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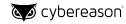


Kraig FaulknerLead Sales Engineer
Cybereason

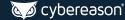
AGENDA

- 1. History of Modern Ransomware
- 2. Why Ransomware?
- 3. Insights & Trends
- 4. The Golden Age of Ransomware
- 5. Ransomware Defense





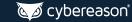




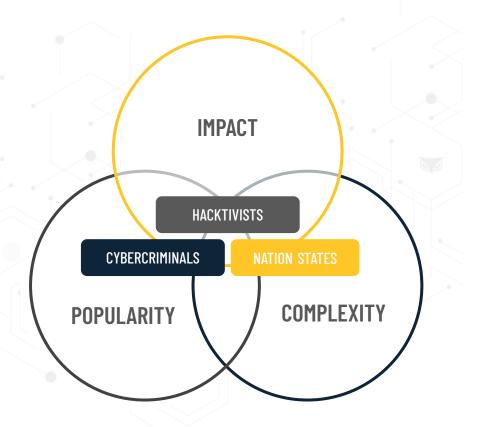
THE EVOLUTION OF RANSOMWARE

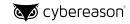






WHY DO ATTACKERS USE RANSOMWARE?





THE LATEST





A Pa The outage Ransomware tops U.S. cyber priorities, Homeland secretary says

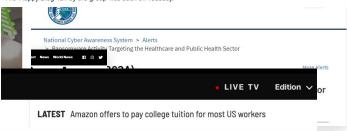
TECHNOLOGY NEWS MARCH 31, 2021 / 11:22 AM / UPDATED 12 DAYS AGO

By Raphael Satter 2 MIN READ



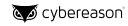
REvil ransomware group resurfaces after brief hiatus

The 'Happy Blog' run by the group was back on Tuesday.



e attack also led to personal

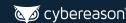
WASHINGTON - The Cybersecurity and Infrastructure Security Agency (CISA) announced the Reduce the Risk of Ransomware Campaign today, a focused, coordinated and sustained effort to encourage public and private sector organizations to implement best practices, tools and resources that can help them mitigate this cybersecurity risk and threat.



WHY PRIORITIZE RANSOMWARE DEFENSE?

- Ransom Payment \$\$\$
- Business Continuity
- Downtime costs
- Loss of data

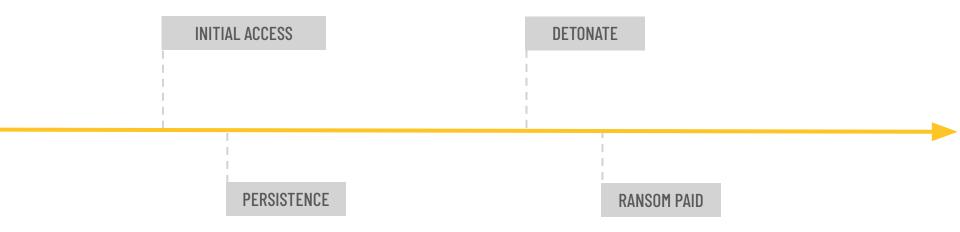
- IR & security costs
- IT costs
- Insurance coverage
- Reputational damage
- Regulatory fines
- Loss of Human Life

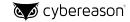




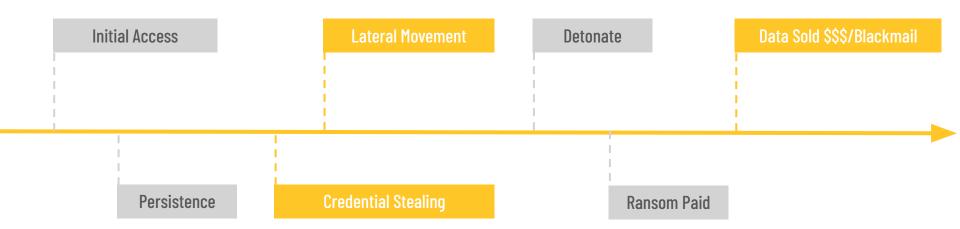


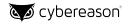
SINGLE STAGE RANSOMWARE





MULTISTAGE RANSOMWARE





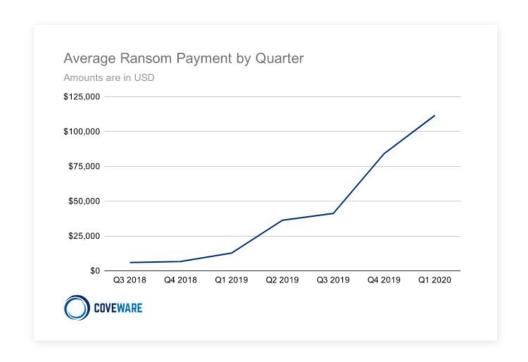
WHAT CHANGED?

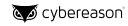
Decline of "Spray and Pray":

 Up until 2016, most ransomware attacks indiscriminately targeted individuals and organizations alike.

Bigger Risk, Bigger Payout:

- Since 2016, targeted attacks against organizations have increased dramatically.
- Average ransom rose from \$115k in 2019 to \$312k in 2020





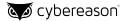
WHAT MAKES A GOOD TARGET?

Those who require 99.999% uptime.

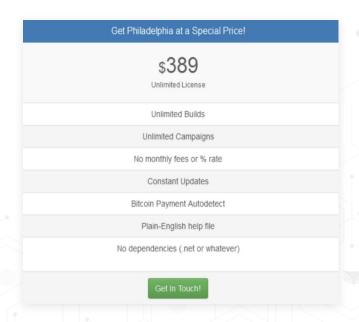
Those with small IT teams.

Those who use legacy systems.





HOW ARE ATTACKERS DOING IT?





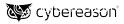


FROM RANSOM TO BLACKMAIL



HOW CYBERCRIMINALS NOW FORCE VICTIMS TO PAY?

- Controlling the network can be used to steal data
- Data exfiltration at scale & stealth
- Don't want to pay? All your data
 will be sold to the highest bidder
- Exploiting the fear of legal ramifications (GDPR, HIPAA,
 PCI DDS, GLBA)



PAYING THE RANSOM



FINCEN ADVISORY

FIN-2020-A006

October 1, 2020

Advisory on Ransomware and the Use of the Financial System to Facilitate Ransom Payments

Detecting and reporting ransomware payments are vital to prevent and deter cybercriminals from deploying malicious software to extort individuals and businesses and hold ransomware attackers accountable for their crimes.

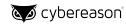
This Advisory should be shared with:

- Chief Executive Officers
- Chief Operating Officers
- Chief Compliance Officers
- Chief Risk Officers
- Chief Information Officers
- AML/BSA Departments
- Legal Departments
- Cyber and Security Departments
- Customer Service Agents
- · Rank Tallars

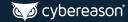
Introduction

The Financial Crimes Enforcement Network (FinCEN) is issuing this advisory to alert financial institutions to predominant trends, typologies, and potential indicators of ransomware and associated money laundering activities. This advisory provides information on: (1) the role of financial intermediaries in the processing of ransomware payments; (2) trends and typologies of ransomware and associated payments; (3) ransomware-related financial red flag indicators; and (4) reporting and sharing information related to ransomware attacks.

The information contained in this advisory is derived



THE GOLDEN AGE OF RANSOMWARE



2020: The Year of Ransomware?

MORE AGGRESSIVE THAN EVER

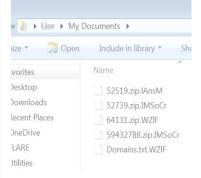
The most prominent threat in 2020



PARADIGM SHIFT

Classic Ransom Demand \rightarrow

Double Extortion



CYBERCRIMINAL COLLABORATION

Joint operations with various commodity malware



COMMON INFECTION VECTORS

Credentials on underground markets, vulnerable assets, phishing



R3ADM3.txt - Notepad

HTTPS VERSION : https://contirecovery.info



Ransomware Stats for 2020

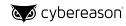
Top affected Industries

- Manufacturing
- Government
- Education
- Services
- Healthcare

Top affected countries / Regions

- North America
- North-West Europe
- Commonwealth countries (UK, Australia, South Africa)
- Japan
- o India





SUPPLY CHAIN ATTACKS

CYBEREASON VS EGREGOR RANSOMWARE









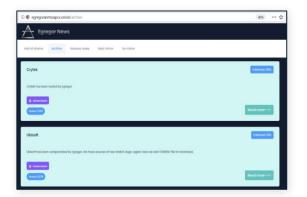


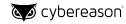




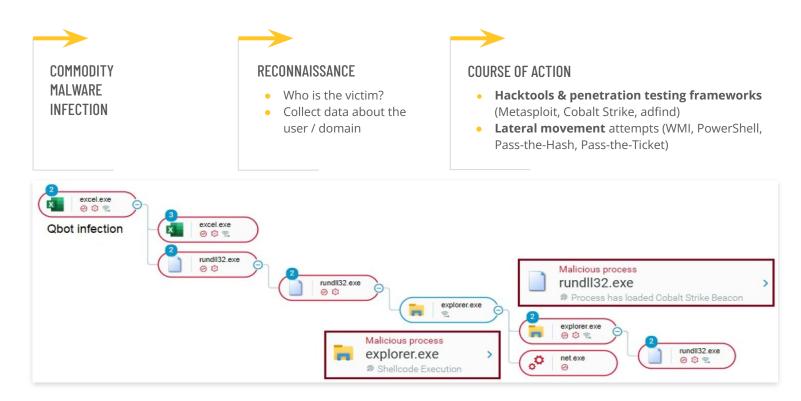
- RaaS Model: Ties to the former Maze Cartel
- Double extortion Scheme: with a leaks website
- Infection chain: phishing email -> Qakbot -> Egregor

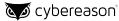


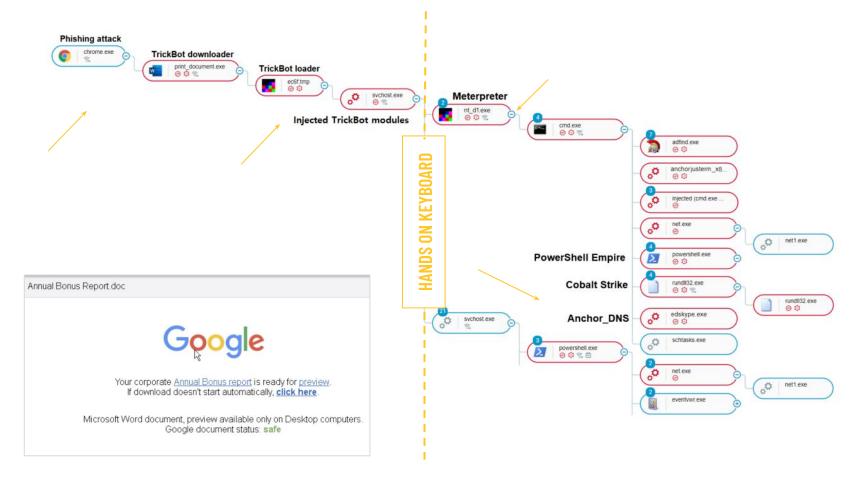


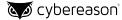


COMMODITY MALWARE AS A PRECURSOR OF AN ATTACK







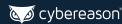






TODAY'S CHALLENGES

- Easier than ever to run a RaaS operation
- More threat actors focus on organizations
- More payouts than ever before, prices go up
- Ransom → Blackmail: Not paying increasingly becomes a scarier option
- Government regulations with steep fines come into play



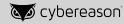
THE UPSIDE

- "Low and Slow": Dwell time > 1 month (up to 9 months!)
- History repeats itself: Most ransomware attacks are not novel!
- Next-gen AV and Behavior-based protection prove effective
- Good hygiene, procedures, and layered defense can prevent most attacks

PROTECTING YOUR ORGANIZATION

- Reevaluate or identify crown jewels (and paths to them)
- Evaluate and reduce cyber risk through prioritization
- Update legacy systems
- Prevent the preventable

- Detection mindset
- Implement user training
- Communicate the risk to the business
- Build relationships with executives
- Prepare in peacetime



WANT TO LEARN MORE?





THANK YOU

