

# RANSOMWARE THREATS & TRENDS

June 30, 2021



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# Agenda

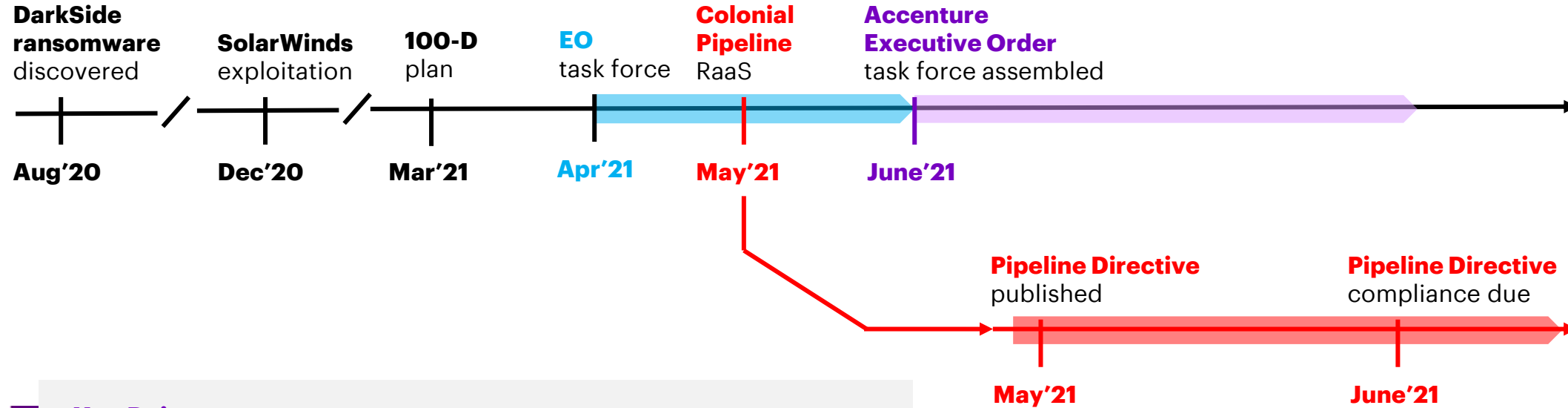
Global cybersecurity events are having a massive impact on how organizations address security and resilience

- 1 Energy Cyber Threat Landscape
- 2 Executive Order Overview
- 3 Colonial Pipeline Ransomware Event
- 4 TSA Pipeline Directive

# Energy Cyber Threat Landscape

# 2020-2021 Chain of Events

## Briefing overview



### Key Points

**The Executive Order** The EO started in the early days of the current administration, along with the 100-day plan for Utilities

**Darkside attribution** Earliest indication of DarkSide providing ransomware as a service (RaaS) was in the summer of 2020

**Dramatic increase in RaaS** There has been a significant increase in overall ransomware attacks from 2020 to 2021

**100-Day Plan** Current administration has identified 6 major utilities who provide power to a list of USG critical sites that must have specific threat anomaly detection included (*Timeframe 4/16/2021-7/25/2021*)

**Pipeline informed**  
Pipeline companies to whom the directive applies receive form

### Requirements:

- Appoint
- Assess
- Identify
- Plan
- Execute (*future*)

# Ransomware Attack Threats & Trends

## Increasing Attack Vectors

### Remote Work

- During COVID-19, many companies switched to WFH policies, which made RDP and VPN highly targeted

### Delay in Patching

- Threat actors target 1-day vulns

### Third-parties

- Threat actors utilize third-parties/supply chain companies, as a means to reach victims with larger revenue

## Cyber Criminal Business Models

### Ransomware gang business models streamline attack methods

- Affiliate programs
- Streamlined attacks
- No attribution
- Mis-attribution
- Nation-state threat actors absolved from blow-back

## Ransomware Gangs on the Rise

### NetWalker

- Various energy sector victims

### CLOP

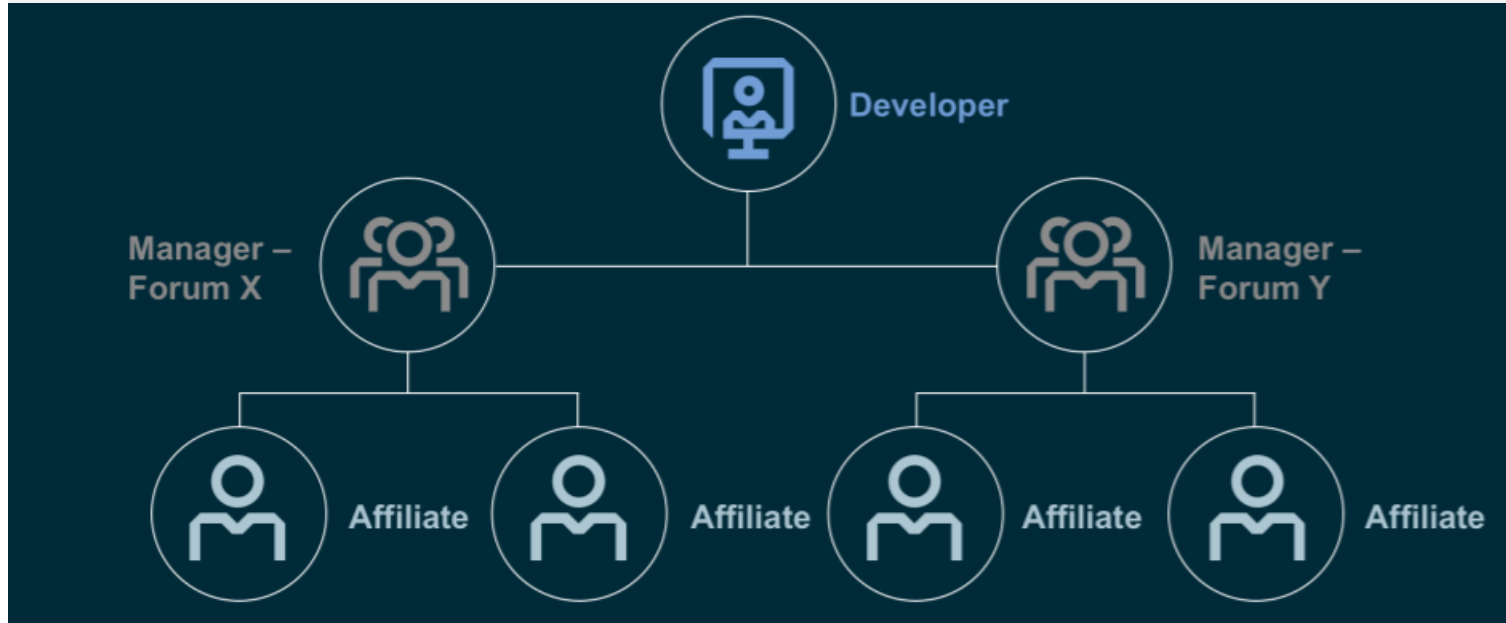
- Linked to Accellion File Transfer Alliance (FTA) exploit, according to [Bleeping Computer](#)

### Darkside

- Linked to Colonial Pipeline ransomware event, according to [FBI](#)

# Ransomware affiliate business model

## Ransomware Business Model: **Affiliate**



An “affiliate” program may be managed by the malware author(s) themselves or an individual that has purchased the ransomware with distribution rights.

# The Executive Order

“[...W]e cannot fight the threat posed by ransomware alone.  
The private sector has a distinct and key responsibility.  
The federal government stands ready to help you  
implement these best practices.”

Anne Neuberger, White House Deputy National Security Adviser  
for Cyber and Emerging Technology  
[Wall Street Journal](#)



# Executive summary

## Background

- A draft executive order on cybersecurity is being finalized by the White House. An **April 2021 release**.
- The order was spurred by the SolarWinds cyberattack, which involved a software breach impacting roughly 100 private sector companies and nine U.S. Federal Agencies, including NASA.
- At a US Senate Intelligence hearing, executives from SolarWinds, Microsoft, FireEye, and CrowdStrike called for **greater transparency and information-sharing of cyberattacks and breaches**.
- The order proposes significant policy changes, empowering the government to:
  - Adapt to the changing environment, particularly around detection and response.
  - Ensure that products are securely built and that supply chains are secured.
  - Build collaborations with the commercial sector (public, private partnership).
- **All software and SaaS contractors doing business with the US government will have to meet new software security standards** and swiftly report cyber incidents to a new, as yet undefined entity within the Department of Homeland Security.
- **Specific requirements will be developed by NIST** and are expected to be effective in the next several months, after a public comment period.

## Highlights

- **Significant increases in authority and resources for the government** to run/coordinate/standardize the security of civilian federal networks (e.g., incident response playbooks, endpoint detection and response, logging event data).
- Creates **mandatory incident reporting** to the federal government for every software and SaaS provider.
- Federal and Defense contracts with providers shall contain **no barriers to sharing of data** related to event prevention, detection and response.
- Software suppliers will need to **attest to the security of their software development lifecycle**.
- Directs a swift increase in the pace of federal government agencies to **transition to the cloud and adopt a zero-trust model**.

# Colonial Pipeline Ransomware Event

“A May 7 ransomware attack on Colonial Pipeline Co. led to a six-day shutdown of the East Coast’s largest conduit for fuel, sparking scrutiny of pipeline security and pushing the Department of Homeland Security to prepare to issue first-of-their-kind cybersecurity regulations for the sector.”

[Wall Street Journal](#)

# Colonial Pipeline ransomware event



- May 7<sup>th</sup> Colonial Pipeline shut down due to a ransomware attack reportedly **impacting only their IT Systems**. Flow of 2.5 Million Gallons of fuel per day disrupted.
- Motivation **appears to be financial with no broader energy industry campaign**. No indication of strategic Russian state interests.
- FBI has confirmed the involvement of “**DarkSide Ransomware**.” Darkside is a **Ransomware as a Service (RaaS)** operator who has since “retired”. Emerged in mid-2020 and only targets organizations that have the financial **resources to pay large ransoms**.

# The Pipeline Directive

“A May 7 ransomware attack on Colonial Pipeline Co. led to a six-day shutdown of the East Coast’s largest conduit for fuel, sparking scrutiny of pipeline security and pushing the Department of Homeland Security to prepare to issue first-of-their-kind cybersecurity regulations for the sector.”

[Wall Street Journal](#)

# TSA directive

As per TSA directive dated 05/27, three key elements are captured highlighting key call for actions for pipeline owners and operators



As per TSA require critical pipeline owners and operators to report confirmed and potential cybersecurity incidents to the CISA

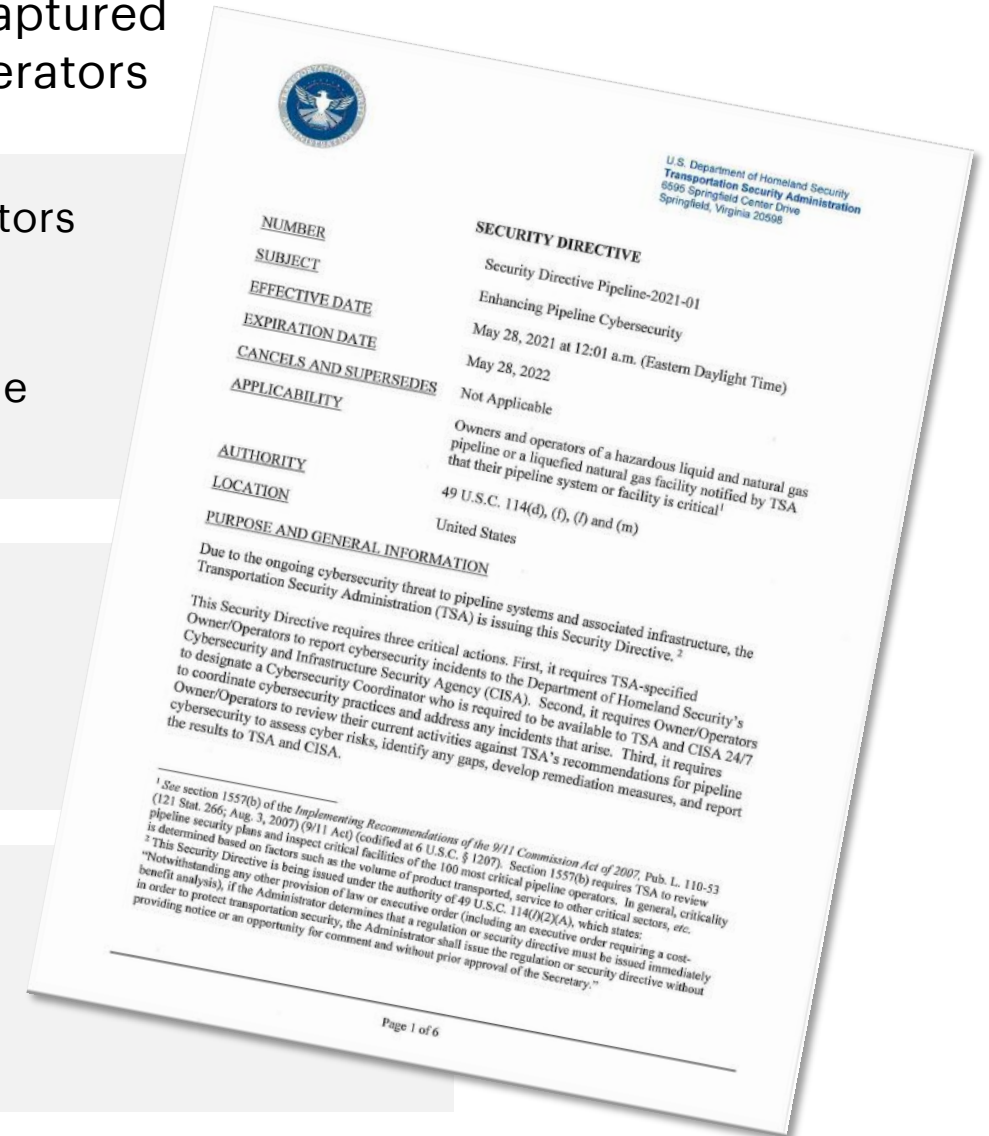
Designate a Cybersecurity Coordinator, to be available 24 hours a day, seven days a week



Pipeline owners and operators to review their current practices to identify any gaps and related remediation measures



Perform cyber-related risks and report the results to TSA and CISA within 30 days; due to TSA June 25<sup>th</sup>



**Thank You**

