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Ransomware Protection,

10 Cloud Security Trends That Will

Shape 2022 and Beyond

everywhere you need it

## Is remote working increasing your organization's vulnerability to ransomware? Ojasvi Nath FIND OUT MORE Assistant Editor, Spiceworks Ziff Davis €IDC ① January 27, 2022 **Popular**

year compared to 2020. Meanwhile, the U.K. identified a 233% Log4j Zero-Day Vulnerability: surge in the attacks. The organizations and governments were Everything You Need To Know About the Apache Flaw unequivocally kept on their toes by several cyber threats originating from state actors and ransomware gangs. This article Top 10 Cybersecurity Colleges in the U.S. in 2022 talks about the top ransomware attacks of 2021, what went wrong, and a few precautionary measures to be more prudent.

Approximately 500 million ransomware attacks were registered in nine months leading up to September 2021, with an average of

1,748 attempts per client. In the third quarter of 2021, 190.4 million ransomware attempts were reported, nearly surpassing the 195.7 million total ransomware attempts recorded in the first RANSOMWARE ATTACKS SPIKE ORD-BREAKING Q3

Ransomware volume through the first three quarters of Through September 2021, SonicWall Capture Labs recorded 2021 has spiked 148% year-to-date. more than 495 million ransomware attempts globally.

Ransomware attacks spike in Q3 2021; Source: SonicWall "The techniques deployed by ransomware actors have evolved well beyond the smash-and-grab attacks from just a few years ago," said Dmitriy Ayrapetov, platform architecture vice president at security firm SonicWall. "Today's cybercriminals demonstrate deliberate reconnaissance, planning and execution to surgically

infrastructure. This results in larger victims and leads to higher

Before we look at the top ransomware attacks of the previous

Ransomware is a type of malware that encrypts the data of its

victims. The intruder then demands a ransom from the victim,

is paid. Users are shown how to pay a charge to acquire the

decryption key. The costs, which can vary from a few hundred

dollars to thousands of dollars, are paid in Bitcoin to the hackers.

assuring that access to the data would be restored if the ransom

year, let us quickly reiterate what ransomware is and how it

deploy tool chains targeting enterprise and government

What is Ransomware?

**UP 148% YTD** 

sonicwall.com

ransoms."

operates.

2021

Colonial Pipeline

SONICWALL'

See More: A Midsize Company's Guide to Ransomware Protection Top 5 Ransomware Attacks of

to be the most contentious of the year. Colonial Pipeline transports roughly half of the petroleum on the East Coast. The ransomware incident was the most significant hack on oil infrastructure in U.S. history. On May 7, 2021, the American

pipeline company paid approximately \$5 million to Eastern

European hackers, defying rumors that the corporation had no

obligation to pay a ransom price to facilitate the restoration of

The company restored the pipeline to service by May 12, 2021,

while the supply chain took a few days to function normally. The

hackers, identified as DarkSide, infected the company's automated

management equipment with ransomware. DarkSide hacked the

Assuming May is the peak month for cybercriminals, JBS USA, a

global meatpacker, also suffered a ransomware attack the same

who used ransomware to lock corporate files and impair

operations in the United States and Australia. The attack

United States and reduce pork and poultry output. The hack

manufacturing and agriculture industries' vulnerability to such

Because of its cybersecurity policies, redundant systems, and

encrypted backup servers, JBS stated it could promptly rectify the

difficulties caused by the cyberattack. It claimed that it spends

wreaked havoc on the food supply chain, highlighting the

month. The company paid \$11 million in Bitcoin to cybercriminals

prompted the corporation to shut down its beef operations in the

The ransomware onslaught on Colonial Pipeline in 2021 was set

Let us now look back at the biggest ransomware attacks of last

year that caused significant damage to the prey organizations.

password for an active VPN account that was no longer in use. Because Colonial Pipeline did not employ multi-factor authentication, hackers could access the firm's IT network and data more quickly.

**JBS** 

disruptions.

specialists worldwide.

the country's major petroleum pipeline.

The attackers were revealed as the REvil ransomware-as-a-service operation by the FBI. The REvil gang is a ransomware (RaaS) company that sells encryption software to other criminal organizations. Kaseya Kaseya, a Florida-based software supplier that offers Remote Management Monitoring, issued a warning on July 2, 2021, about their product being used to install ransomware on end-customer systems. The attack was again carried out by the REvil ransomware gang that exploited two vulnerabilities in Kaseya software to hack into roughly 50 managed services providers (MSPs) that utilized the company's products.

Despite only 1% of Kaseya's clients being impacted, their MSP

organizations. 800 Coop shops and a Swedish grocery chain were

forced to close momentarily due to difficulty accessing their cash

The Health Services Executive (HSE), Ireland's state healthcare

system, was struck by a ransomware attack in May 2021, which

months. The hacker installed Conti ransomware on HSE systems

on May 14, 2021. The organization activated its Critical Incident

Process right away, shutting down all IT systems and isolating the

The firm declined to pay the \$20 million ransom in Bitcoin since

the Conti ransomware gang provided the software decryption key

The Metropolitan Police Department in Washington, D.C., released

a statement in April. The Babuk gang, a Russian ransomware

group, launched a ransomware attack on the department. The

police unit declined to pay the group \$4 million ransom in

turned out to be exceedingly costly and impacted services for

National Healthcare Network from the internet.

**DC Police Department** 

compromised an estimated 800 to 1500 small to mid-sized

for free. However, the early estimated costs were \$600 million, including \$120 million in recovery costs, replacement and upgrade fees for ransomware-affected systems, and charges to a third-party cybersecurity support team.

States.

Ransomware Attacks

registers.

Ireland's HSE

threat to the global economy by the World Economic Forum (WEF). The WEF has recommended a multi-stakeholder strategy in which organizations exchange information and conduct testing and training to avoid attacks. Following the Pipeline incident mentioned, the Cybersecurity and Infrastructure Security Agency (CISA) in the United States provided a set of ransomware-

factor authentication (MFA).

avoidance suggestions:

phishing emails.

dangers of ransomware.

• URL blocklists to filter internet traffic.

**Precautionary Measures** 

Organizations must become more conscientious about cybersecurity training, software patching and upgrades, and the implementation of proper cybersecurity technology to manage ransomware threats better in the years to come. **MORE ON RANSOMWARE:** Ransomware: Is Your Sensitive Data Protected, or Will You Have

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Attack?

<u>Industry</u>

Ransomware Attacks

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Strategies To Defend Against a **Growing Threat** 

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Security Vulnerabilities



A Midsize Company's Guide to

**Ransomware Protection** 

over \$200 million on IT each year and employs over 850 IT

compensation for the agency's data not being leaked. Internal information, including police officer disciplinary files and intelligence reports, was massively leaked due to the attack, resulting in a 250GB data breach. Experts claimed it was the most significant ransomware attack on a police agency in the United See More: 3 Ways To Make Your Organization More Resilient to Cybercrime, particularly ransomware, has been identified as a

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Security Vulnerabilities

Security Vulnerabilities Why a Zero-Trust Model for **Email Security Is Critical Authentication Should Be Deployed Across the Enterprise** 

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three quarters of 2020.

Last year was a watershed moment for the cybersecurity

Organizations found themselves in a tangle last year as the number and severity of ransomware attacks soared significantly. 2021 is reckoned to be one of the costliest and most dangerous years for ransomware outbreaks, a recent report highlighted.

ransomware attacks in the United States increased by 127% last

Biggest Ransomware Attacks of 2021: A Look Back at the Chart Toppers Ransomware threats have increased exponentially over the last year. Here we look back at the top ransomware attacks of 2021 and focus on the cautionary steps that organizations, governments, and individuals can take to prevent an attack. industry. According to a report by SonicWall, the number of

be required. • Run antivirus and anti-malware checks regularly. Prevent illegal execution by limiting the apps and directories that can run programs and monitoring and blocking unexpected connections. Conclusion Ransomware attacks have become much more sophisticated and costly to enterprises. Cybercriminals now have access to additional tools, including the threat of exposing sensitive information. Many of them also provide tools to other criminals in exchange for a share of the ransom money. This kind of well-coordinated illegal behavior needs well-coordinated retaliation and vigilance.

Workers must log onto computers and networks using multi-

Robust spam filters need to be in place to protect against

Simulated phishing attempts to teach consumers about the

Remote access to resources should be limited, and MFA should

All software is to be updated and patched regularly.

Cyber Attacks **Colonial Pipeline** Bitcoin Ireland Hse Jbs Kaseya Malware Ransomware **Share This Article:** in Ojasvi Nath Assistant Editor, Spiceworks Ziff Davis

Ojasvi Nath is Assistant Editor for Toolbox and covers varied aspects of

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Being a philomath, Ojasvi thinks knowledge is like a Pierian spring. The more

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