

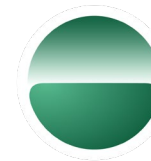


12TH ANNUAL LEADERSHIP EVENT

CYBER SECURITY SUMMIT

Security solutions through collaboration.™

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CYBER SECURITY SUMMIT
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12th Annual Cyber Security Summit | October 24-26, 2022

cybersecuritysummit.org

DHS Intelligence and Analysis Threat Assessment



Karissa Zamora

Intelligence & Analysis,
DHS – Office of
Regional Intelligence



CYBER SECURITY
Summit
Security solutions through collaboration™

12th Annual Cyber Security Summit | October 24-26, 2022

cybersecuritysummit.org

Nontechnical Actions to Enhance Cybersecurity Posture



Chris Gabbard

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Region 5, CISA



US Department of Homeland Security

**CISA | CYBERSECURITY AND
INFRASTRUCTURE SECURITY
AGENCY**

**DHS Office of
Intelligence & Analysis
(I&A) Cyber Mission
Center**





Cyber Summit: Cyber Threat Actor Overview

25 Oct 2022

The overall classification of this exchange is:

UNCLASSIFIED

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Cyber Threat Actors

CYBERSECURITY &
INFRASTRUCTURE
SECURITY AGENCY

Cybersecurity and Infrastructure Security Agency (CISA)

VISION

Secure and resilient
infrastructure for the
American people.

MISSION

We lead the National effort
to understand, manage, and
reduce risk to our cyber and
physical infrastructure.



OVERALL GOALS

GOAL 1

DEFEND TODAY

Defend against urgent
threats and hazards

seconds | days | weeks

GOAL 2

SECURE TOMORROW

Strengthen critical
infrastructure and
address long-term risks

months | years | decades

CYBERSECURITY &
INFRASTRUCTURE
SECURITY AGENCY

Our Work

The Cybersecurity and Infrastructure Security Agency (CISA) works with partners to defend against today's threats and collaborating to build more secure and resilient infrastructure for the future



PARTNERSHIP
DEVELOPMENT



INFORMATION AND
DATA SHARING



CAPACITY BUILDING



INCIDENT
MANAGEMENT
& RESPONSE



RISK ASSESSMENT
AND ANALYSIS



NETWORK DEFENSE



EMERGENCY
COMMUNICATIONS

Critical Infrastructure

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 FACILITIES	GSA & 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 WASTE	DHS (CISA)
 EMERGENCY SERVICES	DHS (CISA)	 TRANSPORTATIONS SYSTEMS	(TSA & USCG)
 ENERGY	DOE	 WATER	EPA



80% of critical infrastructure is owned and/or operated by the private sector

Cybersecurity Awareness Month

Since 2004, October is celebrated as Cybersecurity Awareness Month, previously called National Cybersecurity Awareness Month. Now in its 19th year, Cybersecurity Awareness Month is a collaborative effort between government and industry to raise cybersecurity awareness nationwide and help ensure that all Americans have the resources they need to be safe and secure online.

The CISA is the federal lead for Cybersecurity Awareness Month with the National Cybersecurity Alliance (NCA) as co-lead.



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National Cybersecurity Alliance (staysafeonline.org)

Cybersecurity Awareness Month

Many users share some common misconceptions about their role in cybersecurity



- I'm not important enough to be at risk of a cyberattack
- My devices are "secure enough" right out of the box
- Cybersecurity Problems are I.T.'s problems
- The human factor will always be a vulnerability



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10/19/2022

Theme

The 2022 Campaign theme, See Yourself in Cyber, emphasizes that while cybersecurity may seem like a complex subject, ultimately, it's really all about people. This October, we will focus on the “people” part of cybersecurity, providing information and resources to help Americans make smart decisions on the job, at home, at school, and in the future.



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Action Steps

This year's campaign goal is to have everyone implement these four action steps to increase online security:

- **Enable Multi-Factor Authentication:** You need more than a password to protect your online accounts, and enabling MFA makes it 99% less likely you will get hacked
- **Use Strong Passwords:** Use passwords that are long, unique, and randomly generated.
- **Recognize and Report Phishing:** If a link looks a little off, think before you click. It could be an attempt to get sensitive information or install malware.
- **Update Your Software:** Don't delay – if you see a software updated notification, act promptly. Better yet, turn on automatic updates.



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Enable Multi-Factor Authentication

- It's More than a Password: Why We all Need Multi-factor Authentication
- If you can do just one thing to protect your online valuables, set up Multi-factor Authentication.
- It goes by many names: Two Factor Authentication. Multifactor Authentication. Two Step Factor Authentication. MFA. 2FA. They all mean the same thing: opting-into an extra step when trusted websites and applications ask you to confirm you're really who you say you are.



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Use Strong Passwords

- Creating strong passwords is an easy way to improve your cyber security. Strong passwords include one uppercase letter, one lowercase letter, at least one number and 11 or more characters. Be sure to use different passwords for different accounts.
- Use password managers to generate and remember different, complex passwords for each of your accounts. A password manager will encrypt passwords securing them for you!
- Put cybersecurity first by protecting the information stored on devices. Much of a user's personal information is stored either on their computer, smartphone, tablet or possibly someone else's system.



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Use Strong Passwords



TIME IT TAKES A HACKER TO BRUTE FORCE YOUR PASSWORD IN 2022

Number of Characters	Numbers Only	Lowercase Letters	Upper and Lowercase Letters	Numbers, Upper and Lowercase Letters	Numbers, Upper and Lowercase Letters, Symbols
4	Instantly	Instantly	Instantly	Instantly	Instantly
5	Instantly	Instantly	Instantly	Instantly	Instantly
6	Instantly	Instantly	Instantly	Instantly	Instantly
7	Instantly	Instantly	2 secs	7 secs	31 secs
8	Instantly	Instantly	2 mins	7 mins	39 mins
9	Instantly	10 secs	1 hour	7 hours	2 days
10	Instantly	4 mins	3 days	3 weeks	5 months
11	Instantly	2 hours	5 months	3 years	34 years
12	2 secs	2 days	24 years	200 years	3k years
13	19 secs	2 months	1k years	12k years	202k years
14	3 mins	4 years	64k years	750k years	16m years
15	32 mins	100 years	3m years	46m years	1bn years
16	5 hours	3k years	173m years	3bn years	92bn years
17	2 days	69k years	9bn years	179bn years	7tn years
18	3 weeks	2m years	467bn years	11tn years	438tn years

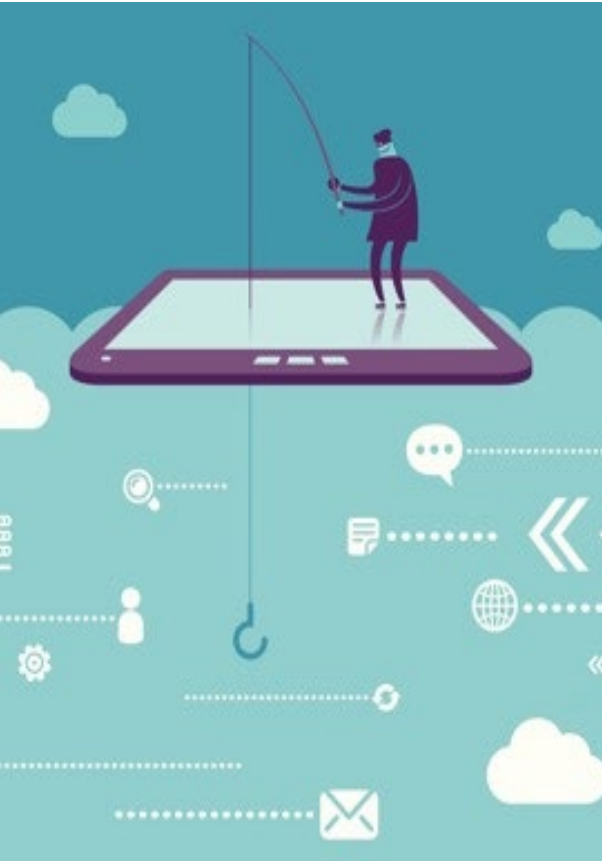


> Learn about our methodology at hivesystems.io/password

Recognize and Report Phishing



- Have you ever seen a link that looks a little off? It looks like something you've seen before, but it says you need to change or enter a password. Or maybe it asks you to verify personal information.
- It's likely a phishing scheme: a link or webpage that looks legitimate, but it's a trick designed by bad actors to have you reveal your passwords, social security number, credit card numbers, or other sensitive information. Once they have that information, they can use it on legitimate sites.



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Recognize and Report Phishing

Action requested: Please confirm activity



usbank / cartermf1@cox.net>

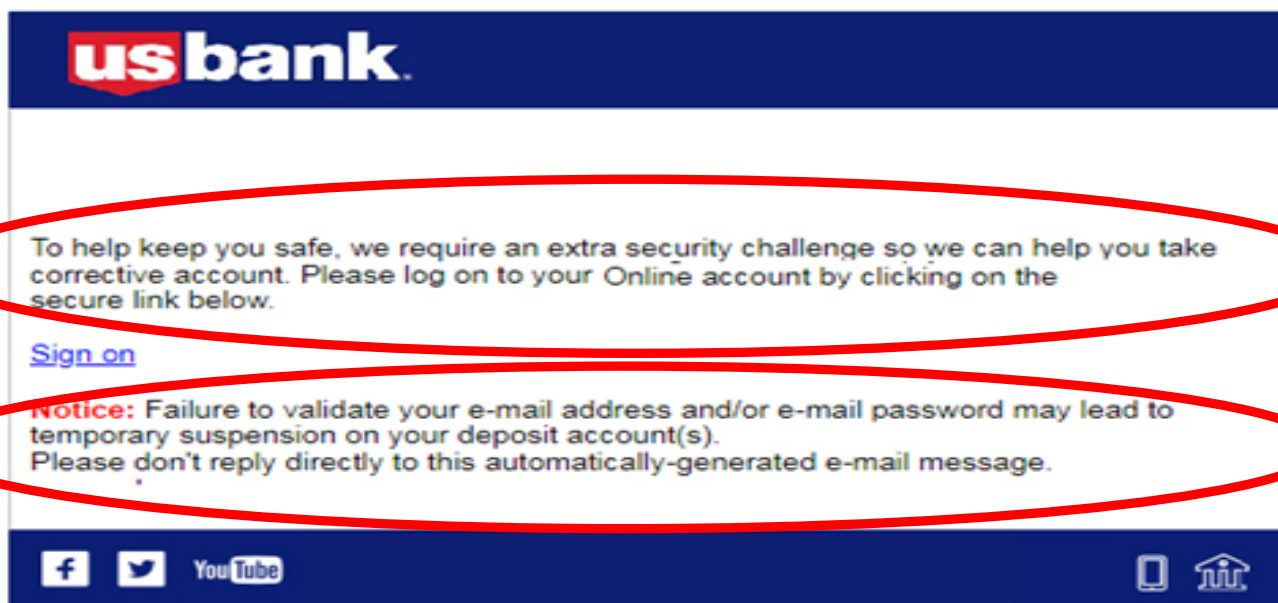
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Notice anything unusual about the “a” in usbank?

That’s an odd E-mail address to be associated a corporate E-mail

“take corrective account”
Is that how we normally speak?

Threatens adverse action for not complying



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As a valued customer of U.S. Bank, you are invited to become a member of the U.S. Bank Advisory Panel. If you would no longer like to receive invitations to join the panel and/or be removed from subsequent mailings regarding sweepstakes or contests conducted by U.S. Bank at this email address, you may [update your preferences here](#). Visa is a registered trademark of Visa International Service Association, and is used by the issuer pursuant to license from Visa U.S.A. Inc.

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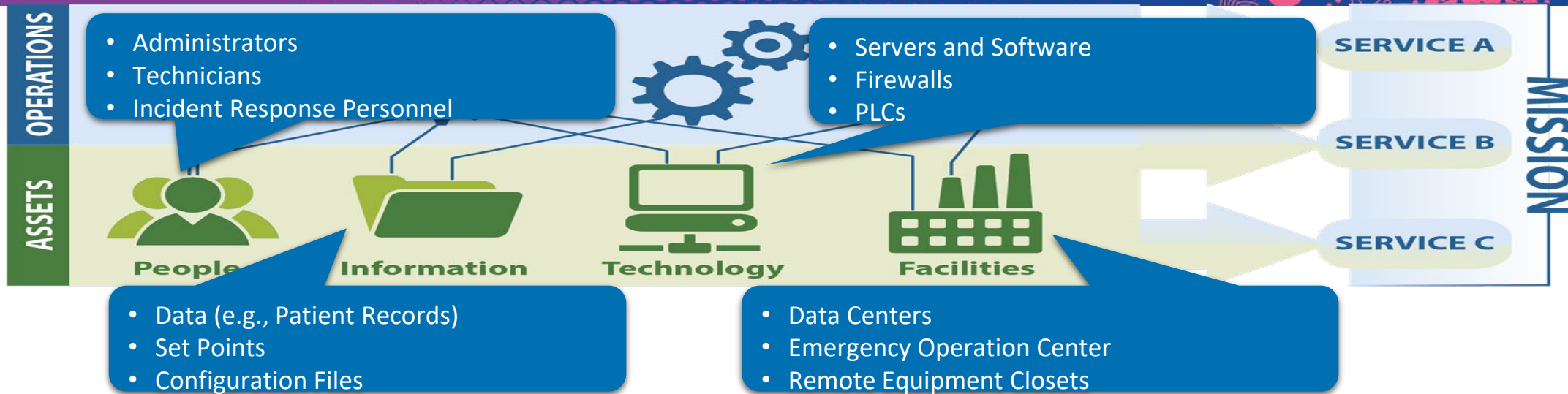
Update Your Software

- Bad actors will exploit flaws in the system. Network defenders are working hard to fix them as soon as they can, but their work relies on all of us updating our software with their latest fixes.
- Update the operating system on your mobile phones, tablets, and laptops. And update your applications – especially the web browsers – on all your devices. Turn on automatic updates for all devices, applications, and operating systems.



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Update Your Software



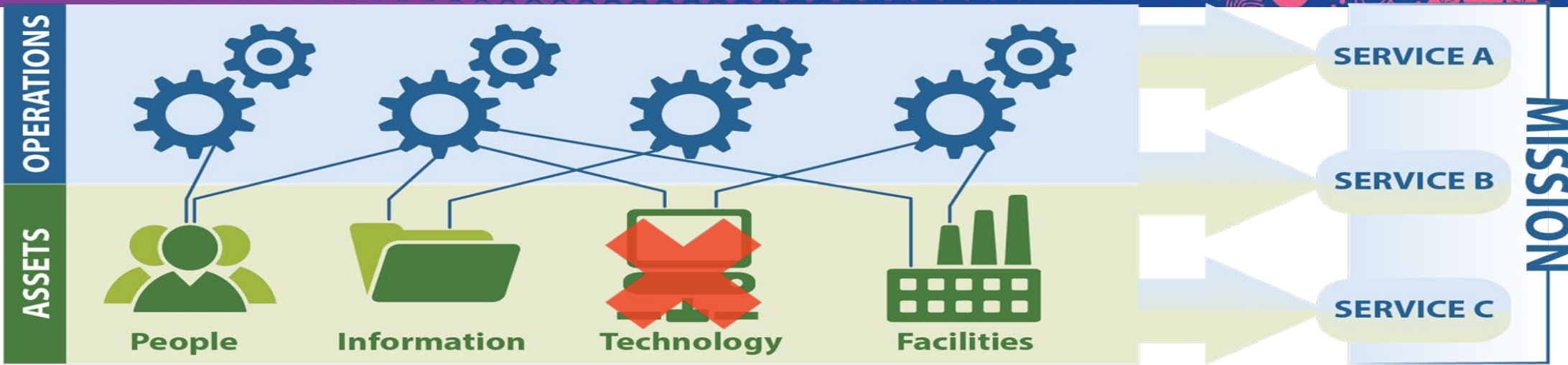
Organizations use **assets (people, information, technology, and facilities)** to provide operational **services** and accomplish **missions**.

- **People** – Those who operate and monitor the service
- **Information** – Data associated with the service
- **Technology** – Systems that automate and support the service
- **Facilities** – Where the service is performed



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Update Your Software

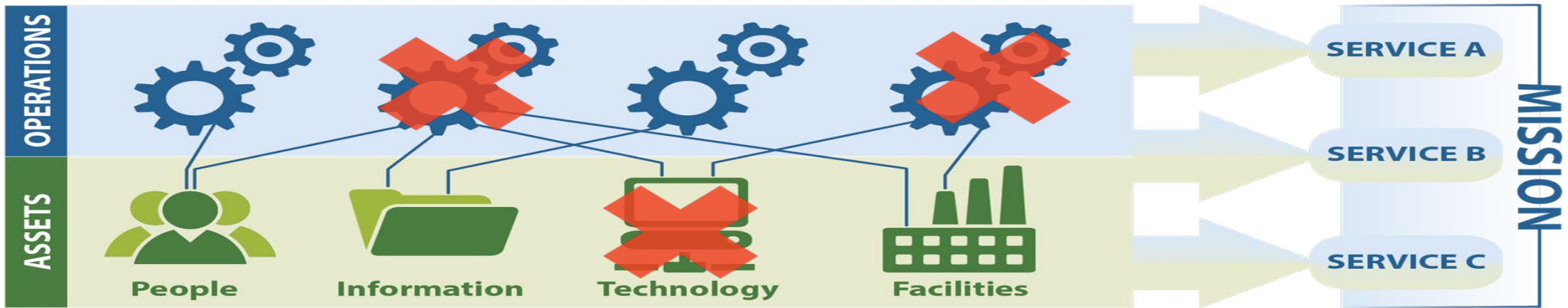


Disruptions affect assets first.



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Update Your Software

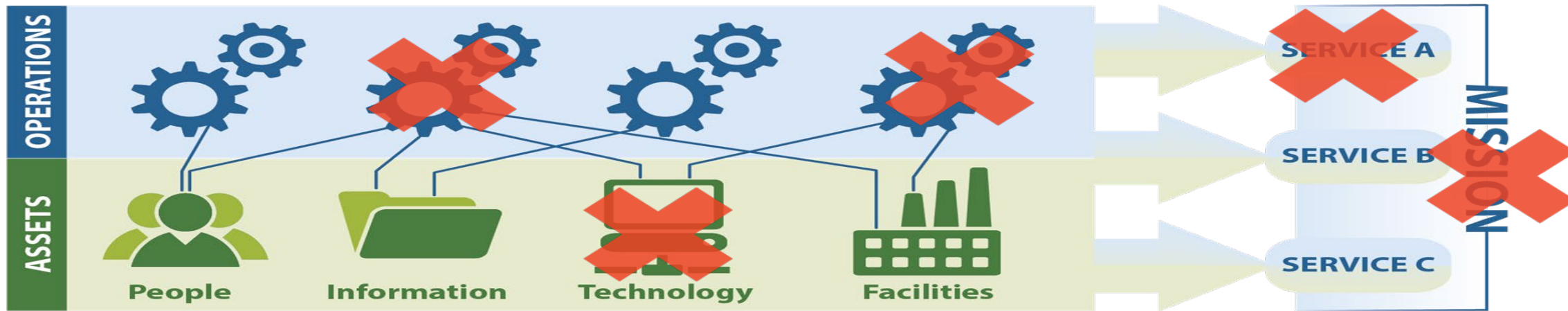


Disruption of assets leads to disruption of business processes.



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Update Your Software



Disruption of business processes can lead to mission failure.



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Report a Cyber Issue

“If You See Something, Say Something” is a long standing national anti-terrorism campaign for reporting suspicious activity to law enforcement.

When cyber incidents are reported quickly, we can use this information to render assistance and as warning to prevent other organizations and entities from falling victim to a similar attack.

- Contact Minnesota Fusion Center at (651) 793-3730 or mn.fc@state.mn.us
- Contact CISA at central@cisa.gov or 888-282-0870
- FBI Field Office: <http://www.fbi.gov/contact-us/field> or the FBI’s 24-7 Cyber Watch at 855-292-3937 or by e-mail at cywatch@fbi.gov



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Resources

CISA Shields Up

- Known Exploited Vulnerabilities Catalog
- Cybersecurity Advisories
- Cyber Essentials Toolkits
- Cyber Hygiene and Web Scanning Services
- Mis-, Dis-, and Malinformation Resources
- Emergency Communications Resources

Communications & Cyber Resiliency Toolkit

Cyber Resource Hub

- Cyber Hygiene Services
- Vulnerability Scanning
- Web Application Scanning
- Cybersecurity Evaluation Tool (CSET) and On-Site Cybersecurity Consulting
 - Ransomware Readiness Assessment

Cybersecurity Training & Exercises



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SHIELDS  UP



Website

For complete information and resources on Cybersecurity Awareness Month, go to:

www.cisa.gov/cybersecurity-awareness-month



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Small Bites

- Reset password (length beats complexity)
 - If you can, implement MFA
- Sign up for Vulnerability Scanning and/or Web Application Scanning
- Set up a meeting with department heads to identify and make a list of critical services for the organization
 - Each department should make their specific list ahead of time
- At the meeting mentioned above, combine and reconcile the lists into one
 - Once that list is created, prioritize and establish the order of recovery



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Questions?



For more information:

www.cisa.gov

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For more information:

www.cisa.gov

www.cisa.gov/shields-up

Questions?

CISARegion5@hq.dhs.gov



