## CYBERSECURITY SERVICES FOR BUILDING CYBER RESILIENCE AND MANAGE RISK

Dom Rivera Cybersecurity Advisor, Region 4 (North Carolina) Cybersecurity Advisor Program Cybersecurity and Infrastructure Security Agency

October 7, 2021



CYBERSECURITY & INFRASTRUCTURE SECURITY AGENCY

Who We Are



CISA works with public sector, private sector, and government partners to share information, build greater trust, and lead the national effort to protect and enhance the resilience of the Nation's physical and cyber infrastructure.



PROACTIVE CYBER PROTECTION



INFRASTRUCTURE RESILIENCE & FIELD OPERATIONS



EMERGENCY COMMUNICATIONS

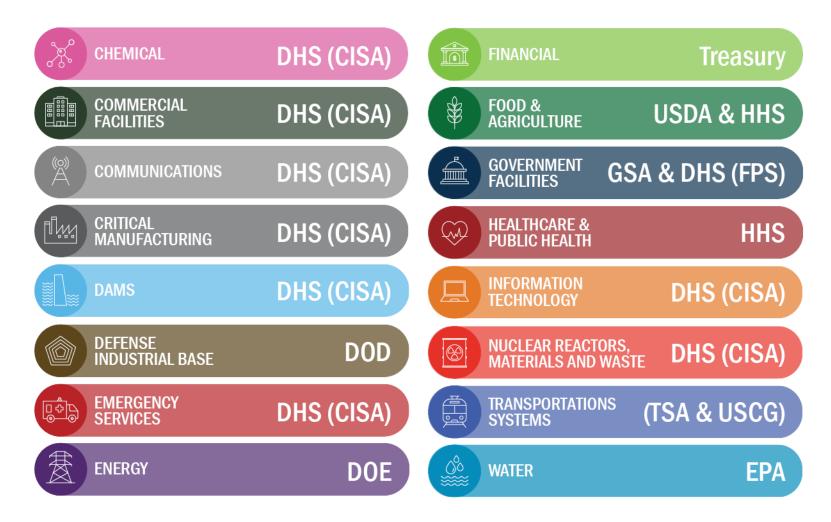
## **CISA Mission and Vision**

- Cybersecurity and Infrastructure Security Agency (CISA) mission:
  - Lead the collaborative national effort to strengthen the security and resilience of America's critical infrastructure
- CISA vision:
  - A Nation with secure, resilient, and reliable critical infrastructure upon which the American way of life can thrive



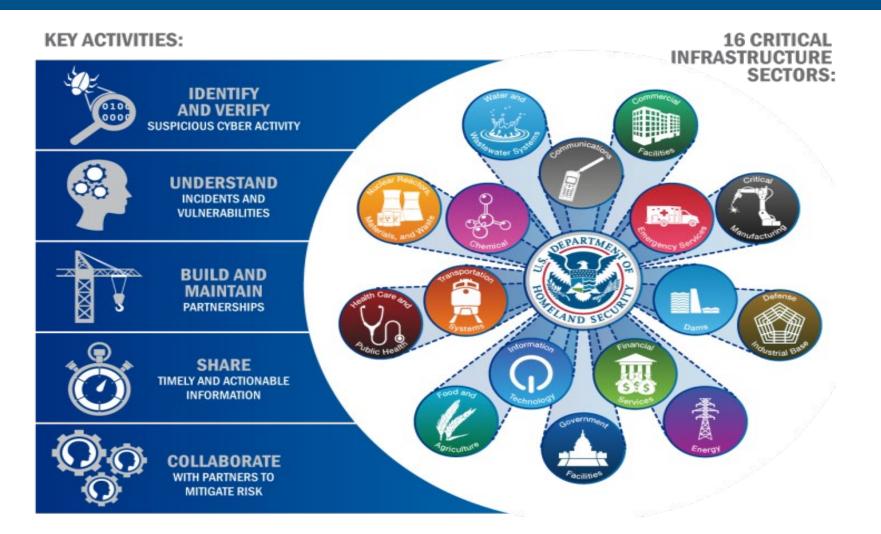


### 16 Critical Infrastructure Sectors & Corresponding Sector-Specific Agencies



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# **Serving Critical Infrastructure**





## CYBERSECURITY ADVISOR PROGRAM



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### **Presidential Policy Directive 41 – Concurrent Lines of Effort**

- Threat Response
  - Threat response activities include conducting appropriate law enforcement and national security investigative activities; collecting evidence and gathering intelligence; providing attribution; linking related incidents; identifying additional affected entities; identifying threat pursuit and disruption opportunities; developing and executing courses of action to mitigate the immediate threat; and facilitating information sharing and operational coordination with asset response.
- Asset Response
  - Asset response activities include furnishing technical assistance to affected entities to protect their assets, mitigate vulnerabilities, and reduce impacts of cyber incidents; identifying other entities that may be at risk and assessing their risk to the same or similar vulnerabilities; assessing potential risks to the sector or region, including potential cascading effects, and developing courses of action to mitigate these risks; facilitating information sharing and operational coordination with threat response; and providing guidance on how best to utilize Federal resources and capabilities in a timely, effective manner to speed recovery.
- Intelligence Support
  - Intelligence support and related activities facilitate the building of situational threat awareness and sharing of related intelligence; the integrated analysis of threat trends and events; the identification of knowledge gaps; and the ability to degrade or mitigate adversary threat capabilities.



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# **Cybersecurity Advisor Program**

**CISA mission**: Lead the collaborative national effort to strengthen the security and resilience of America's critical infrastructure

In support of that mission: Cybersecurity Advisors (CSAs):

- **Assess**: Evaluate critical infrastructure cyber risk.
- **Promote**: Encourage best practices and risk mitigation strategies.
- **Build**: Initiate, develop capacity, and support cyber communities-of-interest and working groups.
- Educate: Inform and raise awareness.
- Listen: Collect stakeholder requirements.
- **Coordinate**: Bring together incident support and lessons learned.



## **CSA Program Activities**

#### CSAs support four key DHS goals:

- **Cyber Preparedness**
- **Risk Mitigation**
- **Incident & Information Coordination**
- Cyber Policy Promotion & Situational Awareness

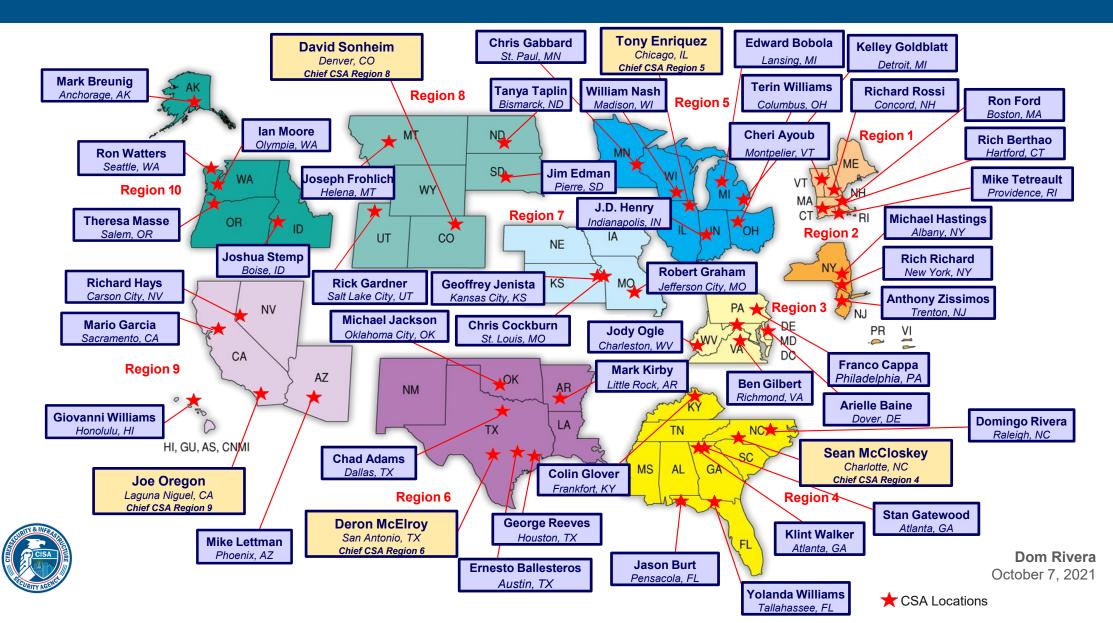
#### **CSAs facilitate three assessments:**

- Cyber Resilience Reviews (CRR)
- Cyber Infrastructure Surveys (C-IST)
- External Dependency Reviews (EDM)



CSAs participate in local / regional cyber working groups, mostly organized by Federal and state partners

## **CSA Deployed Personnel**



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## **CYBERSECURITY AND RESILIENCE**



## **Resilience Defined**

"... the ability to prepare for and adapt to changing conditions and withstand and recover rapidly from disruptions. Resilience includes the ability to withstand and recover from deliberate attacks, accidents, or naturally occurring threats or incidents..."

> - Presidential Policy Directive 21 February 12, 2013

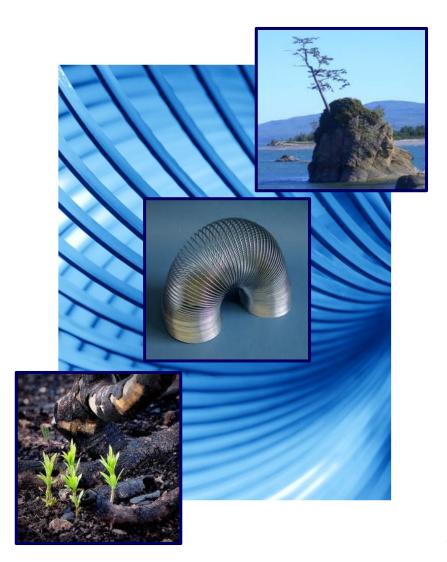


Protect (Security)	Sustain (Continuity)
Perform (Capability)	Repeat (Maturity)



## **Emergent Property of Operational Resilience**

- The emergent property of infrastructure requires an entity to
  - Prevent disruptions from occurring and
  - Respond quickly and recover from disruptions in its most critical business processes.
- Emergent property of operational resilience is essential to critical infrastructure.





# What Is An Emergent Property?

- Consider your health.
  - How do you become healthy?
  - Can you buy good health?
  - Can you "manufacture" good health?
- *Good health* and *resilience* are both emergent properties.
- They develop or emerge from what we do.





## **Operational Resilience in Practice**

Operational resilience emerges from what we do, such as:

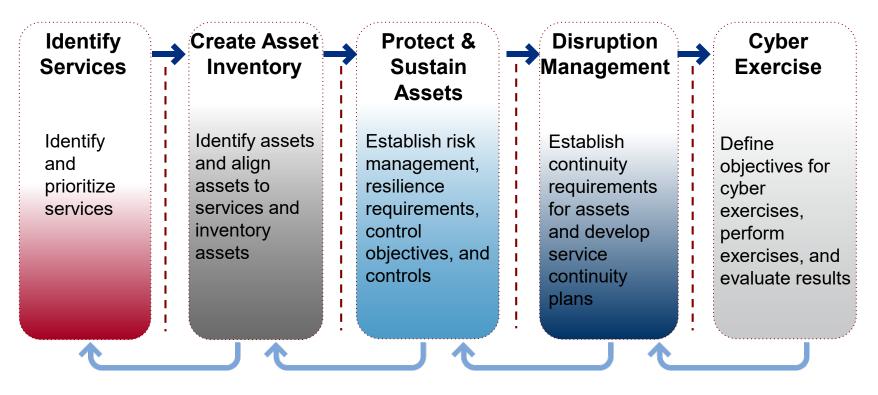
- Identifying and mitigating risks,
- Planning for and managing vulnerabilities and incidents,
- Performing service-continuity processes and planning,
- Managing IT operations,
- Managing, training, & deploying people,
- Protecting and securing important assets, and
- Working with external partners.





# **Working toward Cyber Resilience**

Follow a framework or general approach to cyber resilience.
 One successful approach includes:





**Process Management and Improvement** 

## CISA CYBERSECURITY SERVICES



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## **Cybersecurity Services for All**

- Cybersecurity Advisors
- State, Local, Tribal, and Territorial engagements
- Cyber Resilience Reviews (CRR™)
- External Dependencies Management (EDM) Assessments
- Cyber Infrastructure Surveys
- Cyber Education and Awareness
- Federal Virtual Training Environment (Fed VTE)
- National Initiative for Cybersecurity Careers and Studies (NICCS)
- Stop. Think. Connect.™



# Sampling of Cybersecurity Offerings

#### Preparedness Activities

- Information / Threat Indicator Sharing
- Cybersecurity Training and Awareness
- Cyber Exercises and "Playbooks"
- National Cyber Awareness System
- Vulnerability Notes Database
- Information Products and Recommended
  Practices
- Cybersecurity Evaluations
  - Cyber Resilience Reviews (CRR™)
  - Cyber Infrastructure Surveys
  - Phishing Campaign Assessment
  - Vulnerability Scanning
  - Risk and Vulnerability Assessments (aka "Pen" Tests)
  - External Dependencies Management Reviews
  - Cyber Security Evaluation Tool (CSET™)
  - Validated Architecture Design Review (VADR)

#### Response Assistance

- Remote / On-Site Assistance
- Malware Analysis
- Hunt and Incident Response Teams
- Incident Coordination

#### Cybersecurity Advisors

- Assessments
- Working group collaboration
- Best Practices private-public
- Incident assistance coordination

#### Protective Security Advisors

- Assessments
- Incident liaisons between government and private sector
- Support for National Special Security Events



### **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.





## ASSESSMENTS

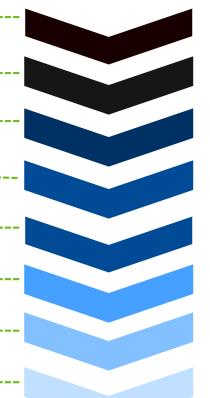


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## Range of Cybersecurity Assessments

STRATEGIC (C-Suite Level)

- Cyber Resilience Review (Strategic) --
- External Dependencies Management (Strategic)-----
- Cyber Infrastructure Survey (Strategic)
- Cybersecurity Evaluations Tool (Strategic/Technical) ----
- Phishing Campaign Assessment (EVERYONE)-----
- Vulnerability Scanning / Hygiene (Technical)
- Validated Architecture Design Review (Technical)
- Risk and Vulnerability Assessment (Technical)





TECHNICAL (Network-Administrator Level)

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## **CYBER RESILIENCE REVIEW**



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## **Cyber Resilience Review**

• **Purpose:** Evaluates that maturity of an organization's capacities and capabilities in performing, planning, managing, measuring, and defining cybersecurity capabilities across the following 10 domains:

Asset Management	Service Continuity Management
Controls Management	Risk Management
Configuration and Change Management	External Dependency Management
Vulnerability Management	Training and Awareness
Incident Management	Situational Awareness

• Benefits include: Helps public and private sector partners understand and measure cybersecurity capabilities as they relate to operational resilience and cyber risk







#### CYBER RESILIENCE REVIEW (CRR)

#### Question Set with Guidance

April 2020

U.S. Department of Homeland Security Cybersecurity and Infrastructure Security Agency

## **Cyber Resilience Review Domains**

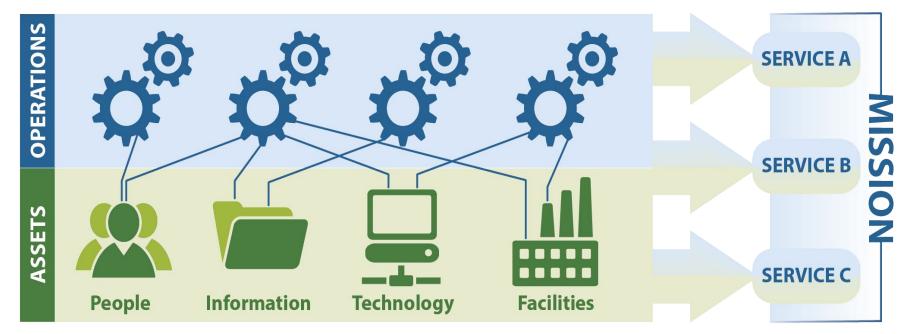
Asset Management	<b>Risk Management</b>
Know your assets being protected & their	Know and address your biggest risks that considers
requirements, e.g., CIA	cost and your risk tolerances
<b>Configuration and Change Management</b> Manage asset configurations and changes	<b>Service Continuity Management</b> Ensure workable plans are in place to manage disruptions
<b>Controls Management</b>	<b>Situational Awareness</b>
Manage and monitor controls to ensure they	Discover and analyze information related to
are meeting your objectives	immediate operational stability and security
<b>External Dependencies Management</b>	<b>Training and Awareness</b>
Know your most important external entities and	Ensure your people are trained on and aware of
manage the risks posed to essential services	cybersecurity risks and practices
Incident Management Be able to detect and respond to incidents	<b>Vulnerability Management</b> Know your vulnerabilities and manage those that pose the most risk



For more information: <u>https://www.cisa.gov/cisa-cybersecurity-resources</u>

## **Critical Service Focus**

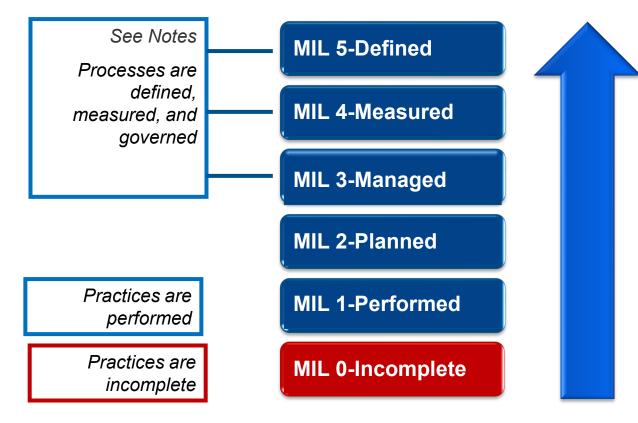
Organizations use **assets (people, information, technology, and facilities)** to provide operational **services** and accomplish **missions.** 





## **Process Institutionalization**

CRR maturity indicator levels (MILs) are to measure process institutionalization:



Higher MIL degrees translate to more stable processes that:

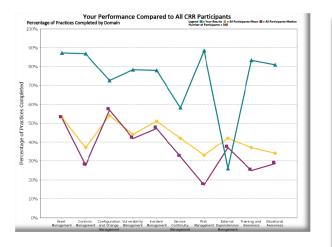
- Produce consistent results over time
- Are retained during times of stress



## **CRR Sample Report**



### **Each CRR report includes:**

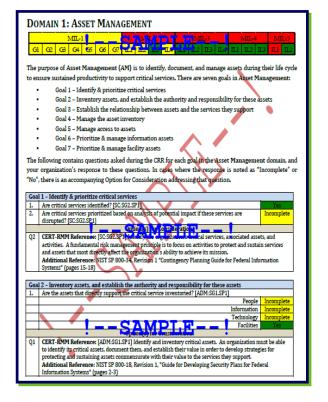


Comparison data with other CRR participants \*facilitated only



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	PR.MIA Matematica	12				
	PROFESSION Technology	10				
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	Consultant Processors					
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1	PE.CO Communications	1000				

A summary "snapshot" graphic, related to the **NIST Cyber Security Framework**. Domain performance of existing cybersecurity capability and options for consideration for all responses



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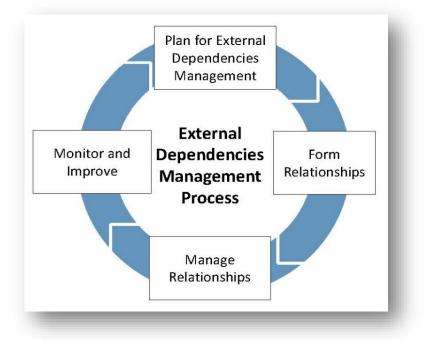
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# EXTERNAL DEPENDENCIES MANAGEMENT ASSESSMENTS



### **External Dependencies Management Assessment**

- **Purpose:** Evaluate an entity's management of their dependencies on third-party entities
- Delivery: CSA-facilitated
- Benefits:
  - Better understanding of the entity's cyber posture relating to external dependencies
  - Identification of improvement areas for managing third parties that support the organization



EDM process outlined per the External Dependencies Management Resource Guide

Note: graphic edits will need time to be recreated and adjusted.

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## **EDM Assessment Organization and Structure**

Structure and structure

### **EDM Assessment Report**

#### Uses one Matu

#### Each EDM report includes: Sub-domain performance of Performance summary of **Relationship Fo** existing capability managing existing capability managing external dependencies and external dependencies options for consideration for Assesses wheth all responses entities before e **Relationship M** Assesses wheth · Comparison data with other EDM participants of the critical ser Dom Rivera October 7, 2021 Service Protect

Assesses whether the acquirer accounts for its dependence on external entities as part of its operational activities around managing incidents, disruptions, and threats.



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# CYBER INFRASTRUCTURE SURVEY



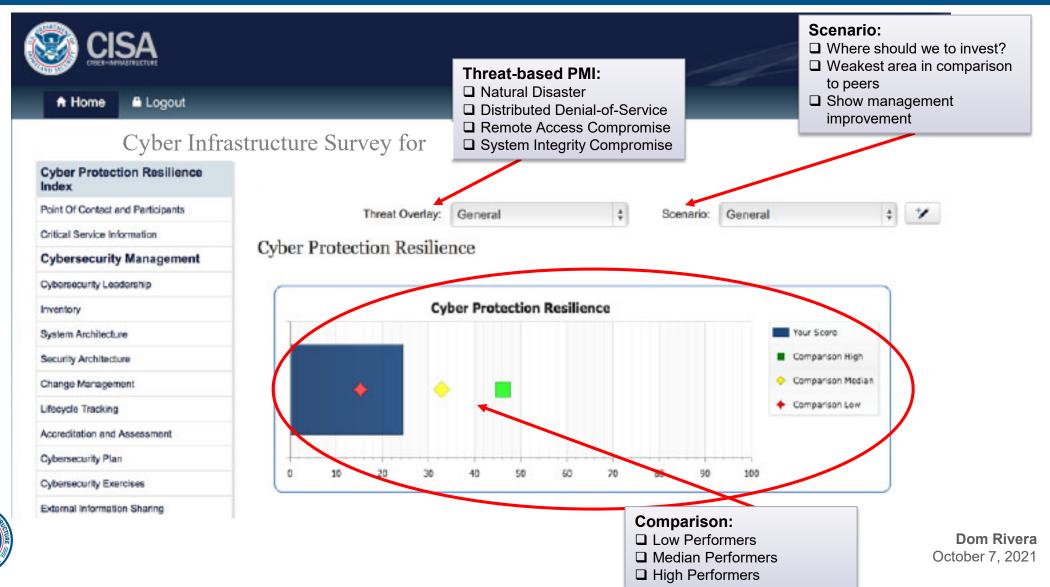
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# **Cyber Infrastructure Survey Highlights**

- Purpose: Evaluate security controls, cyber preparedness, overall resilience.
- Delivery: CSA-facilitated
- Benefits:
  - Effective assessment of cybersecurity controls in place for a critical service,
  - Easy-to-use interactive dashboard to support cybersecurity planning and resource allocation), and
  - Access to peer performance data visually depicted on the dashboard.



## **Example of CIS Dashboard**

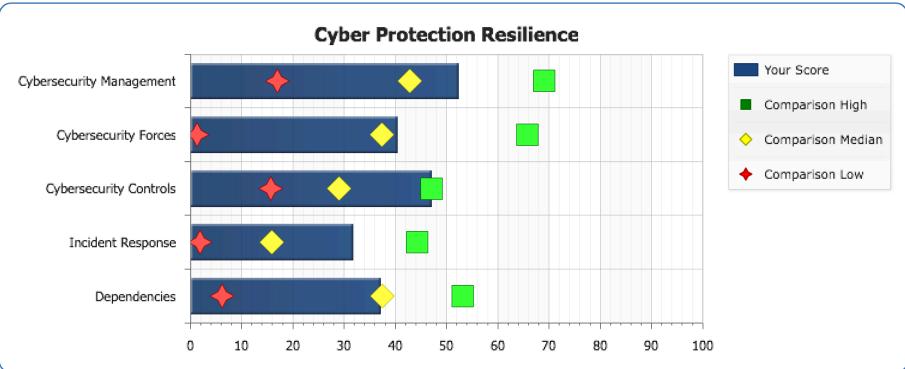


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## **CIS Dashboard - Comparison**

- Shows the low, median, and high performers
- Compares your organization to the aggregate





# CYBER SECURITY EVALUTION TOOL



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### **Cyber Security Evaluation Tool**

- **Purpose:** Assesses control system and information technology network security practices against industry standards.
- **Facilitated:** Self-Administered, undertaken independently
- Benefits:
  - Immediately available for download upon request
  - Understanding of operational technology and information technology network security practices
  - Ability to drill down on specific areas and issues
  - Helps to integrate cybersecurity into current corporate risk management strategy





# PHISHING CAMPAIGN ASSESSMENT



#### **Phishing Campaign Assessment**

**Purpose:** Test an organization's susceptibility and reaction to phishing emails.

Delivery: Online delivery by CISA

#### **Benefits:**

- Identify the risk phishing poses to your organization
- Decrease risk of successful malicious phishing attacks, limit exposure, reduce rates of exploitation
- Receive actionable metrics
- Highlight need for improved security training
- Increase cyber awareness among staff





# CYBER HYGIENE: WEB APPLICATION SCANNING (WAS)



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#### Cyber Hygiene: Web Application Scanning (WAS)

The CISA Assessments team supports Federal, State, Local, Tribal and Territorial Governments and Critical Infrastructure partners by providing proactive testing and assessment services. CISA's Cyber Hygiene Web Application Scanning is "internet scanning-as-aservice." This service assesses the "health" of your publicly accessible web applications by checking for known vulnerabilities and weak configurations. Additionally, we can recommend ways to enhance security in accordance with industry and government best practices and standards.



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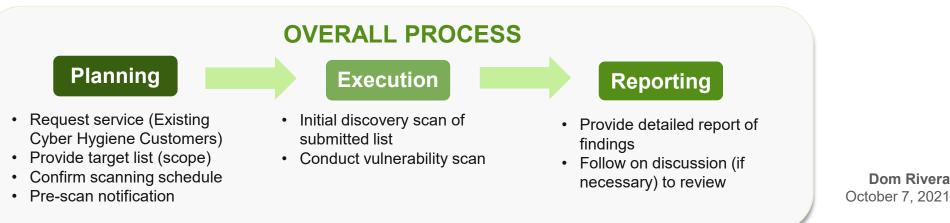
#### SCANNING OBJECTIVES

- Maintain enterprise awareness of your publicly accessible web-based assets
- Provide insight into how systems and infrastructure appear to potential attackers
- Drive proactive mitigation of vulnerabilities to help reduce overall risk

#### SCANNING PHASES AND OVERALL PROCESS

**Scanning Phases** 

- **Discovery Scanning:** Identify active, internet-facing web applications
- Vulnerability Scanning: Initiate non-intrusive checks to identify potential vulnerabilities and configuration weaknesses







### **VULNERABILITY SCANNING**



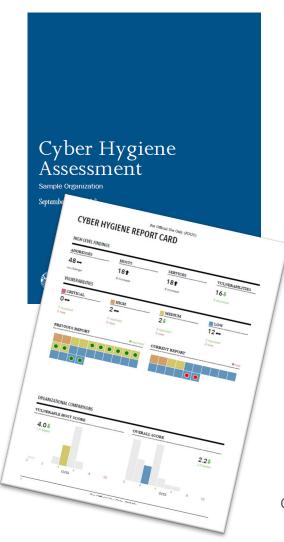
### **Vulnerability Scanning**

**Purpose**: Assess Internet-accessible systems for known vulnerabilities and configuration errors.

Delivery: Online by CISA

#### Benefits:

- Continual review of system to identify potential problems
- Weekly reports detailing current and previously mitigated vulnerabilities
- Recommended mitigation for identified vulnerabilities
  - Network Vulnerability & Configuration Scanning
    - Identify network vulnerabilities and weakness





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# VALIDATED ARCHITECTURE DESIGN REVIEW



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### Validated Architecture Design Review

**Purpose**: Analyze network architecture, system configurations, log file review, network traffic and data flows to identify abnormalities in devices and communications traffic.

Delivery: CISA staff working with entity staff

#### **Benefits:**

- In-depth review of network and operating system
- Recommendations to improve an organization's operational maturity and enhancing their cybersecurity posture
- Evaluation of network architecture





### RISK AND VULNERABILITY ASSESSMENT [PENETRATION TEST]



#### **Risk and Vulnerability Assessment**

- Purpose: Perform network penetration and deep technical analysis of enterprise IT systems and an organization's external resistance to specific IT risks
- Delivery: Onsite by CISA
- Benefits:
  - · Identification of vulnerabilities
  - Specific remediation recommendations
  - Improves an entity's cyber posture, limits exposure, reduces rates of exploitation
  - Increases speed and effectiveness of future cyber attack responses.





#### **Risk and Vulnerability Assessment Specifics**

#### **Assessment Aspects**

Service	Description
Vulnerability Scanning and Testing	Conduct Vulnerability Assessments
Penetration Testing	Exploit weakness, test responses in systems, applications, network, and security controls
Social Engineering	Craft e-mail at targeted audience to test security awareness, used as an attack sector to internal network
Wireless Discovery & Identification	Identify wireless signals and rogue wireless devices, and exploit access points
Web Application Scanning and Testing	Identify web application vulnerabilities
Database Scanning	Security Scan of database settings and controls
Operating System Scanning	Security Scan of operating system to do compliance checks



## CISA Cyber Assessments in Brief, 1 of 2

Name	Cyber Resilience Review	Cyber Infrastructure Survey	External Dependencies Management Review	Cybersecurity Evaluation Tool Assessment
Purpose	Identify cybersecurity management capabilities and maturity	Calculate a comparative analysis and valuation of protective measures in-place	Assess the activities and practices utilized by an organization to manage risks arising from external dependencies	Provide detailed, effective, and repeatable methodology for assessing control systems security encompassing the organization's infrastructure, policies, and procedures
Scope	Critical service view	Critical service view	Critical service view	Information Technology and Operational Technology systems
Time to Execute	8 Hours (1 business day)	2 ½ to 4 Hours	2 ½ to 4 Hours	Varies greatly (min 2 Hours), unknown for self-assessment
Information Sought	Capabilities and maturity indicators in 10 security domains	Protective measures in-place	Capabilities and maturity indicators across third-party relationship management lifecycle domains	Architecture diagrams, infrastructure, policies, and procedures documents
Preparation	1-hour questionnaire and planning call(s)	Planning call to scope evaluation	Planning call to scope evaluation	Self-assessment available from web site and used locally
Participants	IT / Security Manager, Continuity Planner, and Incident Responders	IT / Security Manager	IT / Security Manager with Continuity Planner and Contract Management	Operators, engineers, IT staff, policy / management personnel, and subject matter experts
Delivered By	CSAs iodregionaloperations@cisa.dhs.gov	CSAs iodregionaloperations@cisa.dhs.go v	CSAs iodregionaloperations@cisa.dhs.gov	Self-administered / CSAs https://ics-cert.us-cert.gov/
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## CISA Cyber Assessments in Brief, 2 of 2

Name	Validated Architecture Design Review	Phishing Campaign Assessment	Risk and Vulnerability Assessment	Vulnerability Scanning
Purpose	Provide analysis and representation of asset owner's network traffic, data flows, and relationships between devices and identifies anomalous communications flows.	Measure the susceptibility of an organization's personnel to social engineering attacks, specifically email phishing attacks.	Perform penetration and deep technical analysis of enterprise IT systems and an organization's external resistance to specific IT risks	Identify public-facing Internet security risks, at a high-level, through service enumeration and vulnerability scanning
Scope	Industrial Control Systems / Network Architecture, Traffic	Organization / Business Unit / Email Exchange Service	Organization / Business Unit / Network-Based IT Service	Public-Facing, Network- Based IT Service
Time to Execute	Variable (Hours to Days)	Approximately 6 Weeks	Variable (Days to Weeks)	Variable (Hours to Continuous)
Information Sought	Network design, configurations, log files, interdependencies, data flows and its applications	Click rate metrics gathered during phishing assessment	Low-level options and recommendations for improving IT network and system security	High-level network service and vulnerability information
Preparation	Coordinated via Email. Planning call(s).	Formal rules of engagement and pre-planning	Formal rules of engagement and extensive pre-planning	Formal rules of engagement and extensive pre-planning
Participants	Control system operators/ engineers, IT personnel, and ICS network, architecture, and topologies SMEs	IT/Security Manager and Network Administrators, end users	IT/Security Manager and Network Administrators	IT/Security Manager and Network Administrators
Delivered By	VM <u>VM@CISA.DHS.GOV</u>	VM <u>VM@CISA.DHS.GOV</u>	VM <u>VM@CISA.DHS.GOV</u>	VM <u>VM@CISA.DHS.GOV</u>



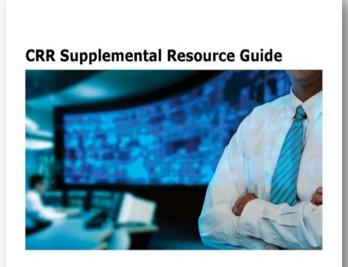
### **INCIDENT MANAGEMENT**



#### Incident Management Planning Helps Mitigate Effects

- 1. Get leadership support for incident management planning.
- 2. Establish an event-detection process.
- 3. Establish a triage-and-analysis process.
- 4. Establish an incident-declaration process.
- 5. Establish an incident-response and recovery process.
- 6. Establish an incident-communications process.
- 7. Assign roles and responsibilities for incident management.
- 8. Establish a post-incident analysis and improvement process.

Resource: CRR Supplemental Resource Guide, Incident Management.



Volume 5 Incident Management



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#### Federal Incident Response, 1 of 2

#### **Federal Incident Response**

- **Threat Response:** Attributing, pursuing, and disrupting malicious cyber actors and malicious cyber activity. Conducting criminal investigations and other actions to counter the malicious cyber activity.
- Asset Response: Protecting assets and mitigating vulnerabilities in the face of malicious cyber activity, reducing the impact to systems and data; strengthening, recovering, and restoring services; identifying other entities at risk; and assessing potential risk to broader community.





### Federal Incident Response, 2 of 2

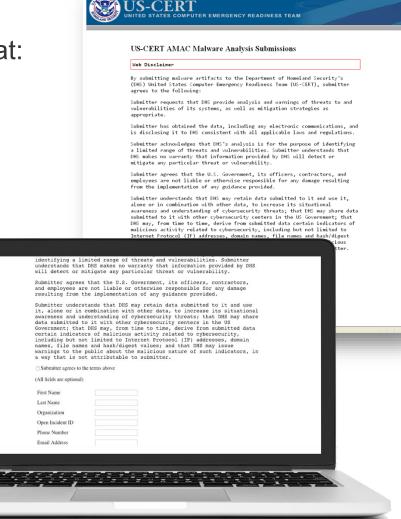
Threat Response	Asset Response
Federal Bureau of Investigation	CISA Central
855-292-3937 or cywatch@ic.fbi.gov	888-282-0870 or <u>central@cisa.DHS.gov</u>
U.S. Secret Service secretservice.gov/contact/field-offices	Report suspected or confirmed cyber incidents, including when the affected entity may be interested in government assistance in removing the adversary, restoring operations, and recommending ways to further improve security.
Immigration and Customs	Report Internet Crimes:
Homeland Security Investigations	FBI Internet Crime Complaint Center
866-347-2423 or ice.gov/contact/hsi	ic3.gov



#### Malware Analysis

#### To submit malware:

- Email submissions to CISA Central at: <u>submit@malware.us-cert.gov</u>
  - Send in password-protected zip file(s). Use password "infected."
- Upload submission online: <u>https://malware.us-cert.gov</u>



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## ADDITIONAL CYBERSECURITY RESOURCES



## **Cyber Exercises and Planning**

CISA's National Cyber Exercise and Planning Program develops, conducts, and evaluates cyber exercises and planning activities for state, local, tribal and territorial governments and public and private sector critical infrastructure organizations.

- Cyber Storm Exercise DHS's flagship national-level biennial exercise
- Exercise Planning and Conduct
- Cyber Exercise Consulting and Subject Expertise Support
- Cyber Planning Support
- Off-the-Shelf Resources



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# **Cybersecurity Training Resources**

CISA offers easily accessible education and awareness resources through the National Initiative for Cybersecurity Careers and Studies (NICCS) website.

The NICCS website includes:

- Searchable Training Catalog with 4,400 plus cyberrelated courses offered by nationwide cybersecurity educators
- Interactive National Cybersecurity Workforce Framework
- Cybersecurity Program information: FedVTE, Scholarships for Service, Centers for Academic Excellence, and Cyber Competitions
- Tools and resources for cyber managers
- Upcoming cybersecurity events list





### **Our Nation's Cyber Workforce Foundation**

The National Cybersecurity Workforce Framework is a collection of definitions that describe types of cybersecurity work and skills requires to perform it.

- ✓ When used nationally, the definitions help establish universally applicable cybersecurity skills, training/development, and curricula
- ✓ 7 Categories, 30+ Specialty Areas
- ✓ Baselines knowledge, skills, and abilities & tasks





Operate & Maintain

Securely Provision

Analyze



Collect & Oversight & Operate Development





Protect & Defend



Investigate



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## **Free Federal Cyber Training**

#### FedVTE enables cyber professionals to continue growing skills.

<u>FedVTE</u> is an online, on-demand training center that provides <u>free</u> cybersecurity training for U.S. veterans and federal, state, local, tribal, and territorial government employees. As of January 2017, there are:

- Over 140,000 registered users, including employees at all levels of government
- Over 18,000 veteran users (through non-profit partner, Hire Our Heroes™)
- Over 5,000 SLTT registered users





#### **Resource Guides**

- **Resource Guides:** Created to help organizations enhance their resilience in specific Cyber Resilience Review (CRR) domains.
- **CRR Tools:** Helps move organizations from initial capability to well-define capability in security management areas
- **CRR Domains**: Includes the CRR 10 "domains" each representing a capability area foundational to an organization's cyber resilience.
- **Content**: While the guides were developed for organizations to utilize after conducting a CRR, these publications provide content useful for all organizations with cybersecurity equities.
- **Flexibility in Use**: Moreover, the guides can be utilized as a full set or as individual components, depending on organizational preference and/or need.
- For more information, visit <a href="https://www.cisa.gov/cyber-resource-hub">https://www.cisa.gov/cyber-resource-hub</a>





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**Cybersecurity and Infrastructure Security Agency** 



