9/15/2021

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Daniel McGrath- Advanced System Director

FIS



Who is FIS?



LEADING MARKET SOLUTIONS Enabling How the World Pays, Banks and Moves Energy

\$40 TRILLION Financial Transactions Managed over FIS' Technology



Over 55,000 Employees Largest FinTech

90% Market Share of Global Banks

90%

\$40 TRILLION

12B Over **\$12B** Fortune 300 Company

Over 200 Energy Customers

200

SOME OF OUR NORTH AMERICAN ENERGY PARTNERS-



Fis

SOME OF OUR GOVERNMENT CLIENTS









SOLARWINDS

COLONIAL PIPELINES

Russian Hack of US Agencies Exposed Supply Chain Weaknesses

The Russian hackers sneak malicious code into a software update pushed out to thousands of government agencies and private companies.

ASSOCIATED PRESS / January 25, 2021





SUPPLY CHAIN ATTACK

POLITICS Colonial Pipeline paid \$5 million ransom one day after cyberattack, **CEO tells Senate** PUBLISHED TUE, JUN 8 2021-10:17 AM EDT | UPDATED WED, JUN 9 2021-8:24 AM EDT Christina Wilkie SHARE CHRISTINAWILKI

. The president and CEO of the Colonial Pipeline Co. gave a public account of the POINTS initial hours after a ransomware attack on his company May 7.

> Joseph Blount Jr. told the Senate Homeland Security and Governmental Affairs Committee the company learned of the attack shortly before 5 a.m., and within an hour had made the decision to shut down the entire pipeline.

TRENDING NOW

* Blount also revealed that the company paid the ransom only one day after learning of the attack.



Biount also revealed that the company paid the ransom only one day after learning

KEY

RANSOMWARE ATTACK



What are the new Executive Orders?



BRIEFING ROOM

Administration Priorities COVID Plan Brie

FACT SHEET: President Signs Executive Order Charting New Course to Improve the Nation's Cybersecurity and Protect Federal Government Networks

MAY 12, 2021 • STATEMENTS AND RELEASES

Today, President Biden signed an Executive Order to improve the nation's cybersecurity and protect federal government networks. Recent cybersecurity incidents such as SolarWinds, Microsoft Exchange, and the Colonial Pipeline

Government Networks



Administration Priorities COVID Plan Briefi

FACT SHEET: Biden Administration Announces Further Actions to Protect U.S. Critical Infrastructure

BRIEFING ROOM

JULY 28, 2021 • STATEMENTS AND RELEASES

The Biden Administration continues to take steps to safeguard U.S. critical infrastructure from growing, persistent, and sophisticated cyber threats. Recent high-profile attacks on critical infrastructure around the world, including the ransomware attacks on the Colonial Pipeline and JBS Foods in the United States, demonstrate that significant cyber vulnerabilities exist across U.S. critical infrastructure, which is largely owned and operated by the private sector. As we have seen, the degradation, destruction, or malfunction of systems that control this infrastructure can have cascading physical



What are the new Directives for Pipelines?

"1st Directive"

- 1. Report all cybersecurity incidents to CISA within 12 hours
- 2. Primary and alternative Cybersecurity Coordinator accessible 24/7 to TSA and CISA
- 3. Conduct cyber vulnerability assessment and report to TSA and CISA within 30 day **"2nd Directive"**

1. Implement immediate mitigation measures to protect against cyberattacks

- 2. Develop a cybersecurity contingency and recovery plan, and
- 3. Conduct a cybersecurity architecture design review



ZERO TRUST ACCESS ACROSS THE PIPELINE NETWORK



Multi-factor Authentication required to move laterally across the Network DMZ separates the Enterprise IT Applications from the ICS/OT Systems Honey Pot Servers set up to catch cyber criminals attempting to change files or remove data

WHAT DO THE ATTACKS HAVE IN COMMON:

Passwords



PASSWORD ENGINEERING:

Consumer Data Breach

Technology

By Akanksha Rana

¥ A B 2 0

T-Mobile breach hits 53 million customers as probe finds wider impact

2 minute read

August 20, 2021

2:46 PM CDT Last Updated a month ago

A T-Mobile logo is seen Aug 20 (Reuters) T Mobile US Inc (TMUS.O) said on Friday an ongoing on the storefront door of investigation into a data breach revealed that hackers accessed personal a store in Manhattan. information of an additional 5.3 million customers, bringing the total number New York, U.S., April 30, of people affected to more than 53 million. REUTERS/Shannon

Sold in Mass

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Crack Your Password

"INSERT YOUR COMPANY NAME Here"

2018.

Industry and Government Partnerships

FIS Partners With Leading Organizations To Defend Against Cyberattacks



What is a Fusion Center?

FIS Command Center to Defend Against Cyberattacks

Brings FIS's key information security teams together
Embed with Dept Homeland Security and Microsoft Cyber Security
Teams consist of Cyber Analysts, SIEM Experts, Forensics Analysts, Vulnerability Assessors, Tools Experts and Penetration Testers



Defense in Depth Strategy



FIS

NEXT Cyber Security Trends on the Horizon?

PASSWORDLESS

The best password is no password. Using Trusted Device Certificates, Biometrics, Location and AI

XAAS

"Everything-as-a-Service" from Outsourced Cyber Command to Telco Data Management and Full Back Office Vendor Application Management including DevSecOps.

SBOMS

Software Bill of Material keeps a transparent inventory of what's in a vendor's software and the underlying dependencies on other software.

NEIGHBORHOODS

Pipelines Cybersecurity Intelligence Knowledge Sharing among Trusted Peers

AIR GAPPED RESTORE SYSTEMS

Hard Copy Snapshots of the Meta Data, Transactional Data and Raw Data but without the Software Application or Database Application being Imaged. Server is **NOT** connected to the internet or Corp Network. Restores to the last known **Uncompromised** Application Version in hours.



Unrivaled financial strength



Governmentgrade cyber security





Comprehensive single-vendor solution



Equipped for remote deployment



Best-in-class gas management



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