## CISA CYBERSECURITY MISSION & RESOURCE BRIEF



#### **Andrew Buschbom**

Cybersecurity State Coordinator Region VI | New Mexico

#### **AGENDA:**

- About CISA
- Cybersecurity Resources & Services
- Information Sharing
- Training
- Incident Reporting

## **About CISA**



CYBERSECURITY & INFRASTRUCTURE SECURITY AGENCY

## Cybersecurity and Infrastructure **Security Agency (CISA)**

Secure and resilient infrastructure for the American people.

**CISA** partners with industry and government to understand and manage risk to our Nation's critical infrastructure.



#### **OVERALL GOALS**

GOAL 1

#### **DEFEND TODAY**

**Defend against urgent** threats and hazards

GOAL 2

#### **SECURE TOMORROW**

**Strengthen critical** infrastructure and address long-term risks

CYBERSECURITY & INFRASTRUCTURE SECURITY AGENCY

# We are the Nation's Risk Advisor

The Cybersecurity and Infrastructure
Security Agency (CISA) is the pinnacle
of national risk management for cyber
and physical infrastructure





#### Critical Infrastructure Sectors

CISA assists the public and private sectors secure its networks and focuses on organizations in the following 16 critical infrastructure sectors.





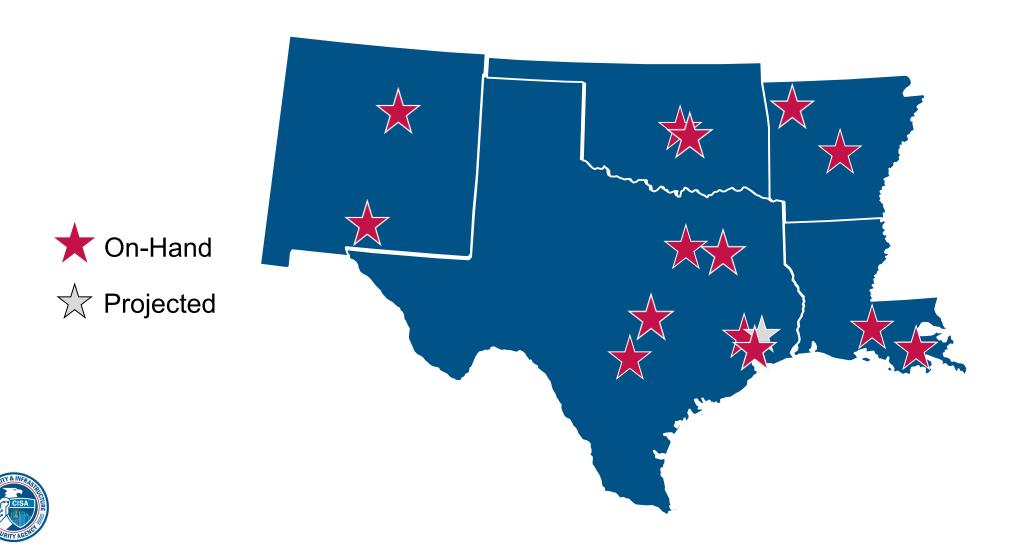
## Cybersecurity Advisors (CSAs)

To provide direct coordination, outreach, and regional support in order to protect cyber components essential to the sustainability, preparedness, and protection of the Nation's Critical Infrastructure and Key Resources (CIKR) and State, Local, Tribal, and Territorial (SLTT) governments.

- 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.



## Reg 6 | On-Hand / Projected Cyber Personnel



# Cybersecurity Resources and Services



#### **No-Cost/Federally-Funded Cybersecurity Resources**:

- Cybersecurity Assessments
  - Cybersecurity Performance Goals (CPG)
  - Ransomware Readiness Assessment (RRA)
  - Cyber Infrastructure Survey (CIS)
  - Cyber Resilience Essentials (CRE)
  - External Dependencies Management (EDM)
  - Incident Management Review (IMR)
  - Cyber Resilience Review (CRR)
- Workshops
  - Cyber Resilience Workshop (CRW)
  - Asset Management Workshop (AMW)
  - Incident Management Workshop (IMW)
  - OEM Planning Considerations for Cyber Incidents Workshop (EMW)
  - Vulnerability Management Workshop (VMW)
  - Digital Forensics Workshop I & II (DFW)
  - Cyber Exercise (CYX)
- Cyber Hygiene Services
  - Vulnerability Scanning Service (CyHy)
  - Web Application Scan (WAS)



**TECHNICAL** 



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**Note:** The RRA and CPG are recommended starter assessments.



Introductory

Assessment



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**Note:** The intermediate assessments are more specialized and focused.



Intermediate

**Assessments** 



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**Note:** Our most comprehensive assessment that focuses on a variety of aspects of your cybersecurity program.



Advanced

**Assessment** 



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**Note:** The workshops are great follow-on activities that helps to reinforce gaps in your cybersecurity program.





Series of

Workshops

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**Note**: Cyber Exercises are recommended opportunities to assess the organization's readiness to respond to and recover from a cybersecurity incident.







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**Note**: Both the CyHy External Vulnerability Scanning Service and Web Application Scans are recommended to detect vulnerabilities.



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#### \*Technical Assessments

- Remote Penetration Testing
- Risk and Vulnerability Assessment
- Validated Architecture Design Review

\*Note: Eligibility for technical assessments is contingent upon assessment of the stakeholder's capabilities.





## Cybersecurity Performance Goals (CPGs)

The CPGs are a prioritized subset of IT and operational technology (OT) cybersecurity practices that critical infrastructure owners and operators can implement to meaningfully reduce the likelihood and impact of known risks and adversary techniques.

The goals were informed by existing cybersecurity frameworks and guidance, as well as the real-world threats and adversary tactics, techniques, and procedures (TTPs) observed by CISA and its government and industry partners.

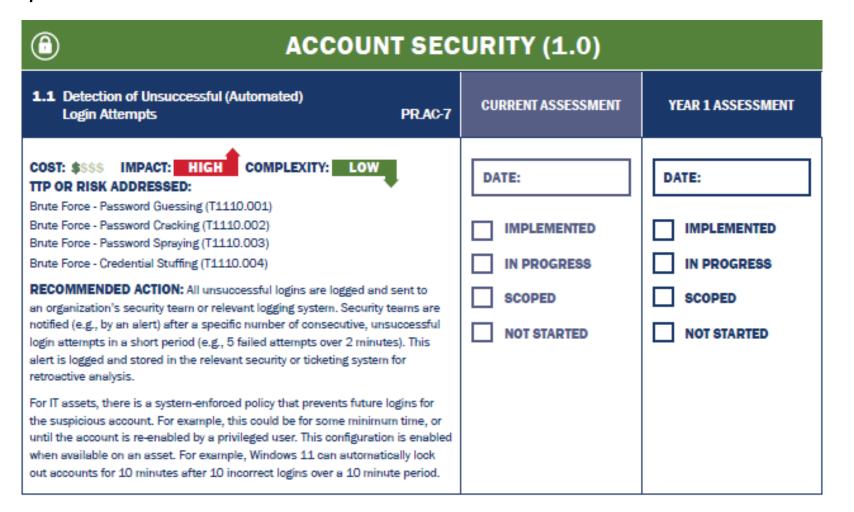
By implementing these goals, owners and operators will not only reduce risks to critical infrastructure operations, but the also the American people.





#### **CPG Checklist**

This document is to be used in tandem with the CPGs to help prioritize and track your organization's implementation.





## Ransomware Readiness Assessment (RRA)

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). The RRA is a self-assessment based on a tiered set of practices to help organizations better assess how well they are equipped to defend and recover from a ransomware incident.

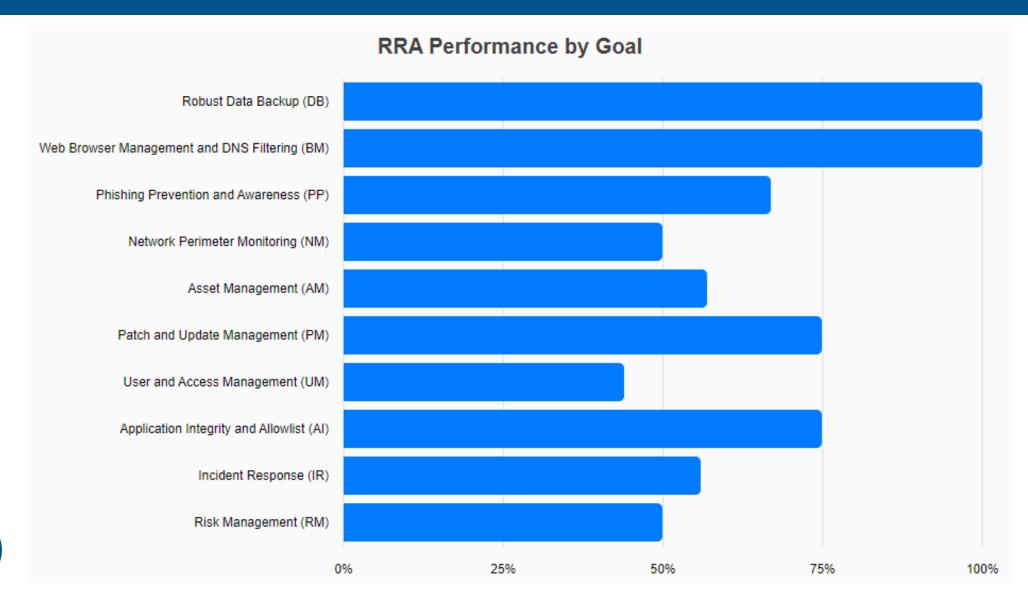
#### The RRA:

- Helps organizations evaluate their cybersecurity posture, with respect to ransomware, against recognized standards and best practice recommendations in a systematic, disciplined, and repeatable manner.
- Guides asset owners and operators through a systematic process to evaluate their operational technology (OT) and information technology (IT) network security practices against the ransomware threat.
- Provides an analysis dashboard with graphs and tables that present the assessment results in both summary and detailed form.





## Goal Completion Summary Example





## Cybersecurity Infrastructure Survey (CIS)

Structured, interview-based assessment (3 hours) of essential cybersecurity practices in-place for critical services within your organization.

Identifies interdependencies, capabilities, and the emerging effects related to current cybersecurity posture.

Focuses on protective measures, threat scenarios, and a service-based view of cybersecurity in context of the surveyed topics.

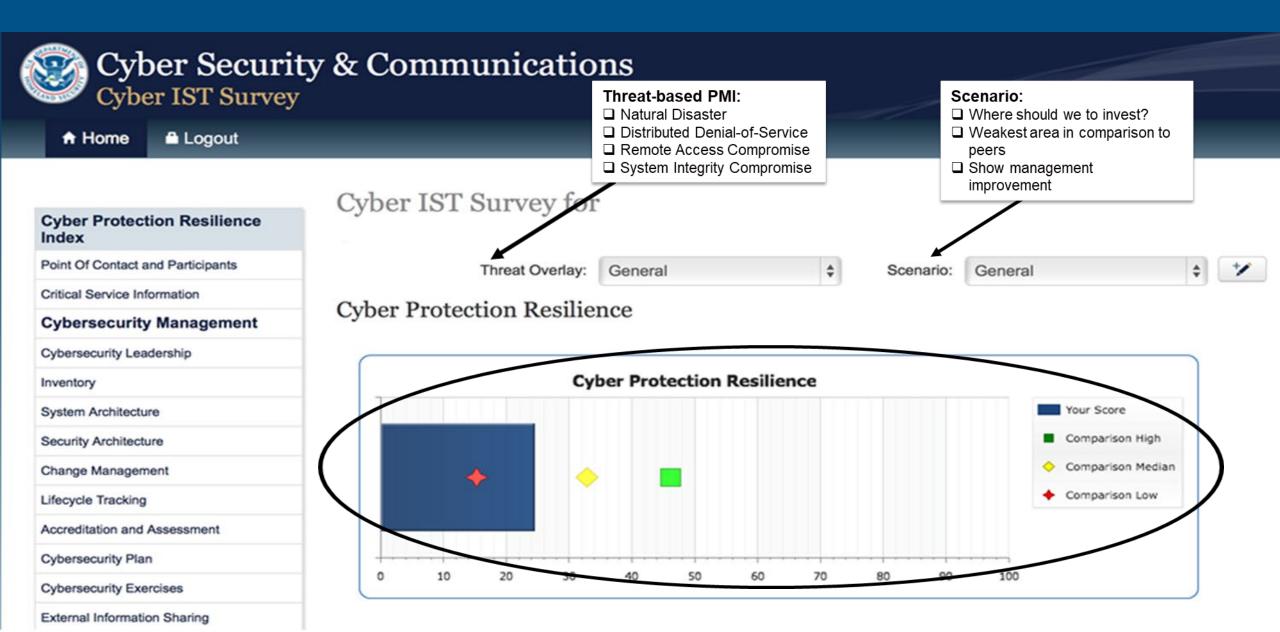
Broadly aligns to the National Institute of Standards and Technology (NIST) Cybersecurity Framework (CSF).

## Frame

#### **CIS Survey Question Domains**

Cybersecurity Forces		Cybersecurity Management	
冰	Personnel	*	Cybersecurity Leadership
*	Cybersecurity Training	*	Cyber Service Architecture
Cy	bersecurity Controls	*	Change Management
*	Authentication and Authori- zation Controls	*	Lifecycle Tracking
		*	Assessment and Evaluation
ale:	Access Controls	*	Cybersecurity Plan
*	Cybersecurity Measures	*	Cybersecurity Exercises
率	Information Protection	*	Information Sharing
本	User Training	Dependencies	
*	Defense Sophistication and Compensating Controls	*	Data at Rest
		*	Data in Motion
Incident Response		*	Data in Process
30¢	Incident Response Measures	*	End Point Systems
本	Alternate Site and Disaster Recovery		•

## Example CIS Dashboard



## Cyber Resilience Essentials (CRE)

**Purpose**: An interview-based assessment that evaluates an organization's operational resilience and cybersecurity practices.

Evaluates the maturity of an organization's capacities and capabilities in performing, planning, managing, measuring, and defining cybersecurity capabilities.

**Goal**: Identify Cybersecurity Strengths & Weaknesses

- 11 Domains
- 103 Practices



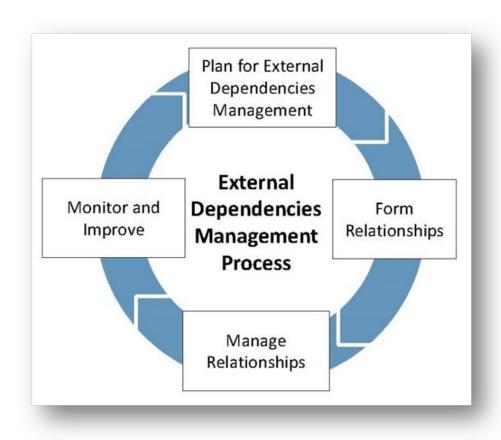


## CYBER RESILIENCE ESSENTIALS (CRE) SELF-ASSESSMENT PACKAGE

SEPTEMBER 2021



## External Dependency Management (EDM)



EDM process outlined in the External Dependencies Management Resource Guide



**Overview**: In 2016, DHS launched the External Dependencies Management (EDM) Assessment, focusing specifically on ensuring the protection and sustainment of services and assets that are dependent on the actions of third-party entities.

**Background**: External Dependencies Management is a domain covered by the CRR. However, EDM and associated issues (e.g., supply-chain management, vendor management) are not addressed at a comprehensive level within the CRR, resulting in the creation of a separate assessment.

**Linkages to CRR**: Despite operating at a more granular level than the CRR, the EDM Assessment borrows heavily from the CRR's methodological architecture and scoring system but remains a CISA facilitated assessment.

## External Dependency Management (EDM)

To provide the organization with an understandable and useful structure for the evaluation, the EDM Assessment is divided into three distinct areas (domains):

- 1. **RELATIONSHIP FORMATION** how the organization considers third party risks, selects external entities, and forms relationships with them so that risk is managed from the start
- 2. RELATIONSHIP MANAGEMENT AND GOVERNANCE how the organization manages ongoing relationships with external entities to support and strengthen its critical services at a managed level of risk and cost
- **3. SERVICE PROTECTION AND SUSTAINMENT** how the organization plans for, anticipates, and manages disruption or incidents related to external entities



## Incident Management Review (IMR)

**Purpose**: An interview-based assessment of an organization's event and incident handling practices.

**Goal**: Provides an organization with a more robust awareness of its event and incident handling and response activities.

- Reviews the activities essential to managing events and incidents to an organization's suite of critical services
- Provides a baseline of practice
- Assists an organization with identifying areas for improvement to strengthen incident handling and response activities
- Provides a comprehensive final report that includes options for consideration





## INCIDENT MANAGEMENT REVIEW

SEPTEMBER 2022

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

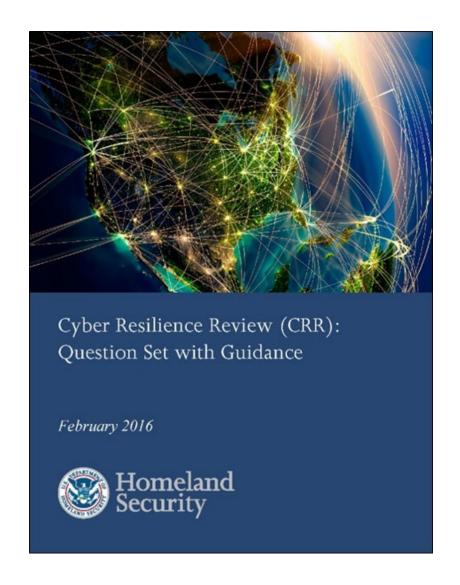


## Cyber Resilience Review (CRR)

**Purpose**: The CRR is an assessment intended to evaluate an organization's operational resilience and cybersecurity practices of its critical services

**Goal**: Helps partners understand and measure cyber security capabilities as they relate to operational resilience and cyber risk

- Evaluates the maturity of an organization's capacities and capabilities in performing, planning, managing, measuring, and defining cybersecurity capabilities
- Based on the CERT ® Resilience Management Model (CERT® RMM)





## Cyber Resilience Review (CRR) | Domains

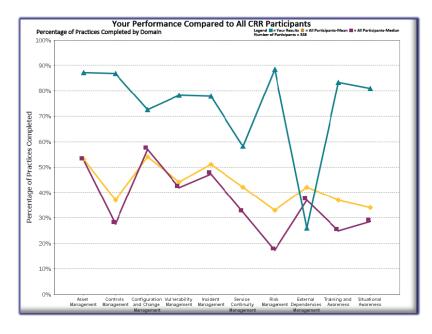
These represent key areas that typically contribute to an organization's cyber resilience— each domain focuses on:

- Documentation in place, and periodically reviewed & updated
- Communication and notification to all those who need to know
- Execution/Implementation & analysis in a consistent, repeatable manner
- Alignment of goals and practices within and across CRR domains

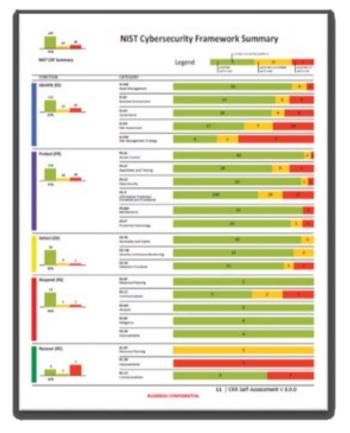
AM	Asset Management identify, document, and manage assets during their life cycle	SCM	<b>Service Continuity Management</b> ensure continuity of IT operations in the event of disruptions
CCM	Configuration and Change Management ensure the integrity of IT systems and networks	RISK	<b>Risk Management</b> identify, analyze, and mitigate risks to services and IT assets
CNTL	Controls Management identify, analyze, and manage IT and security controls	EXD	External Dependency Management manage IT, security, contractual, and organizational controls that are dependent on the actions of external entities
VM	Vulnerability Management identify, analyze, and manage vulnerabilities	TRNG	Training and Awareness promote awareness and develop skills and knowledge
IM	Incident Management identify and analyze IT events, detect cyber security incidents, and determine an organizational response	SA	Situational Awareness actively discover and analyze information related to immediate operational stability and security



#### Benefits of CRR

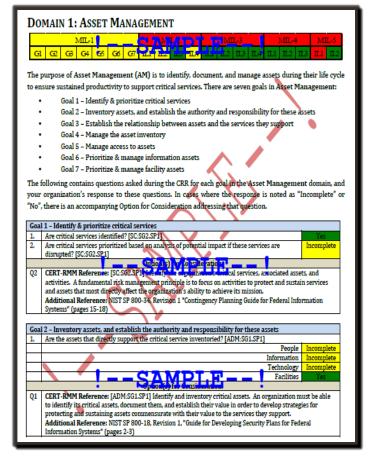


Comparison data with other CRR participants



A summary "snapshot" graphic, related to the NIST Cyber Security Framework.

Domain performance of existing cybersecurity capability and options for consideration for all responses





#### CRR Mappings to Other Frameworks

#### The Cyber Resilience Review has been mapped to:

- NIST Cybersecurity Framework (CSF)
- Health Insurance Portability and Accountability Act (HIPAA) Security Rule
- Federal Financial Institutions Examination Council's (FFIEC) Cybersecurity Assessment Tool (CAT)
- NIST Special Pub 800-53 rev 4 (This mapping has not yet been published)

Most Cybersecurity Frameworks are being mapped to the NIST Cybersecurity Framework as a result that mapping can be used to indirectly map them to the CRR



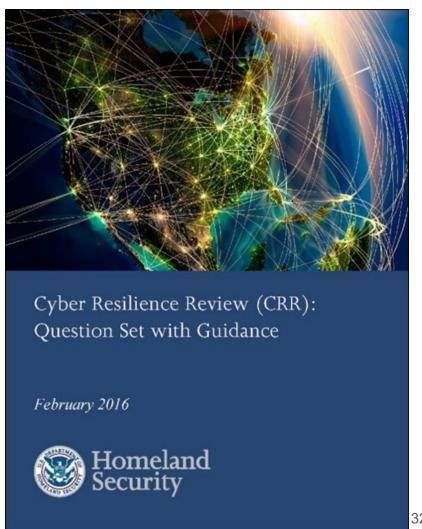
## Cyber Resilience Workshop (CRW)

**Description**: A 2-hour non-technical and informative session designed to help organizations understand cyber resilience concepts and ways to improve management of cyber resilience.

**Goal**: The goal of the workshop is to provide your organization with tangible takeaway information related to risk-based decision making and security planning for critical services.

**Audience**: Organizations that want to learn about an approach to developing repeatable cybersecurity capabilities and practices to protect and sustain their organization's operating environment.





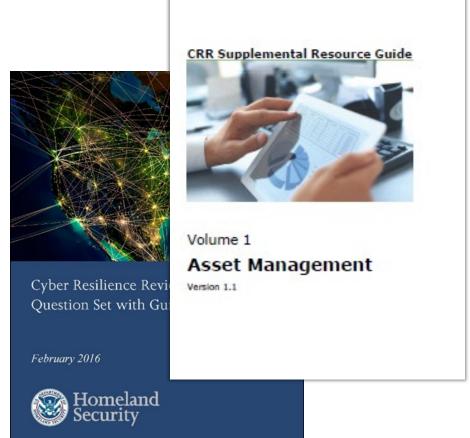
## Asset Management Workshop (AMW)

**Description**: A 2 hour non-technical and informative session designed to help organizations understand asset management concepts and key elements for effective planning and implementation.

**Goal**: The goal of the workshop is to provide your organization with tangible takeaway information on how to establish inventory of high-value assets and defines how to ensure their productivity in support of the organization's critical services.

**Audience**: Organizations that want to learn about an approach to developing an asset management plan to identify, document, and manage their assets.





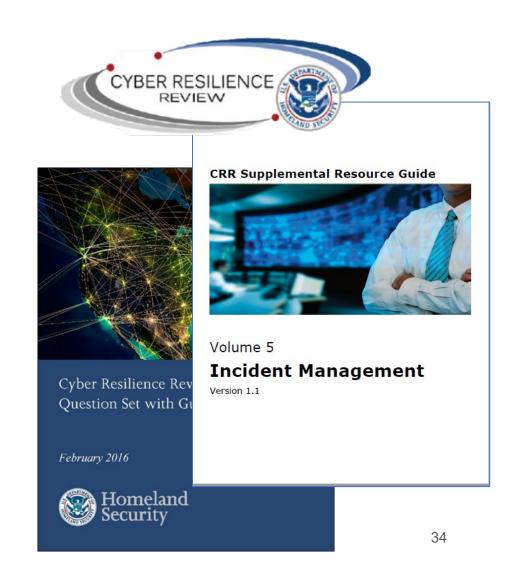
## Incident Management Workshop (IMW)

**Description**: A 2.5-hour non-technical and informative session designed to help organizations understand incident management concepts, key elements, planning and implementation.

**Goal**: The goal of the workshop is to provide organizations with tangible, useful takeaway information on how to manage cybersecurity incidents effectively and, ultimately, achieve operational resilience.

**Audience**: Organizations that want to learn about an approach to developing a cyber incident management capability.





#### OEM Planning Considerations for Cyber Incidents Workshop

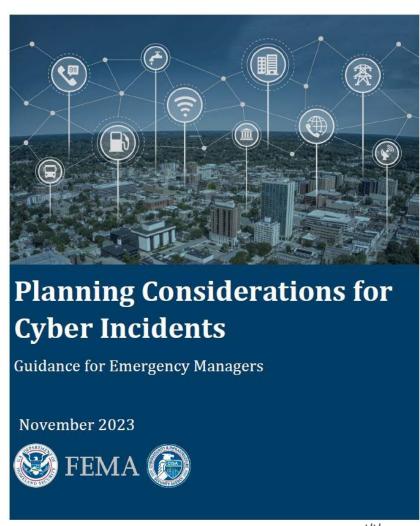
For Emergency Managers managing or taking part in responding to incidents caused by a cybersecurity incident on critical infrastructure.

This is a 2.5 hour non-technical and informative session designed to assist state, local, tribal, and territorial (SLTT) emergency management personnel to collaboratively prepare for a cyber incident and support the development of a cyber incident response plan or annex.

**Audience**: Individuals with responsibilities for -

- **Emergency Management in Government**
- Emergency Management in Academia, Nonprofits, Private Sector
- **Jurisdiction Planning Teams**





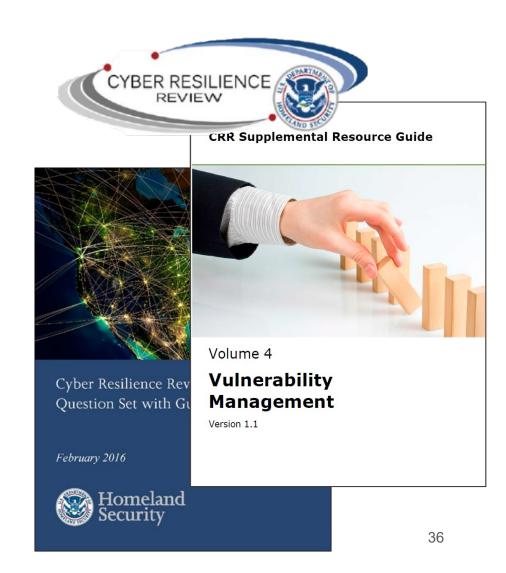
## Vulnerability Management Workshop (VMW)

**Description**: A 1.5-hour non-technical and informative session designed to help organizations understand vulnerability management concepts, key elements, planning and implementation.

**Goal**: The goal of the workshop is to provide your organization with tangible takeaway information on how to manage cybersecurity vulnerabilities effectively and ultimately achieve operational resilience.

**Audience**: Organizations that want to learn about an approach to developing a cyber vulnerability management program to identify, analyze, and manage vulnerabilities in their operating environment.





# Introduction to Digital Forensics Workshop (DFW)

**Description**: A 3 hour informative and hands-on session designed to help organizations understand digital forensics concepts, key elements, planning and implementation.

**Goal**: The goal of the workshop is to provide your organization with tangible takeaway information on how to manage digital forensics effectively.

**Audience**: Tailored for incident response teams; forensic analysts; system, network, and security administrators; and computer security program managers who are responsible for performing forensics for investigative, incident response, or troubleshooting purposes.

**Required**: A laptop is required for the hands-on portion of the workshop.

National Institute of Standards and Technology Technology Administration U.S. Department of Commerce

Special Publication 800-86

#### Guide to Integrating Forensic Techniques into Incident Response

Recommendations of the National Institute of Standards and Technology

Karen Kent Suzanne Chevalier Tim Grance Hung Dang



# Digital Forensics Workshop II (DFW2) | Autopsy

**Description**: A 3 hour informative and hands-on session designed to introduce the Autopsy digital forensic toolkit.

**Goal**: To provide an overview of an easy to use, GUI-based program that allows you to efficiently analyze hard drives and smart phones.

**Audience**: Tailored for incident response teams; forensic analysts; system, network, and security administrators; and computer security program managers who are responsible for performing forensics for investigative, incident response, or troubleshooting purposes.

**Required**: A laptop is required for the hands-on portion of the workshop.





# Cyber Exercise (CYX)

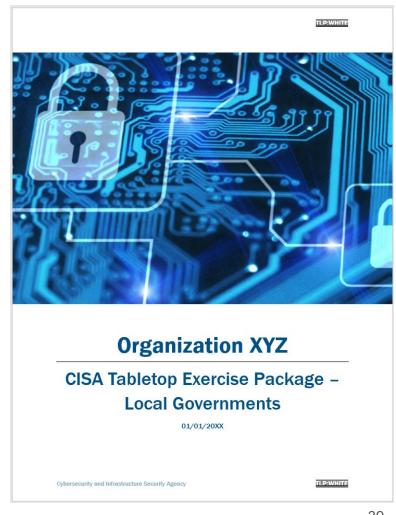
**Description**: A customizable non-technical facilitated cybersecurity tabletop exercise, where organizations are presented with a cyber threat-based scenario and are challenged to consider how their organization would respond, based on existing incident response plans.

**Goal**: The goal of the workshop is to provide organizations an opportunity to assess their level of readiness to respond to and recover from a cybersecurity incident impacting their operating environment.

**Audience**: Organizations that want to assess their level of readiness to respond to and recover from a cybersecurity incident.

Format: In-Person or Virtual





# Vulnerability Scanning Service (CyHy)

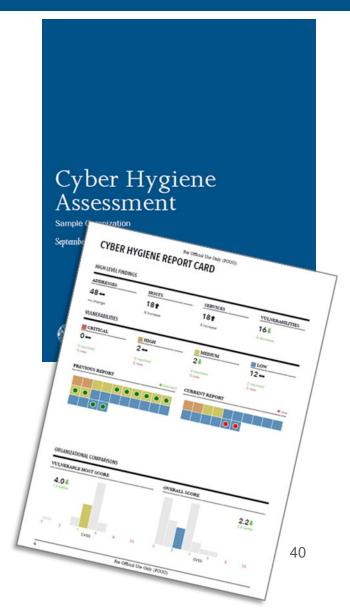
Assess Internet accessible systems for known vulnerabilities and configuration errors

Work with organization to proactively mitigate threats and risks to systems

#### **Activities include:**

- Network Mapping
  - Identify public IP address space
  - Identify hosts that are active on IP address space
  - Determine the O/S and Services running
  - Re-run scans to determine any changes
  - Graphically represent address space on a map
- Network Vulnerability & Configuration Scanning
  - Identify network vulnerabilities and weakness





# Web Application Scanning (WAS)

An Internet based scanning service to assess the "health" of your publicly accessible web applications by checking for known vulnerabilities and weak configurations. Additionally, CISA can recommend ways to enhance security in accordance with industry and government best practices and standards.

#### **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**

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



# Information Sharing



# Cybersecurity Alerts & Advisories

MAR 01, 2023 ALERT **Filters** CISA Releases Decider Tool to Help with MITRE ATT&CK Mapping What are you looking for? FEB 28, 2023 ICS ADVISORY | ICSA-23-059-01 Hitachi Energy Gateway Station Subscribe to CISA Alerts and Advisories Rel SUBSCRIBE NOW https://public.govdelivery.com/accounts/USDHSCISA/subscriber/new? FEB 28, 2023 ALERT

**Advisory Type** Alert Analysis Report Cybersecurity Advisory ICS Advisory ICS Medical Advisory Release Year

CISA Releases Three Industrial Control Systems Advisories

FEB 28, 2023 ALERT

CISA Red Team Shares Key Findings to Improve Monitoring and Hardening of **Networks** 

# Known Exploited Vulnerabilities Catalog

#### **Filters**

What are you looking for?



#### Sort by (optional)



#### Items per page (optional)



APPLY

Vendor/Project +

QUALCOMM | MULTIPLE CHIPSETS



#### Qualcomm Multiple Chipsets Use-After-Free Vulnerability

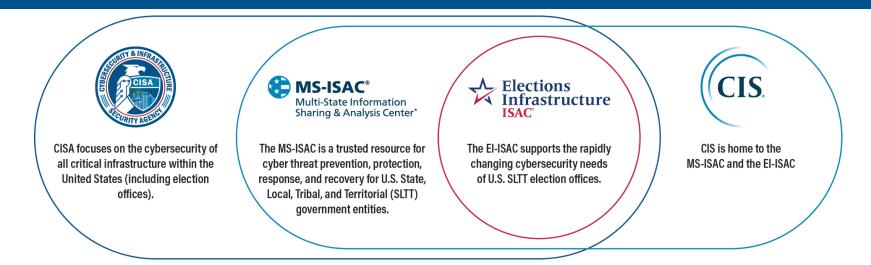
Multiple Qualcomm chipsets contain a use-after-free vulnerability when process shell memory is freed using IOCTL munmap call and process initialization is in progress.

- Action: Apply remediations or mitigations per vendor instructions or discontinue use of the product if remediation or mitigations are unavailable.
- Known To Be Used in Ransomware Campaigns?: Unknown
- Date Added: 2023-12-05
- Due Date: 2023-12-26

Resources and Notes +



### Multi-State Information Sharing and Analysis Center (MS-ISAC)



- The MS-ISAC is designated by the U.S. Department of Homeland Security as the focal point for cyber threat prevention, protection, response and recovery for the nation's state, local, tribal and territorial (SLTT) governments including chief information security officers, homeland security advisors and fusion centers.
- Includes representatives from all 50 states, U.S. territories, hundreds of local governments (including all 50 state capital cities), and tribal governments.
- Operates a 24-hour Integrated Intelligence Center that provides real-time network monitoring, early cyber threat warnings and advisories, vulnerability identification and mitigation and incident response for the nation's SLTT governments.



# Logging Made Easy

CISA's Logging Made Easy (LME) is a no-cost log management solution for small to medium-sized organizations with limited resources that would otherwise have little to no functionality to detect attacks. LME offers centralized logging, proactive threat detection and enhanced security by allowing organizations to monitor their network, identify users, and actively analyze Sysmon data to quickly identify potential malicious activity. As a locally run application, CISA cannot access LME data, ensuring the privacy and security of organizations' information.

LME is dedicated to evolving with the cybersecurity needs of its community. Available to the public, LME serves organizations across private, public and non-profit sectors, especially those operating Windows-based, on-premises networks.

To get started with LME, download it directly from <u>CISA's GitHub page</u>. For any questions, please contact <u>CyberSharedServices@cisa.dhs.gov</u>



### SCuBA Overview

What is SCuBA? The Secure Cloud Business Applications (SCuBA) project provides guidance and capabilities to secure entities' cloud business application environments and protect information created, accessed, shared, and stored in those environments.

What are SCuBA's Benefits? SCuBA will enhance the security of cloud business application environments through additional configurations, settings, and security products.

Secure Cloud Business Applications (SCuBA) Project | CISA





# **Cyber Training**



# **CISA Learning**

Cyber professionals can continue to improve their skills through hands-on training opportunities.

CISA Learning is an online, on-demand training center that provides free cybersecurity training for federal, state, local, tribal, and territorial government employees and to U.S. veterans.

#### Example Content:

- Cloud Computing Security
- Cloud Security What Leaders Need to Know
- Cryptocurrency for Law Enforcement for the Public
- Cyber Supply Chain Risk Management for the Public
- Cyber-essentials
- Understanding DNS Attack
- Understanding Web and Email Server Security

- Don't Wake Up to a Ransomware Attack
- Foundations of Cybersecurity for Managers
- Fundamentals of Cyber Risk Management
- Introduction to Cyber Intelligence
- Securing Internet-Accessible Systems
- 101 Coding for the Public
- 101 Reverse Engineering for the Public



# ICS Training Opportunities

#### ICS-CERT Virtual Learning Portal (VLP)

- Virtual & Instructor Led Training
- No Cost

#### **Courses:**

- Introduction to Control Systems Cybersecurity (101) 8 hrs
- Intermediate Cybersecurity for Industrial Control Systems (201) 8 hrs
- Intermediate Cybersecurity for Industrial Control Systems (202) 8 hrs
- ICS Cybersecurity (301V) 12 hrs
- ICS Cybersecurity (301L) 5 days
- ICS Cybersecurity (401) 5 days





# IMR Training Series

The Identify, Mitigate, and Recover (IMR) incident response curriculum provides a range of training offerings encompassing cybersecurity awareness and best practices for organizations, live red/blue team network defense demonstrations emulating real-time incident response scenarios, and hands-on cyber range training courses for incident response practitioners.



# **Topics for Awareness Webinars & Cyber Range Training:**

- Ransomware
- Cloud Security
- Business Email Compromise
- Vulnerabilities of Internet-Accessible Systems
- Web and Email Server Attacks
- DNS Infrastructure Attacks
- High Value Assets/Critical Assets
- Indicators of Compromise
- Incident Analysis with tool demo
- Investigating logs for incidents

#### **Topics for Cyber Range Challenges & Observe the Attack Series**:

- Ransomware
- Cloud Security
- Business Email Compromise

For more info: <a href="mailto:education@cisa.dhs.gov">education@cisa.dhs.gov</a>
Or visit: <a href="mailto:https://www.cisa.gov/incident-response-training">https://www.cisa.gov/incident-response-training</a>

# Incident Reporting



# Federal Role in Cyber 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.





# Phishing and Incident Reporting / Malware Analysis

#### 24x7 contact number: 888-282-0870 | central@cisa.dhs.gov

#### Where/How/When to Report Incidents: <a href="https://www.cisa.gov/report">https://www.cisa.gov/report</a>

If there is a suspected or confirmed cyber attack or incident that affects core government or critical infrastructure functions and/or results in the loss of data, system availability or control of systems.

#### Report Phishing to: <a href="mailto:phishing-report@us-cert.gov">phishing-report@us-cert.gov</a>

CISA partners with the Anti-Phishing Working Group (APWG) to collect phishing email messages and website locations to help people avoid becoming victims of phishing scams.

#### Advanced Malware Analysis Center: <a href="https://malware.cisa.gov">https://malware.cisa.gov</a>

Provides 24x7 dynamic analyses of malicious code. Stakeholders submit samples via an online website and receive a technical document outlining the results of the analysis. Experts will detail recommendations for malware removal and recovery activities.





### **CISA REGION 6**

#### **Andrew Buschbom**

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Cybersecurity Advisor Region 6 | El Paso, TX & Las Cruces, NM Cybersecurity and Infrastructure Security Agency

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**CELL:** (575) 446-2749

### **CISA INCIDENT REPORTING SYSTEM**

https://www.cisa.gov/report

### **CISA CENTRAL - 24/7 Watch**

(888) 282-0870; report@cisa.gov

### FBI's 24/7 Cyber Watch (CyWatch)

(855) 292-3937; CyWatch@fbi.gov