### COMMONWEALTH OF KENTUCKY

### BEFORE THE PUBLIC SERVICE COMMISSION

### IN THE MATTER OF:

ELECTRONICAPPLICATION OF ROWAN WATER,	)	CASE NO.
INC. FOR APPROVAL OF WATER TRAINING	)	2025-00133

### NOTICE OF FILING

\_\_\_\_\_\_

Comes now Rowan Water, Inc., its individual directors and its general manager (collectively, "Rowan Water"), and Honaker Law Office, PLLC ("Joint Applicants") to give notice of the filing of the following documents:

- 1. A sworn statement attending that the second and final installment of the accredited instruction entitled "Rowan Water 2025 Training" was performed on August 14, 2025 (Exhibit 1).
- 2. A copy of the presentation on cyber securily provided to the attendees is attached as Exhibit 2.
- 3. The name of each attending water utility Commissioner, Director, and Manager and the number of hours that they attended is attached as Exhibit 3.
- 4. Attendees appeared in person.
- 5. The only written materials provided to the attendees were copies of the agenda.

Dated this 30<sup>th</sup> day of August, 2025.

Respectfully submitted,

L. Allyson Honaker

Merestatt Cauc

Heather S. Temple

Meredith L. Cave

HONAKER LAW OFFICE, PLLC

1795 Alysheba Way, Suite 1203

Lexington, Kentucky 40509

(859) 368-8803

allyson@hloky.com

heather@hloky.com

meredith@hloky.com

Counsel for Rowan Water, Inc.

### **CERTIFICATE OF SERVICE**

	This	is to	o cer	tify	that	foreg	going	was	subm	itted	electr	onically	to	the	Commiss	sion or
August	30,	2025	and	that	ther	e are	no p	arties	that	have	been	excused	fro	m e	electronic	filing.
Pursuan	it to p	prior	Com	missi	ion o	rders,	no p	aper c	copies	of th	is filir	ng will be	e su	bmi	tted.	

Merchant Cauce

Counsel for Rowan Water, Inc.

## Exhibit 1

COMMONWEALTH OF KENTUCKY	)
	)
COUNTY OF FAYETTE	)

### **AFFIDAVIT**

L. Allyson Honaker of Honaker Law Office, PLLC, Counsel for Rowan Water, Inc., being duly sworn, states that:

- 1. She has served as organizer and presenter of the water training program entitled "Rowan Water 2025 Training" in the above-referenced case.
- 2. The second and final installment of "Rowan Water 2025 Training" was held on August 14, 2025, at the offices of Rowan County Water Association, 1765 Christy Creek Road, Morehead, Kentucky 40351.
- 3. The presentation on cyber security listed in the proposed agenda submitted to the Kentucky Public Service Commission in this matter was conducted for the length of time specified, a total of 1 hour of instruction.
- 4. Each attendee was provided in paper medium a copy of the agenda and the presentation was provided in electronic form.

L. Allyson Honker

HONAKER LAW OFFICE, PLLC 1795 Alysheba Way, Suite 1203 Lexington, Kentucky 40509 (859) 489-4667

allyson@hloky.com

The foregoing Verification was signed, acknowledged and sworn to before me this 20th day of August 2025, by L. Allyson Honaker of Honaker Law Office, PLLC, Counsel for Rowan Water, Inc.. Heather S. Temple

> KYNP98715 Notary Commission No.

Commission expiration: April 9 20229

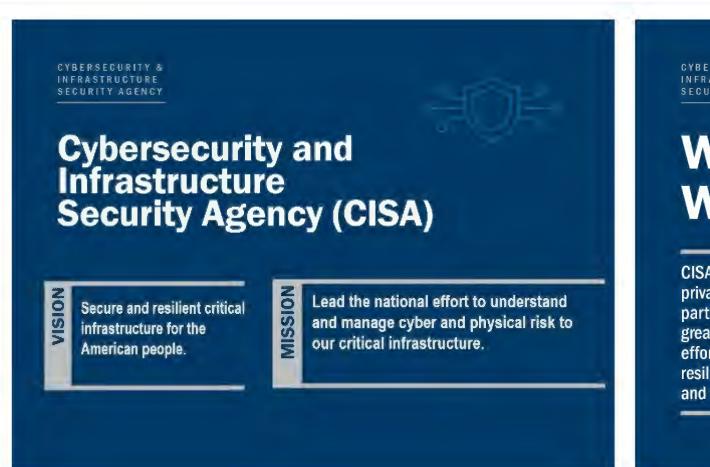
## Exhibit 2





CYBERSECURITY & INFRASTRUCTURE SECURITY AGENCY

## **Critical Infrastructure Protection**







# 16 Critical Infrastructure Sectors & Corresponding Sector-Specific Agencies

CHEMICAL	DHS (CISA)	FINANCIAL	Treasury
COMMERCIAL FACILITIES	DHS (CISA)	FOOD & AGRICULTURE	USDA & HHS
COMMUNICATIONS	DHS (CISA)	GOVERNMENT GS	A & DHS (FPS)
CRITICAL MANUFACTURING	DHS (CISA)	HEALTHCARE & PUBLIC HEALTH	HHS
DAMS	DHS (CISA)	INFORMATION TECHNOLOGY	DHS (CISA)
DEFENSE INDUSTRIAL BASE	DOD	NUCLEAR REACTORS, MATERIALS AND WAST	E DHS (CISA)
EMERGENCY SERVICES	DHS (CISA)	TRANSPORTATIONS SYSTEMS	(TSA & USCG)
<b>ENERGY</b>	DOE	WATER WATER	EPA Jo

## **CISA Regions**

Boston, MA

**New York, NY** 

Atlanta, GA

Chicago, IL

Irving, TX

Philadelphia, PA

Kansas City, MO

Lakewood, CO

Oakland, CA

Seattle, WA

Pensacola, FL



## **Protective Security Advisors**

- Protective Security Advisors have five mission areas that directly support the protection of critical infrastructure:
  - Plan, coordinate, and conduct security surveys and assessments
  - Plan and conduct outreach activities
  - Support National Special Security Events (NSSEs) and Special Event Activity Rating (SEAR) events
    - World Games, 60<sup>th</sup> Anniversary of "Bloody Sunday", Mardi Gras, Rock the South, NASCAR 500
  - Respond to incidents, provide a vital link for information sharing in steady state and incident response
  - Coordinate and support improvised explosive device awareness and risk mitigation training



# CISA Priorities- Target Rich/ Cyber Poor

**Healthcare - K-12 Schools - Water/Wastewater** 









## Water-Wastewater Sector Toolkit

- Water and Wastewater Cybersecurity | CISA
  - Specific Alerts and Advisories for Water/Wastewater Sector
  - EPA Resources
  - Incident Response Guide
  - Funding Resources
  - CISA Live Events on Water/Wastewater





## **Cyber Threats of Today**

## **Business Email Compromise**

- 2 Billion in Loss
- Credential Stealing
- Phishing/ PopUps/ Poison Domains/ Onsite Exchange Vulnerabilities
- Steals Data
- Finance Diversions
- SupplyChain/External Dependencies Exploitation

### **Ransomware**

- 700K per Victim
- Ransomware-As-A-Service Brokers Gootloader
- Phishing-As-A-Service Greatness (M365 exploitations)
- Lockbit, Blackcat, Blacksuit, AlphV, Conti, Darkside
- Russian and North Korea State Actors
- Steals and Encrypts Data
- Double Extortion
  - **Destructive Malware Trends- Russia** 
    - Hermeticwiper and Wispergate

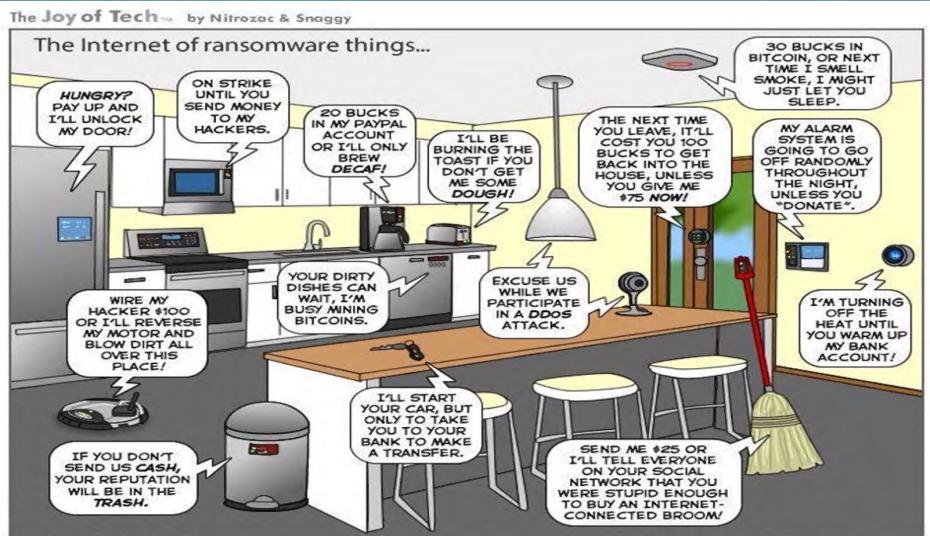
### **Denial of Service**

- Russian-affiliated KILLNet Group
  - Feb 2023 Coordinated DDoS of Healthcare
- Dark Storm and Anonymous Sudan
  - Russian-Affiliated
  - Aug 2023 and March 2024 Threats to CI

## **Common Defensive Measures**

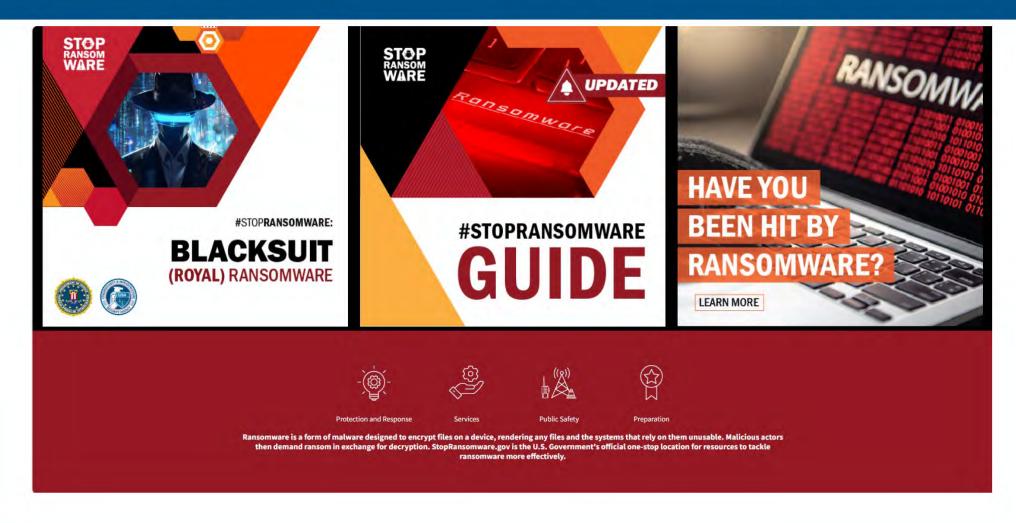
- Multifactor Authentication (MFA)
- Backups- Off Network
- Vulnerability Management Patching
- Configuration Management RDP, SMB, etc
- Log Management and Review

## Ransomware: Infects...Encrypts...Extorts





## **#Stop Ransomware - Resources**





## **Events of interest**

### Ransomware

- Social engineering- phishing and malware
  - Gootloader- asset management important
- Ransomware notifications via phone calls and voicemails
- Encrypted a network via an IP Camera

### Hactivists

- Cyber Av3ngers targeting Unitronics PLCs and default passwords
- Pro-Russian targeting HMIs via VNC protocol over default port 5900

## Volt Typhoon

 People's Republic of China (PRC) state-sponsored cyber actors are seeking to preposition themselves on IT networks for disruptive or destructive cyberattacks against U.S. critical infrastructure in the event of a major crisis or conflict with the United States.

# ICS/OT Threat – CyberAv3ngers

- IRGC-Affiliated Cyber Actor
- Exploited PLCs in Multiple U.S. Critical Infrastructure Sectors (Nov-Dec 2023)
  - Water/Wastewater, Health, Food, Energy, Manufacturing
  - Water/Wastewater primary target with 60 percent of activity
- Targeted Israeli-made Unitronics Vision Series PLCs/ Human-Machine-Interfaces (HMI)
  - However, likely pivot to other venders
- Most exploitations took advantage of "Default" passwords (1111) and direct
  - exposure to the internet.
- Group used destructive wiper malware in past



# Pro-Russian Hacktivist Targeting

- Defending OT Operations Against Ongoing Pro-Russian Threats
- Joint Advisory Published May 2024
- Pro-Russian hacktivist groups ongoing activity against US and Europe
- Targeting Operational Technology (OT)/ ICS in Critical Infrastructure
- Primary Targets: Water/Wastewater, Dams, Energy, Food and Agriculture
- Exploitations of internet-exposed ICS through their software components, such as human machine interfaces (HMIs), virtual network computing (VNC) remote access software, and PLCs.
- Leveraging default passwords; weak passwords; lack of multi-factor



# Pro-Russian Hacktivist Targeting cont...

- Physical disruptions from attacker remotely manipulating HMIs.
- Caused water pumps and blower equipment to exceed their normal operating parameters.
- Maxed out set points, altered other settings (Ladder Diagram Logic), turned off alarm mechanisms, and changed administrative passwords to lock out the WWS operators.
- Some victims experienced minor tank overflow events; however, most victims reverted to manual controls in the immediate aftermath and quickly restored operations.



Published 13 Dec 24

Threat actors can exploit exposed HMIs at WWS Sector utilities to view the contents of the HMI, make unauthorized changes, and potentially disrupt the facility's water and/or wastewater treatment process.

In the absence of cybersecurity controls, unauthorized users can exploit exposed HMIs in Water and Wastewater Systems to:

- View the contents of the HMI (including the graphical user interface, distribution system maps, event logs, and security settings) and
- Make unauthorized changes and potentially disrupt the facility's water and/or wastewater treatment process.

Internet-Exposed HMIs Pose Cybersecurity Risks to Water and Wastewater Systems | CISA



In 2024, pro-Russia hacktivists manipulated HMIs at Water and Wastewater Systems, causing water pumps and blower equipment to exceed their normal operating parameters. In each case, the hacktivists maxed out set points, altered other settings, turned off alarm mechanisms, and changed administrative passwords to lock out the water utility operators. These instances resulted in operational impacts at water systems and forced victims to revert to manual operations.



## **Mitigations**

- Conduct an inventory of all internet-exposed devices.
- If possible, disconnect HMIs and all other accessible and unprotected systems from the public-facing internet.
- If it is not possible to disconnect the device, secure it by creating a username and strong password to prevent a threat actor from easily viewing and accessing the devices. Change factory default passwords.
- Implement a strong password and multifactor authentication (MFA) for all access to the HMI and OT network.
- Implement network segmentation by enabling a demilitarized zone (DMZ) or a bastion host at the OT network boundary.
- Implement geo-fencing across the entire network and enforce network segmentation based on specific locations.



Defending OT Operations Against Ongoing Pro-Russia Hacktivist Activity

## **Mitigations**

- Keep all systems and software up to date with patches and necessary security updates.
- Establish an allowlist that permits only authorized IP addresses to access the devices.
- Log remote logins to HMIs; be aware of failed attempts and unusual times.
- Implement your vendor's recommendations for best securing your product.
- Sign up for CISA's free cybersecurity vulnerability scanning service to identify software vulnerabilities and confirm that patching is up to date and done correctly.



## **Volt Typhoon**

- Chinese state-sponsored threat actor using stealth techniques and targeted malicious activity aimed at critical infrastructure organizations in the United States
- Observed behavior suggests that the threat actor goal to maintain access without being detected for as long as possible
- Volt Typhoon pursues capabilities to disrupt critical infrastructure during future crises
- Affected Sectors Include:
  - Communications
  - Manufacturing
  - Utility

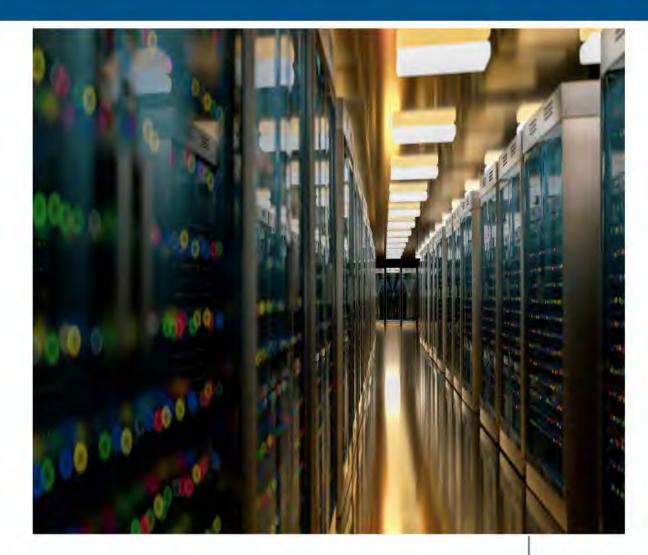
- Construction
- Maritime
- Government

- Education
- Transportation
- Information technology



# **Living Off the Land (LOTL)**

- Sophisticated cyberattack technique that leverages legitimate tools already present within a victim's system to execute and sustain an attack
  - Bypasses traditional signature-based defenses (Behavioral Vs. Signature Analysis is key)
  - Windows Management Instrumentation
  - PowerShell
  - Scheduled Tasks Actions
  - C2- Home User Networks
  - FTP, SMB, and SSH
  - Log Deletion (Event 1102)

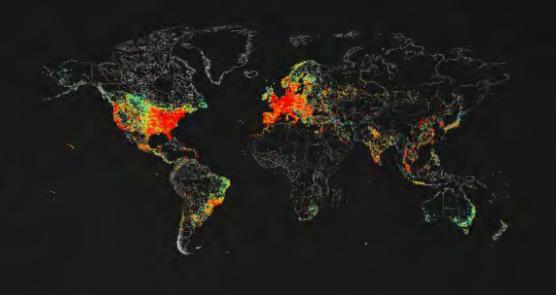




## Search Engine for the Internet of Everything

Shodan is the world's first search engine for Internetconnected devices. Discover how Internet intelligence can help you make better decisions.

SIGN UP NOW



TLP:WHITE

Shodan (<u>www.shodan.io</u>) is a web-based search platform for Internet connected devices. This tool can be used not only to identify Internet connected computers and Internet of Things/Industrial Internet of Things (IoT/IIoT), but also Internet connected Industrial Control Systems (ICS) and platforms.



## RDP Search-KY

🔀 SHODAN

Explore

Downloads

Pricing 2

state:ky port:3389

Q

**TOTAL RESULTS** 

512

More...

More...

### **TOP ORGANIZATIONS**

Charter Communications Inc	170
AT&T Enterprises, LLC	47
CINCINNATI BELL	25
Private Customer - AT&T Internet S.	16
AT&T Services, Inc.	14

#### TOP OPERATING SYSTEMS

Windows (build 10.0.19041)	169	
Windows 11 (build 10.0.26100)	70	
Windows 11 (version 22H2) (build 1.	49	
Windows (build 10.0.14393)	41	
Windows Server 2022 (build 10.0.20.	41	



₩ View Report & Download Results W Historical Trend Browse Images W View on Map Q A Access Granted: Want to get more out of your existing Shodan account? Check out everything you ha Remote Desktop Protocol \x03\x00\x00\x13\x0e\xd0\x00\x00\x124\x00\x02\x1f\x08\x00\x02\ Issued By: Remote Desktop Protocol NTLM Info: - Common Name: Server2019.monroepva.local OS: Windows 10 (version 1809)/Windows Server 2019 (version 1 OS Build: 10.0.17763 Issued To: - Common Name: NetBIO5 Server2019.monroepva.local NetBIOS Comput... Supported SSL Versions: TLSv1, TLSv1.1,



TLSv1.2

Issued By: - Common Name: Igor-PC

Issued To: - Common Name: Igor-PC

Supported SSL Versions: TI Sv1 TI Sv1 1

Remote Desktop Protocol

\x03\x00\x00\x13\x0e\xd0\x00\x00\x124\x00\x02\x1f\x08\x00\x02\ Remote Desktop Protocol NTLM Info:

OS: Windows 10 (version 2004)/Windows Server (version 2004)

OS Build: 10.0.19041 Target Name: IGOR-PC

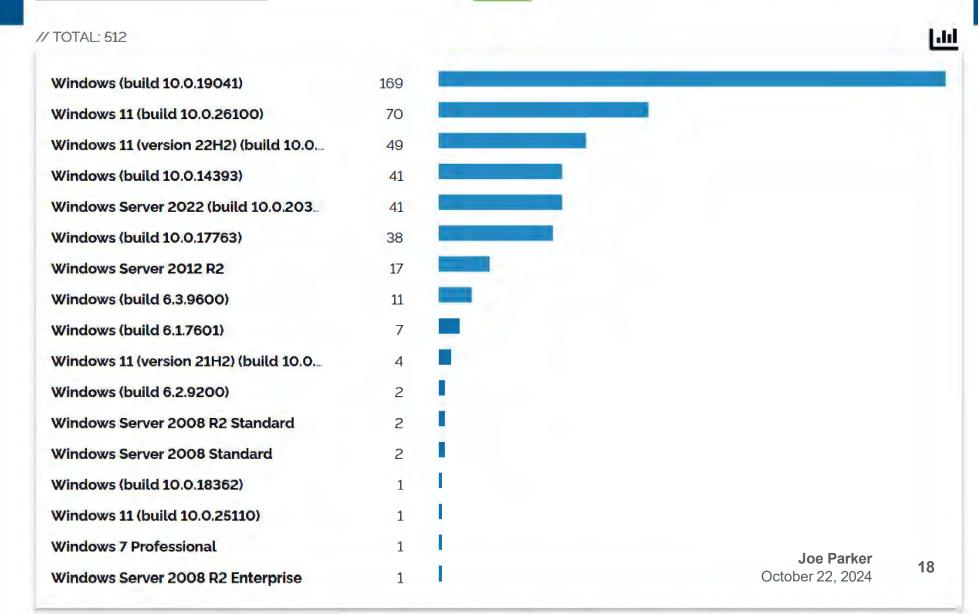
NetBIOS Domain Name: IGOR-PC NetBIOS Computer Name: ...

Joe Parker October 22, 2024



## RDP Sear st. te. cy pc. rt: \( \) 189

st\_te\_ky pc.rt:5 189 os •



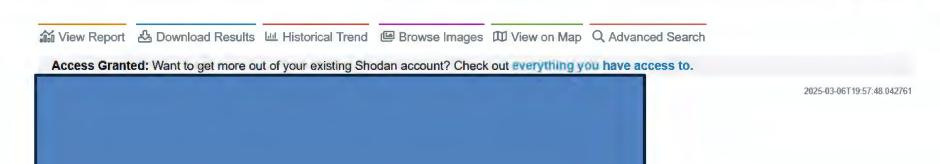


## ICS Screenshot Search - Worldwide

screenshot.label:ics



More...



Q



Accour

## PLC Search: KY



**Explore** 

Pricing 2 Downloads

state:ky "allen bradley"

#### TOTAL RESULTS

48

#### TOP PORTS

44818 161

TOP ORGANIZATIONS Wireless Data Service Provider Corporat... 26 AT&T Mobility LLC 10 **Charter Communications Inc** 3 NORTH CENTRAL TELEPHONE COOPER... 3 Limestone Cable Vision, Inc.

### TOP PRODUCTS

More...

Rockwell Automation/Allen-Bradley 31 Schweizerische Bankgesellschaft Zuerich 1







Product Spotlight: We've Launched a new API for Fast Vulnerability Lookups. Check out CVEDB



United States, Mayfield



Product name: 1766-L32BWAA B/15.04

Vendor ID: Rockwell Automation/Allen-Bradley

Serial number: 0x4064ffba

Device type: Programmable Logic Controller

Device IP: 192,168,10,199



South Central Rural **Telecommunications** Cooperative Inc.

United States, Horse Cave

ics



Product name: 1766-L32AWAA B/13.00

Vendor ID: Rockwell Automation/Allen-Bradley

Serial number: 0x4062325e

Device type: Programmable Logic Controller

Device IP: 192,168,100,50

Product name: 1766-L32AWA C/21.02

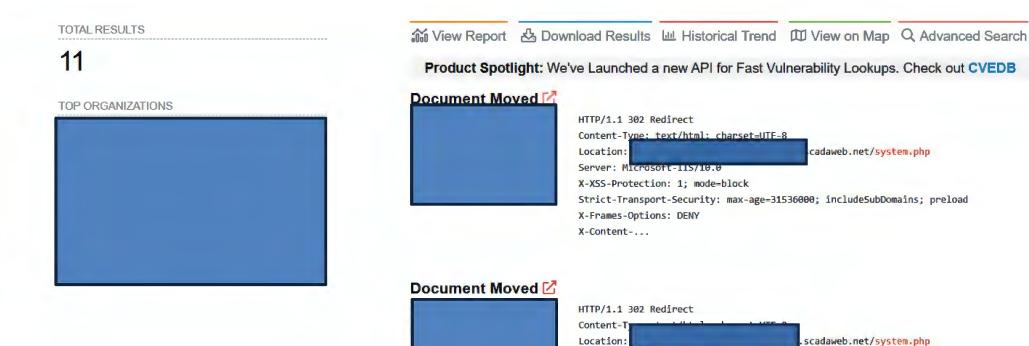
Vendor ID: Rockwell Automation/Allen-Bradley

Serial number: 0x60e4d95f

Device type: Programmable Logic Controller

Device IP: 10.5.10.31

## Specific SCADA Search: KY







HTTP/1.1 302 Redirect

Server: Microsoft-II5/10.0 X-Powered-By: ASP.NET

V VCC Doctaction: 1: mode block

X-Frames-Op...

Server: Microsoft-IIS/10.0 X-Powered-By: ASP.NET

X-XSS-Protection: 1; mode=block

Content-Type: text/html; charset=UTF-8 Location:

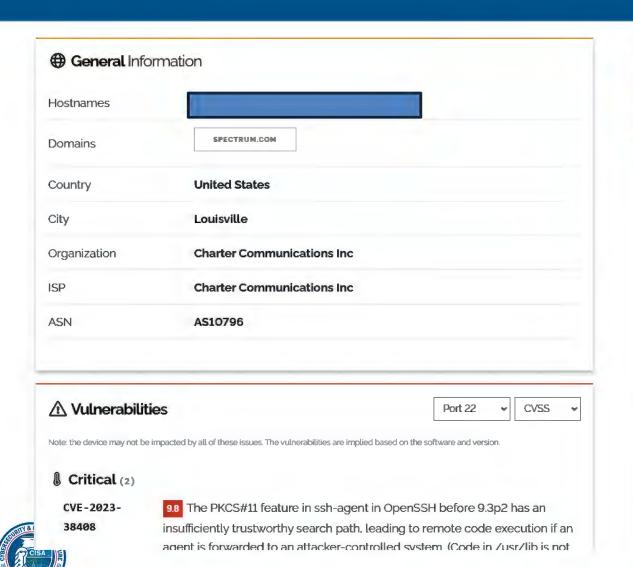
scadaweb.net/system.php

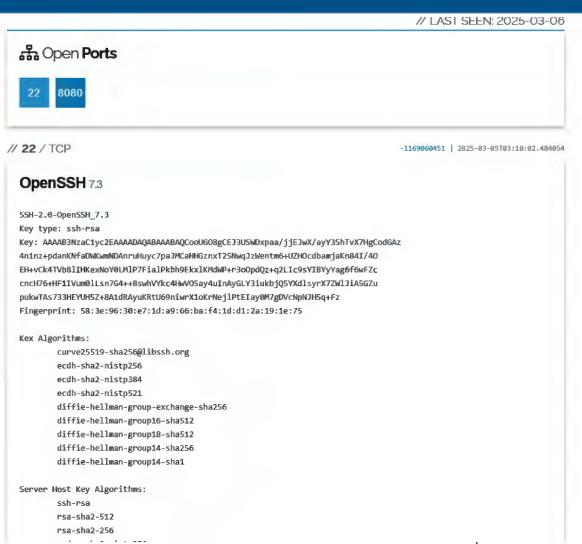
Strict-Transport-Security: max-age=31536000; includeSubDomains; preload

Joe Parker October 22, 2024

33

## **Open Vulnerabilities**





# Stuff Off Search

Shodan	Censys	Thingful
Shodan is a web-based search platform for internet connected devices.  Key features: Identify Internet connected devices, Internet of Things/Industrial Internet of Things/Industrial Internet of Things (IoT/IIoT), and industrial control systems (ICS). Potential exploits. Default passwords. Integrations with vulnerability tools, logging aggregators and ticketing systems allow Shodan to be seamlessly integrated into an enterprise.  https://www.shodan.io	Censys is a web-based risk management tool that helps identify publicly accessible assets —even if they can't be scanned by a vulnerability management tool.  Key features:  Home network risk identifier (HNRI), allowing employers to anonymously monitor staff's home network infrastructure for vulnerabilities that may pose a risk to the company.  Exposed routers.  Default credentials.  Popular vectors for ransomware.  https://www.censys.io	<ul> <li>Thingful is a search engine for the Internet of Things (IoT).</li> <li>Key features:         <ul> <li>Searchable index of public and private connected objects and sensors around the world.</li> <li>Monitors IoT networks and infrastructures including energy, radiation, weather, and air quality devices.</li> </ul> </li> <li>Reports seismographs, iBeacons, vehicles, ships, aircraft and animal trackers. The tool assists with response by enabling end users to create watchlists and publications on public/private IoT resources.</li> <li>https://www.thingful.net/</li> </ul>



# Operational Technology (OT) Vulnerabilities

- Building Automation Systems (BAS) BACNet Field Panels (BFP)
  - HVAC Systems Control- elevators, lighting, emergency services, sensors, access control, etc.
- Utility PLCs (programable logic controllers) and Human Machine Interface (HMI)
- Camera Systems
- Specialty Equipment (Vender Maintained)
- Diagnostic Systems CT, Ultrasound, MRI, Imaging etc.
  - Picture Archiving Communication System (PACS) network
  - Digital Imaging and Communications in Medicine (DICOM) format
- Medical Devices Infusion pumps, patient monitors



## **CISA ICS No-Cost Virtual Training**

- Operational Security (OPSEC) for Control Systems (100W) 1 hour
- Differences in Deployments of ICS (210W-1) 1.5 hours
- Influence of Common IT Components on ICS (210W-2) 1.5 hours
- Common ICS Components (210W-3) 1.5 hours
- Cybersecurity within IT & ICS Domains (210W-4) 1.5 hours
- Cybersecurity Risk (210W-5) 1.5 hours
- Current Trends (Threat) (210W-6) 1.5 hours
- Current Trends (Vulnerabilities) (210W-7) 1.5 hours
- Determining the Impacts of a Cybersecurity Incident (210W-8) 1.5 hours
- Attack Methodologies in IT & ICS (210W-9) 1.5 hours
- Mapping IT Defense-in-Depth Security Solutions to ICS Part 1 (210W-10) 1.5 hours
- Mapping IT Defense-in-Depth Security Solutions to ICS Part 2 (210W-11) 1.5 hours
- Industrial Control Systems Cybersecurity Landscape for Managers (FRE2115) 1 hour

https://www.cisa.gov/ics-training-available-through-cisa



## Steps to take to be a bit more secure







Teach Employees to Avoid Phishing



Require Strong Passwords



Require Multifactor
Authentication



**Update Business Software** 



# **Phishing**

 Phishing - online messages designed to look like they're from a trusted source and/or hijack legitimate accounts intended to lure target to: click a <u>link</u>, open an <u>attachment</u>, or take an <u>action</u>.

### Common Red Flags:

- Urgent/ Emotionally Charged
- Requests to Send or Change Personal/ Finance Info
- Unexpected/ Suspicious Attachments (uncommon naming/ file types)
- Untrusted/Suspicious Links (URL mismatches)
- Email Addresses Do Not Match Sender
- Official Emails Originating from Outside Company
- Too Good To Be True

- Mitigation:
  - Resist and Report
    - Spam Organization
    - Blocks Current Sender
  - Delete
    - Avoid Unsubscribe Link
      - Could Be Malicious

## **Password Defense**



### Make them long

At least 16 characters—longer is stronger!





### Make them random

Two ways to do this are:

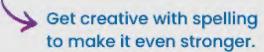
Use a random string of letters (capitals and lower case), numbers and symbols (the strongest!):

cXmnZK65rf\*&DaaD

Create a memorable passphrase of 5-7 unrelated words:

HorsPerpleHatRunBayconShoos







### Make them unique

Use a different password for each account:

k8dfh8c@Pfv0gB2

LmvF%swVR56s2mW

e246gs%mFs#3tv6



Use a password manager to remember them.

# Multifactor Authentication (MFA)

- MFA (two-factor): Confirms Our Identities.
- Highly Impactful Defense Against Cyber Attacks.
- Enable on EVERY account and Device possible.





# **Software Updates**

- Install Updates to fix Security Risks.
  - Mobile Phones, Computers/ Tablets, Operating Systems, Software, Web Browsers, Watches, Network and Security Equipment, IoT
- Time is Critical once Vulnerabilities are known.
- Turn on Automatic Updates
- Watch for Notifiers Not every update can be automatically installed

**Automatic Updates** 





# **Home Network Security**

#### Webcam

 Cover cameras when not in use.



#### Web Browser

 Ensure transit security encryption, usually with a lock icon in the address bar.

External Storage

Back up data on

external drives or portable media.



#### **Home Assistance**

- Limit nearby sensitive conversations.
- Mute microphones when not in use.



### (<u>(a)</u>

#### Laptop/Computer

- Utilize a non-privileged "user" account for everyday activities.
- Update with the latest patches, preferably through automatic updates.



### Wireless Access Point/Router - Use WPA3 or WPA2/3 with

- protected management frames.
- Update with the latest patches, preferably through automatic updates.
- Schedule weekly reboots.



### ISP Router Management

- Change Default Password
- Enable Firewall
- Enable Network Address Translation (NAT



NSA-Best Practices For Securing Your Home Network

# **Mobile Device Security**

- Enable User Authentication (Passcode)
- Install Updates
- Restart Phone Often (Memory Dump)
- Create backups
- Reinstall From backups Occasionally (After Foreign Travel or Loss of Control)
- Only Download Apps from Legitimate Sources
- Limit Remote Sharing
- Limit Public Exposure
  - Change Device Name



# CISA Services



# Cybersecurity Resources

### **Partnership Development**

- Outreach Activities
- Informational Exchanges (individual, group, etc.)
- Committees and Working Groups support
- Symposiums/ Conferences/ Webinars/ Cyber Camps

### **Stakeholder Preparedness**

- Cybersecurity Workshops
- Technical Exchange
- Introductory Visits and Cyber Protective Visits (CPVs)
- Cyber Exercises support/ <u>Tabletop Exercises</u>
- Awareness and Cyber Threat Training/ Briefings

#### **Assessments**

- Cybersecurity Performance Goals assessments (CPGs)
- Ransomware Readiness Assessments (RRAs)
- Cyber Resilience Reviews (CRRs)
- External Dependency Management Assessments (EDMs)

### **Vulnerability Scanning**

- Cyber Hygiene Service (Public Attack Surface)
  - Known Exploitable Vulnerabilities (KEV)
- Web Application Scanning
- Penetration Testing



## Ransomware Vulnerability Warning Pilot (RVWP)

A new effort to warn critical infrastructure entities that their systems have exposed vulnerabilities that may be exploited by ransomware threat actors.

 Leverages existing authorities and technology to proactively identify information systems that contain security vulnerabilities commonly associated with ransomware attacks.

- CISA's Cyber Hygiene Vulnerability Scanning
- Known threat vectors
- Administrative Subpoena Authority
- Homeland Security Act of 2002





### **Protected Critical Infrastructure Information Program**

### Protected Critical Infrastructure Information (PCII) Program Guards Your Information

Sensitive critical infrastructure information voluntarily given to CISA is protected by law

from

- Public release under Freedom of Information Act requests,
- Public release under State, local, tribal, or territorial disclosure laws,
- Use in civil litigation and
- Use in regulatory purposes.





## Vulnerability Scanning by CISA (Cyber Hygiene)

Known exploited vulnerabilities are easy access for attackers, with incidents averaging \$100,000 in damages for small and medium businesses.









CISA's <u>free</u> vulnerability scanning service helps identify exposed assets and exploitable vulnerabilities and is proven to reduce risk for participating organizations.

Avoid costly disruptions with early detection and action. Through weekly reports and timely alerts, we will help you act before others take advantage.

Auto enrollment with CISA Ransomware Vulnerability Warning



#### BY THE NUMBERS

- 7,200+ current customers nationwide
- Over 3 Million vulnerabilities found and fixed
- On average a 40% reduction in risk and exposure by newly enrolled customers in their first 12 months
- Most enrollees see improvements within the first 90 days

### **GETTING STARTED**

Email <u>vulnerability@cise dhs gov</u>
Subject: "Requesting Vulnerability Scanning
Services"

Joe Parker October 22, 2024

### Vulnerability Scanning Report

### **High Level Findings**

- Latest Scans
- Addresses Owned
- Addresses Scanned
- Hosts
- Services
- Vulnerable Hosts
- Vulnerabilities

#### **Vulnerabilities**

- Severity by Prominence
- Vulnerability Response Time
- Potentially Risky Open Services



**Dashboard Coming Soon** 



# Cyber Performance Goals (CPG)

- A common baseline of cybersecurity practices that <u>all critical infrastructure</u> <u>entities</u> should implement to meaningfully reduce the likelihood and impact of known risks and adversary techniques.
- IT and operational technology (OT) cybersecurity practices that meaningfully reduce the likelihood and impact of known risks and adversary techniques
- Informed by real-world threats and adversary tactics, techniques, and procedures (TTPs)
- Aids in identifying areas for potential future investment





# **CPG Effectiveness – Cyber Hygiene Service**

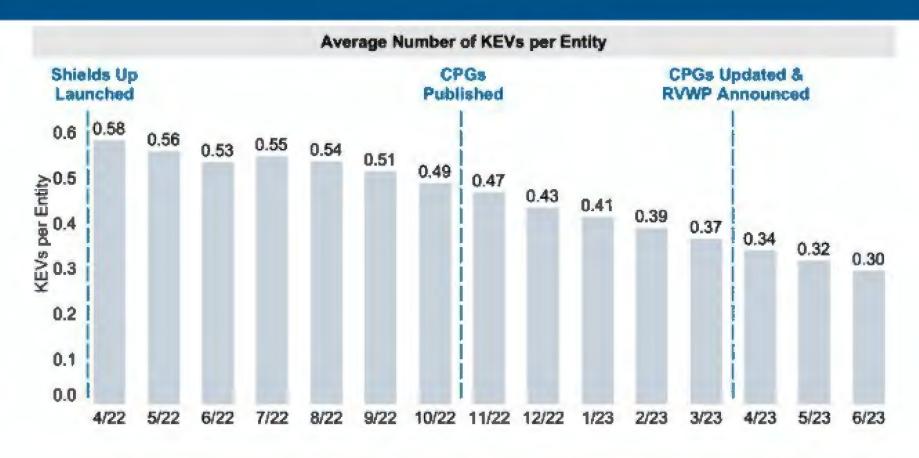
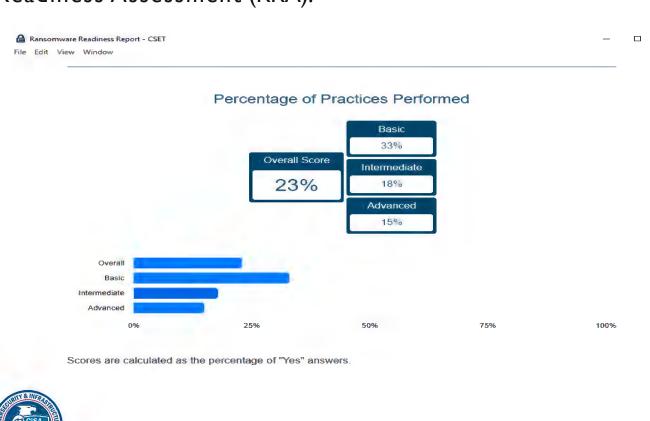


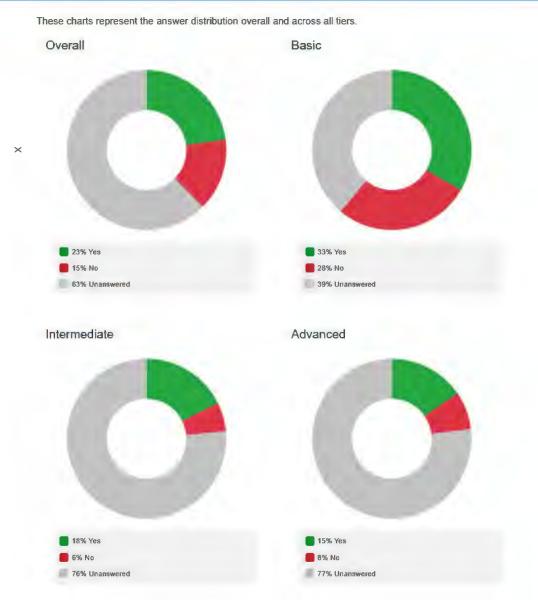
Figure 1: With publication of the CPGs, organizations enrolled in vulnerability scanning continued to demonstrate reductions in KEVs on their networks.



### Ransomware Readiness Assessment

To understand your cybersecurity posture and assess how well your organization is equipped to defend and recover from a ransomware incident, take the Ransomware Readiness Assessment (RRA).





# **CISA No-Cost Cybersecurity Tools**

Water and Wastewater Cybersecurity | CISA

Free Cybersecurity Services & Tools | CISA

**Known Exploited Vulnerabilities Catalog | CISA** 

**Cyber Hygiene Vulnerability Scanning | CISA** 

Ransomware Vulnerability Warning Pilot (RVWP) | CISA

**Cross-Sector Cybersecurity Performance Goals | CISA** 

Downloading and Installing CSET | CISA

Logging Made Easy | CISA

**Untitled Goose Tool** 

Industrial Control Systems | Cybersecurity and Infrastructure Security Agency CISA

**Secure Cloud Business Applications (SCuBA) Project | CISA** 

GitHub - cisagov/ScubaGear: Automation to assess the state of your M365 tenant against CISA's baselines

Hybrid Identity Solutions Guidance (HISG)

Subscribe to Updates and Alerts from CISA | CISA

https://www.cisa.gov/sites/default/files/publications/FINAL-CSSO-Protective\_DNS-Fact\_Sheet.pdf

CIS Critical Security Controls Version 8 (cisecurity.org)

<u>Information Security Policy Templates | SANS Institute</u>



Malware Next-Generation Analysis | CISA



# **Malcolm Components**



TCPDUMP

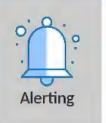


**CAPA** 









OpenSearch Alerting

Plugin



























beats









### Report an Incident

CISA: <u>cisa.gov/report</u>; <u>report@cisa.gov</u>, (888) 282-0870

■FBI/ Internet Crime Complaint Center (IC3): ic3.gov



# Final Thoughts: Cyber Threat Mitigations

- Secure Access Passwords and MFA for Remote Access
  - Change Default Passwords
- Reduce Attack Surface (Configuration Control)
  - Asset Identification Vulnerability Patch Management
- Network Segmentation
- Aggressive Logging and Threat Hunting
- Firewall Whitelisting/ Allow List (IP and Apps) (Outbound and Inbound)



### **No-Cost** CISA Cybersecurity Services

### Preparedness Activities

- Cybersecurity Assessments
- Cybersecurity Training and Awareness
- Cyber Exercises and "Playbooks"
- Information / Threat Indicator Sharing
- National Cyber Awareness System
- Vulnerability Notes Database
- Information Products and Recommended Practices





### Response Assistance

- 24/7 Response assistance and malware analysis
- Incident Coordination

visit https://www.cisa.gov

- Threat intelligence and information sharing
- Cybersecurity Advisors Regionally deployed advisors
  - Incident response coordination
  - Public Private Partnership Development
  - Advisory assistance and cybersecurity assessments

### **CISA Contact Information**

Colin Glover Ryan Lewis	colin.glover@cisa.dhs.gov ryan.lewis@cisa.dhs.gov
CISA URL	https://www.cisa.gov
To Report a Cyber Incident to CISA	Call 1-888-282-0870 Email <u>CISAservicedesk@cisa.dhs.gov</u>

### Exhibit 3

Attendance	Rowan County Summer Training				
August 14, 2025					
NAME	Water Utility	DW#/WW#	Signature	Hours	
Jerry Patrick	Rowan Water Inc.		My Male	ર 1	
Larry Johnson	Rowan Water Inc.		Spirite June	_ 1	
Mike Collins	Rowan Water Inc.		Mall -	1	
Enoch Blair Randy	Rowan Water Inc.		Ench	_1	
Cox	Rowan Water Inc.		Landardo	_1	
Ronnie trop	Remandater	,			
7.	Rowan Water		~ 0 -	1	
<b>Duane Dehart</b>	Inc.		Dunan	1	
		_			
_					
			_		