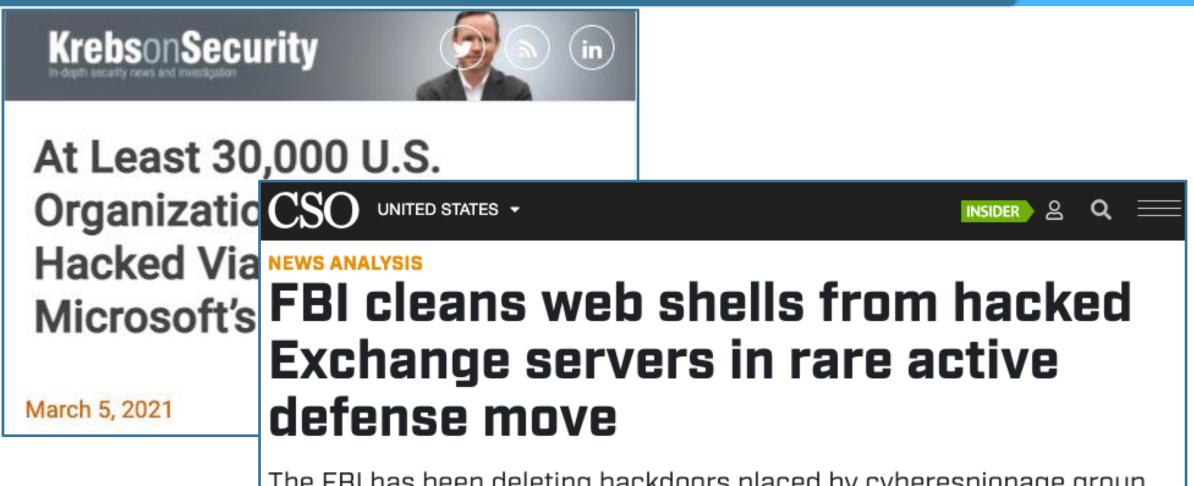
DAN GOODIN - 6/7/2021, 4:25 PM



On Monday, the US Justice Department said it had traced 63.7 of the roughly 75 bitcoins Colonial Pipeline paid to DarkSide, which the Biden administration says is likely located in Russia. The seizure is remarkable because it marks one of the rare times a ransomware victim has recovered funds it paid to its attacker. Justice Department officials are counting on their success to remove a key incentive for ransomware attacks—the millions of dollars attackers stand to make.

COLONIAL PIPELINE

Law Enforcement Intervention



The FBI has been deleting backdoors placed by cyberespionage group Hafnium on Microsoft Exchange servers. The court order allowing them to do so signals a more active defense approach.

US to treat ransomware like terrorism



June 7, 2021

KEYWORDS cyber security /

The U.S. Department or of ransomware attacks official told Reuters.

ransomware, it's most certainly not an act of terrorism. However, if they take down critical infrastructure such as an oil pipeline or water system then it is. It's more about the target of the attack and the meaning and intention than it is about the type of attack.

https://www.securitymagazine.com/articles/ @LMG Security 2021: All Jights rederved. Source 2021: All Jights

Nuclear Option

SPEED READS			
sunday shows Energy secretary says she'd support law banning ransomware payments			
JUNE 6, 2021 TIM O'DONNELL			
Energy Secretary Jennifer Granholm <u>told CNN's Jake Tapper</u> Sunday that she believes adversaries of the United States have the capability to shut down the power grid and thinks "there are very malign actors who are trying even as we speak."			

MEET THE PRESS

Energy secretary backs ban on ransomware payments: 'You are encouraging the bad actors'

"We need to send this strong message that paying a ransomware only exacerbates and accelerates the problem," Jennifer Granholm said on "Meet the Press."

Criminals are "Undeterred"

- The gang member said current U.S. legislation, if passed, that would restrict ransomware victims from paying a ransom, would not be a deterrent for future attacks.
- The group is not afraid of being considered terrorists.
- The group originally restricted U.S. targets in cyberattacks.

In the interview the anonymous REvil gang member said that in light of U.S. actions and posturing to retaliate for the JBS Foods attack, the group will now lift the restriction on attacking U.S. targets.



Potential Policy Shift

Cybersecurity

Lawmakers Say U.S. Cyber Ransom Payments Should Be Disclosed

By <u>Ros Krasny</u> and <u>John Gittelsohn</u> June 6, 2021, 9:16 AM MDT

Updated on June 6, 2021, 10:12 AM MDT

- Should discuss making payoffs to hackers illegal, Warner says
- Biden to raise attacks with Putin when they meet next week

"Not only are the companies often not reporting that they are attacked, but they're not reporting the ransomware payments," Warner said on NBC's "Meet the Press."



Increased Government Oversight



Home » Security Boulevard (Original) » The Establishment of a Cyber Safety Review Board

The Establishment of a Cyber Safety Review Board

by Richard Stiennon on May 18, 2021

DOJ Launches Ransomware and Digital Extortion Task Force

Home Healthcare Cybersecurity

DOJ Launches Ransomware and Digital Extortion Task Force

Posted By HIPAA Journal on Apr 23, 2021



New Executive Order

THE WHITE HOUSE



BRIEFING ROOM

Executive Order on Improving the Nation's Cybersecurity

MAY 12, 2021 • PRESIDENTIAL ACTIONS

By the authority vested in me as President by the Constitution and the laws of the United States of America, it is hereby ordered as follows:



Tech. Sgt. David Mooers and Senior Airman Mario Lunato, 2nd System Operations Squadron system administrators, access one of the core servers in the 557th Weather Wing (WW) enterprise at Offutt Air Force Base, Nebraska, April 27, 2018. (U.S. Air Force photo by Paul Shirk)

Cybersecurity Executive Order Includes New Contractor Requirements, FedRAMP Overhaul

May 13, 2021 — Bridget Johnson

Supplier Cybersecurity & Response

- Improve software supply chain Security
- Increase information sharing capabilities
- Modernize and implement stronger cybersecurity requirements for suppliers
- Default contractual requirements
- Improve supplier detection capabilities
- Formalize supplier response policies



Software Bill of Materials (SBOM)

- Provide SBOMs for all products in use
- Maintain supply chain and code integrity with automated tools
- Frequent checks for vulnerabilities
- Participate in a vulnerability disclosure program
- Maintain up-to-date data on code, components, and controls for both primary and third-party software for each application
- Audit and enforce controls

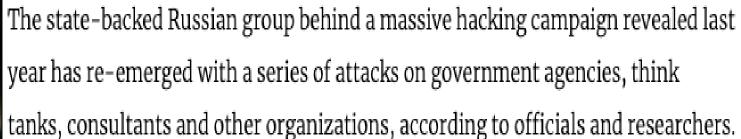




Russian SolarWinds Hackers Target 150 Organizations in New Attack







The Moscow Times

The SolarWinds attack has been connected to Russian state-backed hackers.

Christopher Schimer / Flickr (CC BY-SA 2.0)

https://www.themoscowtimes.com/2021/05/28/ russian-solarwinds-hackers-target-150organizations-in-new-attack-a74047

Solar Winds Update

INVESTIGATIONS

What Microsoft Officials Know About Russia's Phishing Hack Targeting USAID

May 28, 2021 · 6:34 PM ET Heard on All Things Considered



Microsoft officials say hackers linked to the Russian intelligence service, SVR, appear to have launched another supply chain attack — this time on a company that allowed the intruders to slip into the computer networks of a roster of human rights groups and think tanks.

Microsoft said it discovered the breach this week and believes it began with hackers breaking into an email marketing company called Constant Contact, which provides services to, among others, the United States Agency for International Development.

Once they had broken in, the hackers sent out emails that looked like they came from USAID. Those emails contained links, and when the recipients clicked on them, quietly loaded malware into their systems, allowing the hackers full access. They could

read emails, steal information and even plant additional malware for use later. https://www.npr.org/2021/05/28/1001367629/russian-hackers-launched-a-new-supply-chain-hack-this-time-they-phished

Adapt Your Response Processes

- Stay Up to Date on legislation & regulations
- Include suppliers/contractors
- Check your cloud logs/evidence
- Prepare for LE involvement
- Monitor your high risk scenarios
- Understand your insurance coverage
- Include remote workers/contractors





Case: Response w/ Remote Workforce

- Professional services firm
- ~50 employees
- ~300 contractors
- Remote access w/ VPN
- Policy against using personal devices
- ...but everybody did it

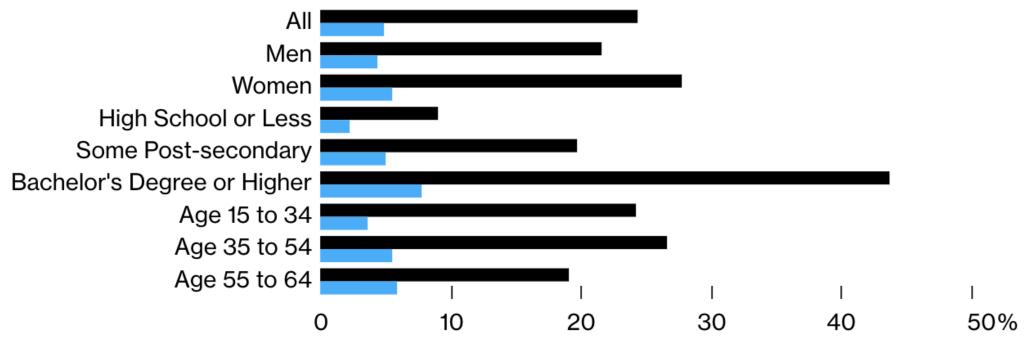




Out of Office

Nearly a quarter of hours worked could be remote after the pandemic

Estimated Share of Total Hours Worked From Home, Post-pandemic 2018



Source: Statistics Canada

Ransomware Strikes!

- Monday morning employees arrive
- Web servers, databases and production systems are all offline
- Ransom notes on the screens
 - Print-bombed the ransom note, too
- VPN is down

=	== Welcome. Again. ===
[+]	Whats Happen? [+] I
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Data is Gone! (Forever?)

- Primary data servers encrypted
- Backups are fully encrypted too (unrecoverable)
- Key operational data was unrecoverable
 - Financial data
 - Employee records
 - Vendor data
 - Intellectual property



Threats to Publicly Leak Data



'Double Extortion' Ransomware Attacks Spike





More ransomware operators are setting up pages where they threaten to publish compromised data from victims – an added pressure for victims to pay the ransom.

<u>Today: 77% of all ransomware cases</u> involve data theft



Triple extortion cyber attacks threaten leaks and extend the problem to business partners or customers

Criminal gangs carrying out ransomware attacks on JBS, Colonial

Pipeline and others have a nev

Apple targeted in \$50 million ransomware attack resulting in unprecedented schematic leaks

104 📕

The data originated from MacBook supplier Quanta

By Chaim Gartenberg | @cgartenberg | Apr 21, 2021, 5:34pm EDT

https://granthshala.com/hackers-behind-jbs-ransomware-have-new-extortion-tactic/

Not Really New...

- Flashback to 2016: TheDarkOverlord
- Schools, hospitals, any org
- Threatens community members
- Parents, students
- Text messages
- Phone calls



Happy Blog!

Ransomware gang asks \$42m from NY law firm, threatens to leak dirt on Trump

The REvil ransomware gang published last night 2.4 GB of Lady Gaga's legal documents.



By Catalin Cimpanu for Zero Day | May 15, 2020 - 19:13 GMT (12:13 PDT) | To



Papa don't breach: Contracts, personal info on Madonna, Lady Gaga, Elton John, others swiped in celeb law firm 'hack'

Miscreants threaten to leak 756GB of allegedly stolen paperwork

TUE 12 MAY 2020 // 01:43 UTC 23 🖵 GOT TIPS'

Shaun Nichols in San Francisco BIO EMAIL TWITTER

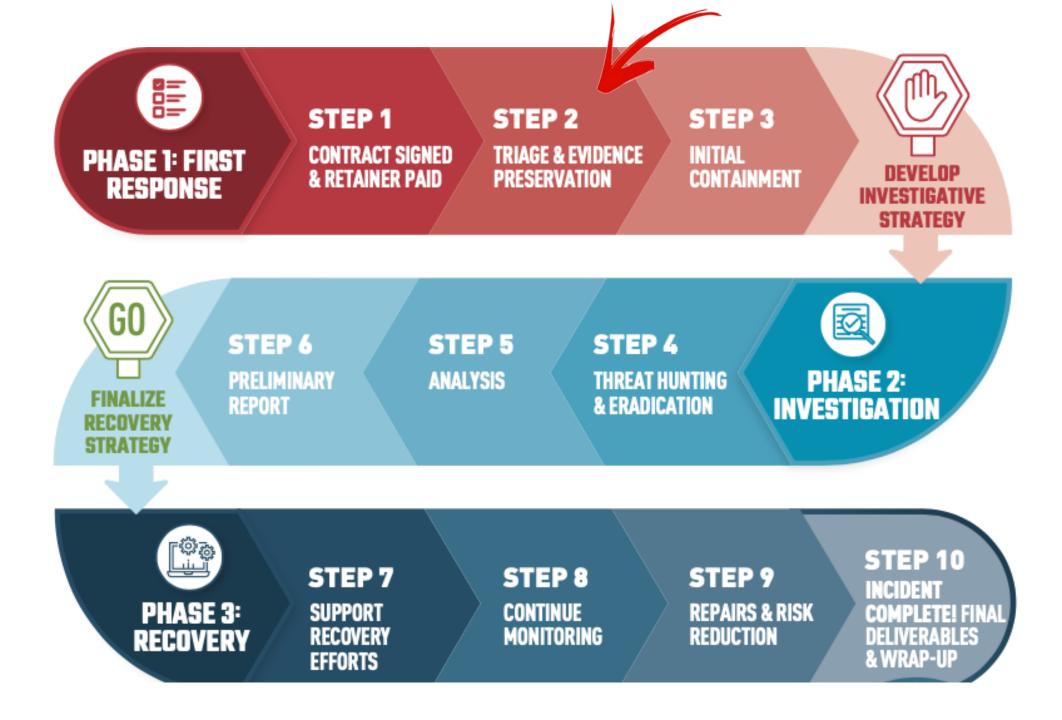
SHARE V



Who's Involved?

- IT
- Insurance
- Outside Attorneys
- Forensics (LMG)





Triage

- Prioritize
- What systems are needed to operate?
- What information is at risk?
- Eradicate the threat
- Available resources
- Come up with a game plan



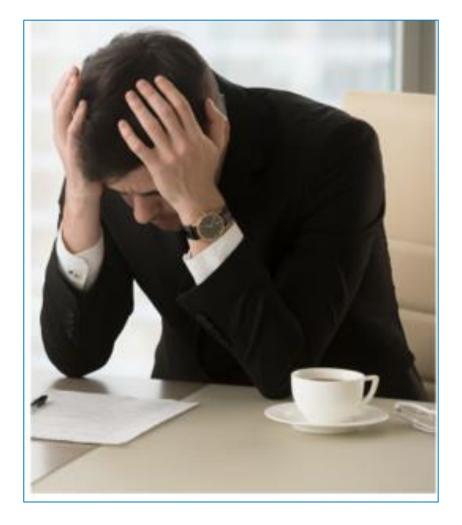
Why Preserve Evidence?

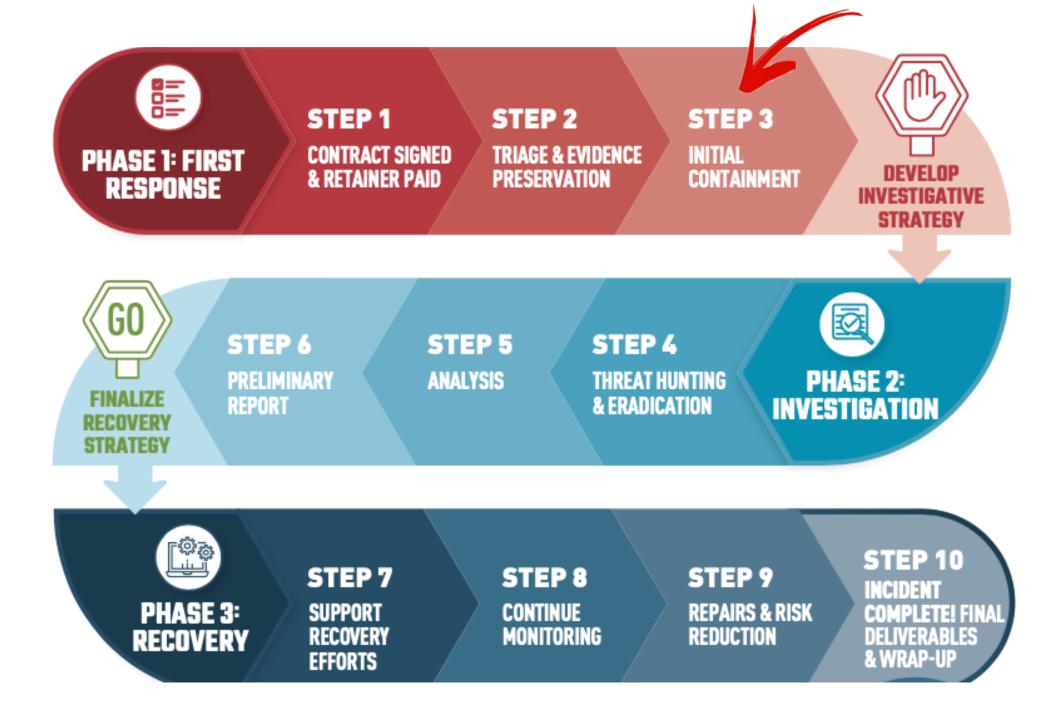
- Rule out a breach
- Understand what was affected
- Trace the attackers' footprints
- Avoid overnotification
- Digital evidence spoils easily!



Common Evidence Preservation Mistakes

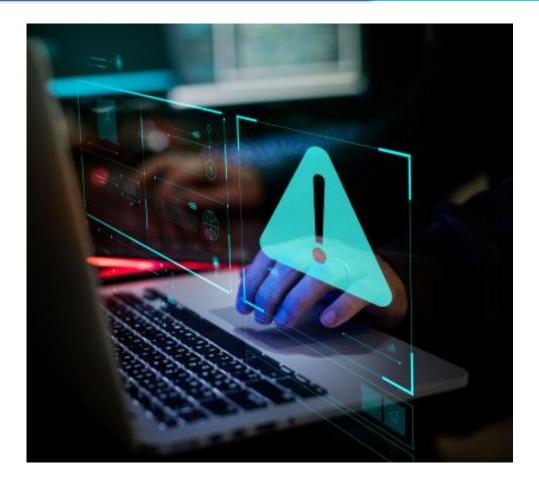
- 1. Destroyed during recovery
 - Format & reinstall
- 2. Too late
 - Example: Email hacking case
- 3. Curiosity
 - Opening files, changing last access times

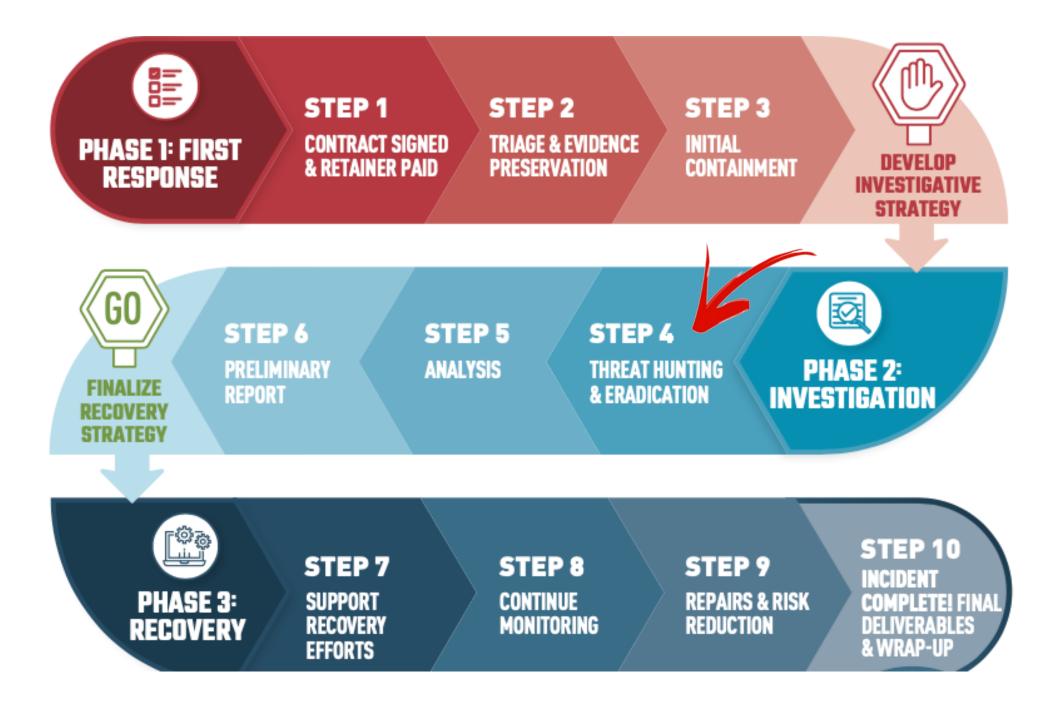




Rapid Containment

- Kill all remote sessions
- Reset passwords IMMEDIATELY
- Disconnect VPN
- Disconnect primary servers from the network
- Configure secure remote access





Working Backwards...

- Ransomware detonated at 2am Monday
- Pushed from the domain controller via PSEXEC
- RDP connected using a service account

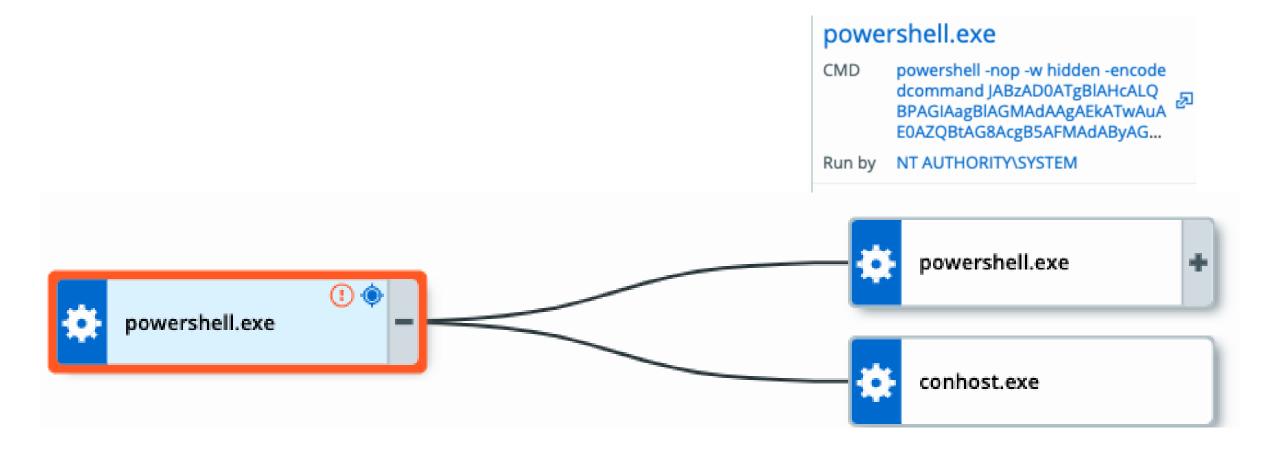


Begin the Hunt

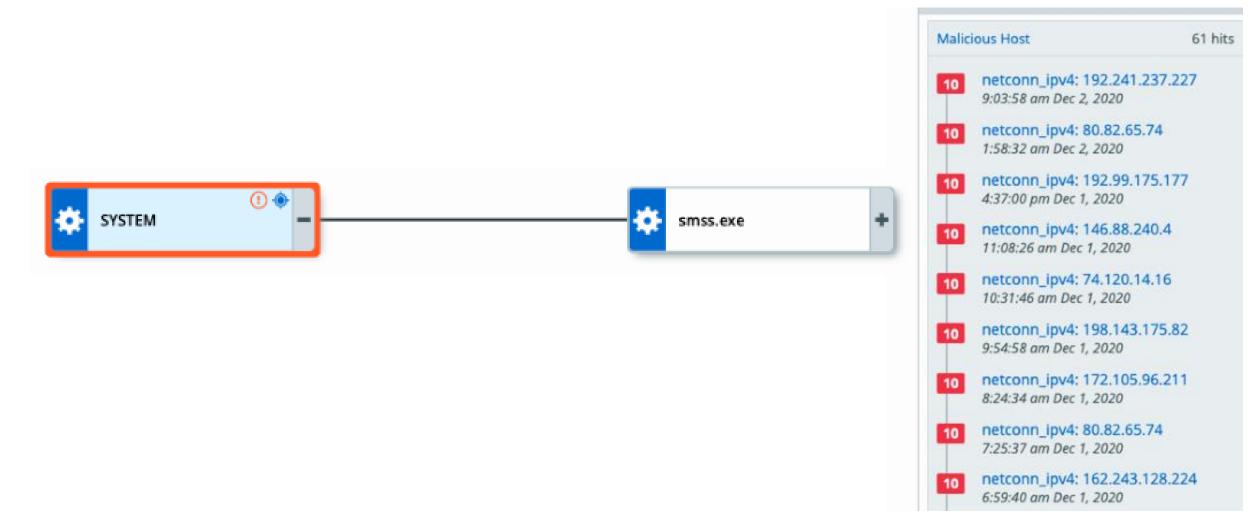
- Adversary was Egregor
- Cobalt Strike
- Ransomware Executables
- Malicious network traffic
- Encoded Powershell



Finding Beacons



Malicious Network Communication



What About Remote Workers?

- Not connected...yet
- Infected systems
- Can't find until reconnect
- No control over personal systems
- Global IP addresses (can't just block Russia)



MacGyvered It

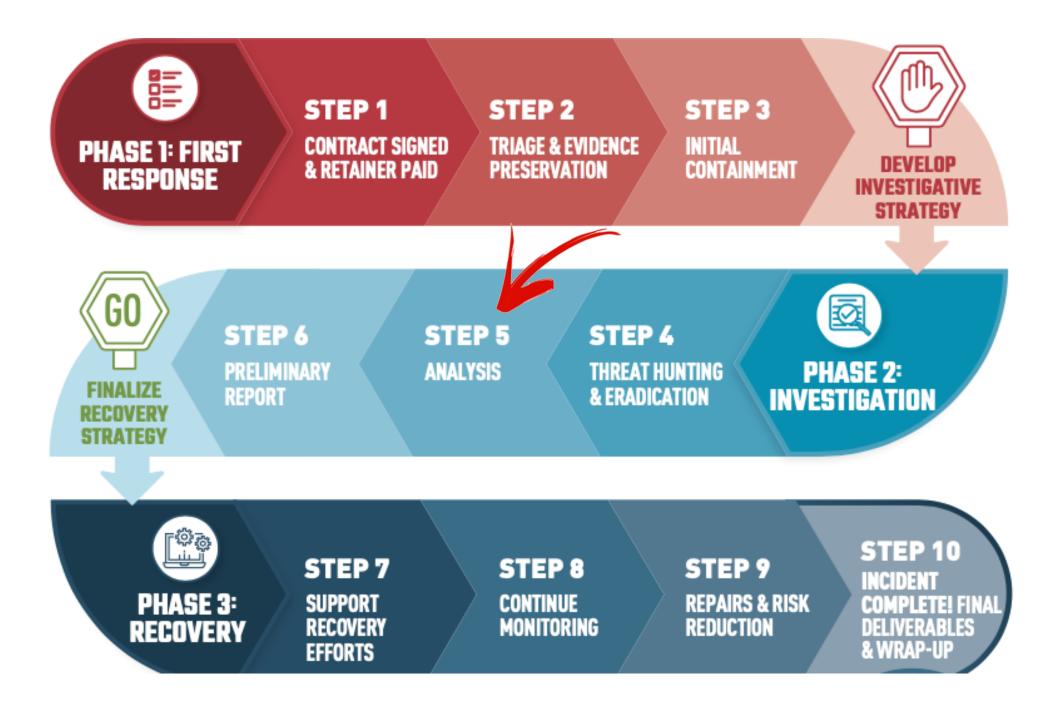
- Used Carbon Black
- Emailed installers to staff
- MUCH better ahead of time!
 - An ounce of prevention...



Visibility into Remote Workstations

- Centrally managed security software
- Both corp. & personal devices if used
- MDM Software
- Endpoint detection







- Financial
- Reputational
- Legal

You have to know:

- What data you have
- What laws/obligations apply

Marianne Kol

Lawsuits After Ransomware Incidents: The Trend Continues

In Latest Case, Florida Practice Sued for Damages, and Security Mandates Sought

If you are a client who declined the deal and did not find your data on cartel's website or did not find valuable files, this does not mean that we forgot about you, it only means that data was sold and only therefore it did not publish in free access!

Blog search

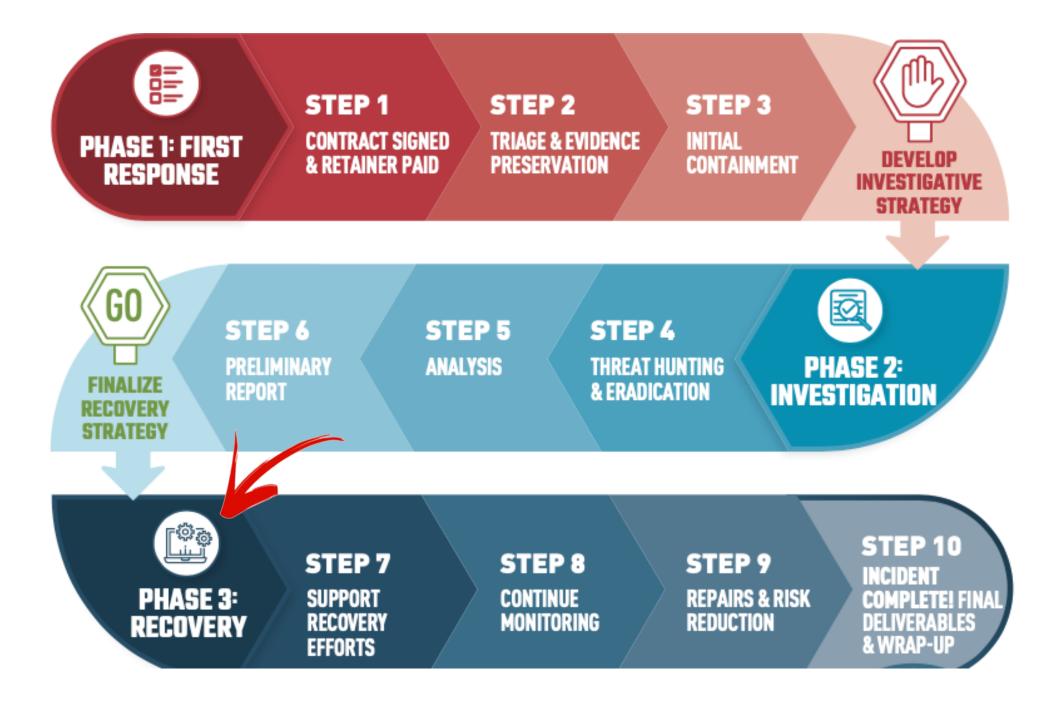
Search

Offer No. 2

Happy Blog

EWS

Sol Oriens, LLC did not take all necessary action to protect personal data of their employees and software developments for partner companies. We hereby keep a right to forward all of the relevant documentation and data to military angencies of our choise, includig all personal data of employees. sol*hiring.png sol*payroll.png sol_wages.png



Recovery & Restoration

- You must rebuild or clean all systems
- Antivirus helps but isn't perfect
- Monitor each system before putting back on the network
- Purchased a decryptor
- Test the decryptor (often infected)
- Doing it right takes time
 - Rushing = reinfection



Restoring Remote Access

- Custom applications needed to be rebuilt
- Overseas contractors needed access
- Language barriers
- Whitelisting VPN traffic from geoblocked areas
 - Russia
 - China
 - India
- Adjusted hours to accommodate time shifts



Your Response Needs to be FAST!

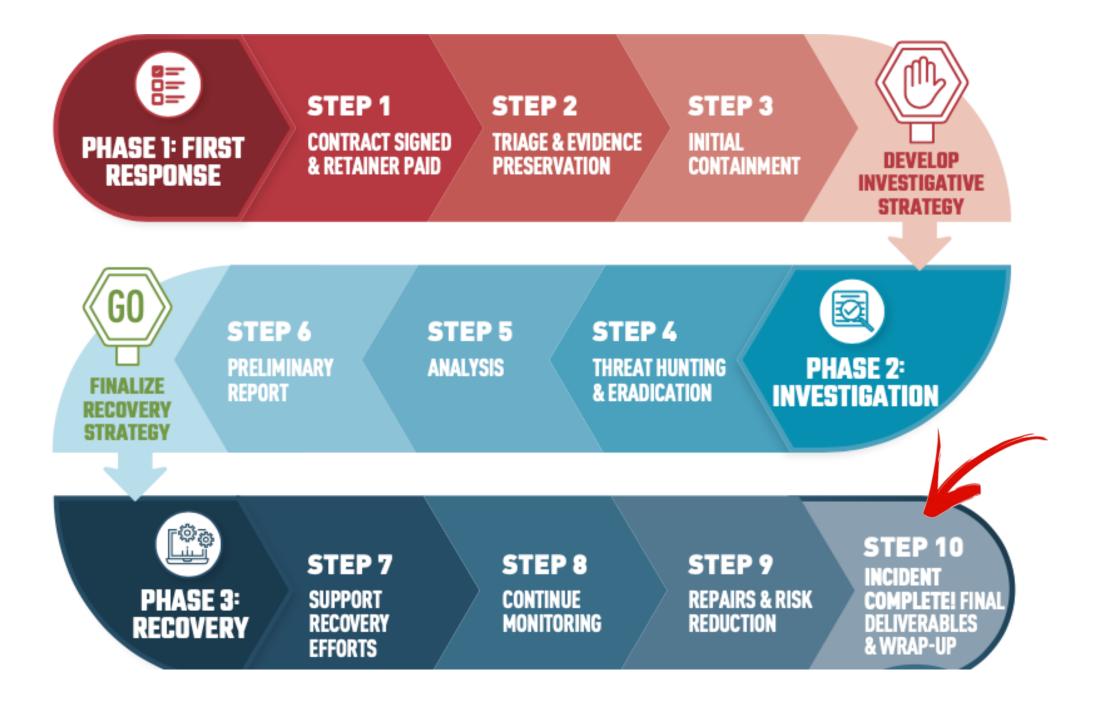
- What can slow it down?
- Communication problems
 - Language barrier between teams
- Lack of control over remote systems
- Lack of data inventory
 - What needs to be restored?
- Not knowing legal/contractual obligations
- Is it a potential breach?
- Lack of documented recovery plan



Create Response Resources in Advance

- Data Inventory
- Current List of Obligations
- Technical documentation
 - Network Map
 - Passwords
 - Dependencies
- Communications Plan
 - Out-of-band
 - After hours
 - Language





Outcome

- Salesman who had been working remotely from home
- Personal computer
- Received a phishing email
- Computer became infected.
- VPN dropped beacon & spread
- Paid \$950,000
- Risk of a breach (investigation ongoing)



Conduct Response Training

- Educate onsite IT staff
- Evidence preservation & response basics
- SMBs/ non-profits
- Prevent evidence destruction
- Quick containment by first responders
- More support for widespread events



Tabletop Exercises

- Live simulated cyber events
 - Ransomware
 - BEC
 - Malware
 - Supply chain attacks & more
- Test processes, communications, etc.
- Clarify roles & responsibilities
- Align expectations & Identify gaps
- Fun & educational

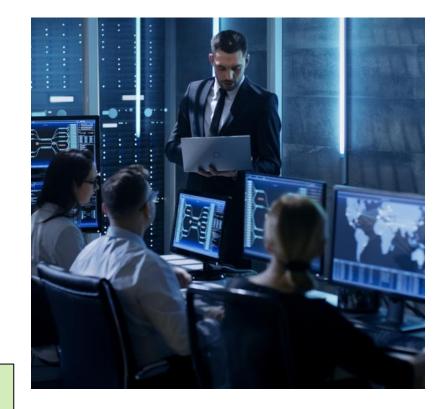


Technical Training for First Responders

- NEW! On-Demand
- Cyber First Responder Class
- Ransomware Response
- Practical response training
 - Ransomware, cloud, malware & more
 - Evidence preservation, investigation, response
- Reduce risk for your organization
- Hands on labs! (Up to 80 hours or 90 days)

Now available on-demand:

https://www.LMGsecurity.com/RansomwareClass https://www.LMGsecurity.com/CFR



Recap of Trends

- Ransomware Attacks & Demand \$\$
- Point & Click Ransomware Tools
- Hackers Use Legitimate Tools
- Law Enforcement Intervention
- Increased Gov Oversight
- Remote workers = new norm
- Triple extortion
- Risk of a Breach



Takeaways

- Threat Hunting is key
- Adapt Your Response Processes
- Visibility into Remote Workstations
- Create Response Resources in Advance
- Conduct Responder Training



Questions?

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