NATURAL GAS CYBERSECURITY

WHAT WE SEE

MARCIN TOCZYDLOWSKI @ PROCESS IQ COMPANY

- **Process IQ Company**
- Cloud Based Automation for Natural Gas Actualizations
- Technology consulting

Few rules for this talk

- We won't talk about legal policy and regulatory oversight

- We will talk about real examples

- Yogi Berra: "In theory, there is no difference between practice and theory. In practice, there is."

All of your files are encrypted!

Find README.5de1a6d8.TXT and Follow Instructions!

OKLAHOMA'S NEWS 4

79° Oklahoma City

NEWS   WEATHER   WATCH   SPORTS   LINKS   KFOR APP CENTER   MORE   NEWSLETTER

ALERT / LIVE OKLAHOMA WEATHER RADAR

NEWS

JBS USA shut down all beef plants after cyberattack, workers' union says

CNN   US   Crime + Justice   Energy + Environment   Extreme Weather   Space + Science   ● LIVE TV   Edition

Hacked Florida water plant reused passwords and had aging Windows installations

By Brian Fung and Alex Marquardt, CNN
Updated 11:01 AM ET, Thu February 11, 2021

July 3, 2021

'Turn off your heart': Kaseya VSA ransomware hits MSPs in a vital organ
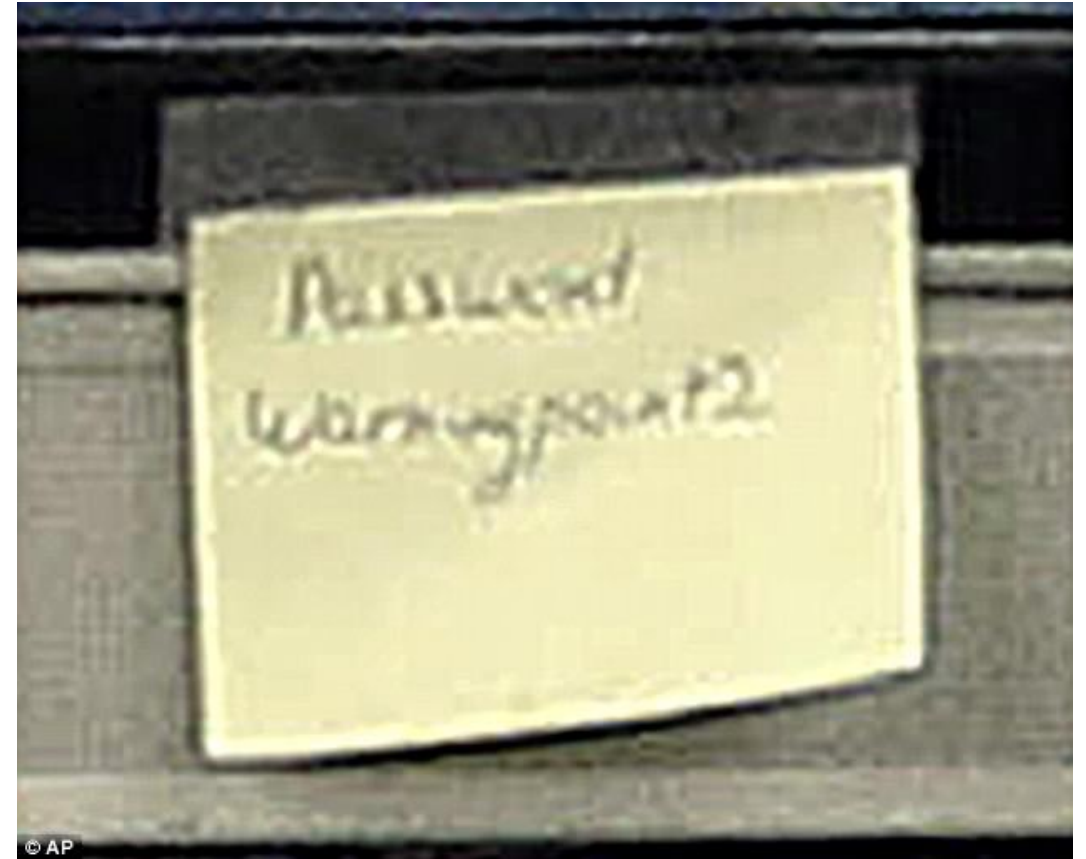
SC

Joe Uchill
Follow @joeuchill

PROCESS IQ COMPANY

FAKE NEWS CHANNEL

Breaking News

Widespread natural gas disruptions in winter after pipeline hit by ransomware

PROCESS IQ COMPANY

NATURAL GAS CYBERSECURITY

PROCESS IQ COMPANY

Selected cybersecurity standards, initiatives and frameworks

- PCI - Pipeline Cybersecurity Initiative – from CISA, DHS, TSA

- API STD 1164 - SCADA security

- SOC 2 - Trust Services Criteria - Oversight of the organization, Vendor management programs, Internal corporate governance and risk management processes, Regulatory oversight

- ISO/IEC 27001 - international standard on how to manage information security

- NIST Cybersecurity Framework Version 1.1

- CISA's Cyber Hygiene Services free cybersecurity assessment (if you qualify)

NATURAL GAS CYBERSECURITY   PROCESS IQ COMPANY

What doesn't work?

- Policy only security

- Audit can tell you anything: ISO 27001 certification can be bought for $500 in offshore tech-centers

- Colonial Pipeline: offboarding procedure most likely not followed

What works?

- Security is a process

- Policies must be enforced

- Internal security teams asking for hard data

Question: How can you trust your offshore contractors?

NATURAL GAS CYBERSECURITY   PROCESS IQ COMPANY

What doesn't work?

- Password only authentication is bad and will get you hacked

- Most of EBBs are only password based!

- Colonial Pipeline remote access was protected by password only

What works?

- Multi Factor Authentication

- Very easy to set up in the cloud

- On-premises systems might require a lot of work when it comes to MFA

Process IQ can help here!

What doesn't work?

- One large secure corporate network

- Hey programmers, here's few hundred pages how to write secure applications

- Lack of investments
  Large pipeline: using software no-longer maintained for past 20 years

What works?

- Network segmentation

- Each service enforcing zero trust

- Code reviews and secure programming training

- Vulnerability scanning by internal security teams

- Test your backups!

NATURAL GAS CYBERSECURITY   PROCESS IQ COMPANY

Keywords

- Multi Factor Authentication

- Security perimeter at each server

- Network segmentation

- Code Review

- Install Russian Keyboard

THANK YOU

MT@PROCESSIQCOMPANY.COM