

# CISA Services and Programs



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# Cybersecurity and Infrastructure Security Agency (CISA)

As America's Cyber Defense Agency and the National Coordinator for Critical Infrastructure Security and Resilience, CISA leads the national effort to understand, manage, and reduce risk to the cyber and physical infrastructure that Americans rely on every hour of every day.



# CISA

## STRATEGIC PLAN 2023–2025



### GOAL 1

#### **CYBER DEFENSE:**

Spearhead the National Effort to Ensure Defense and Resilience of Cyberspace

### GOAL 2

#### **RISK REDUCTION & RESILIENCE:**

Reduce Risks to, and Strengthen Resilience of, America's Critical Infrastructure

### GOAL 3

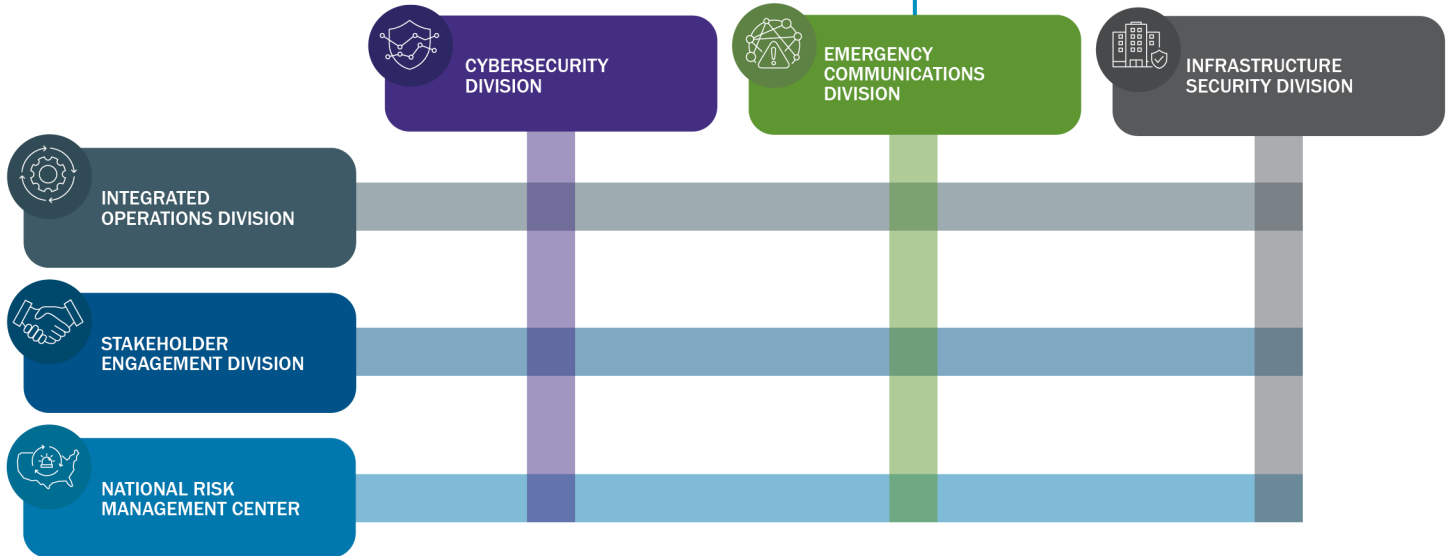
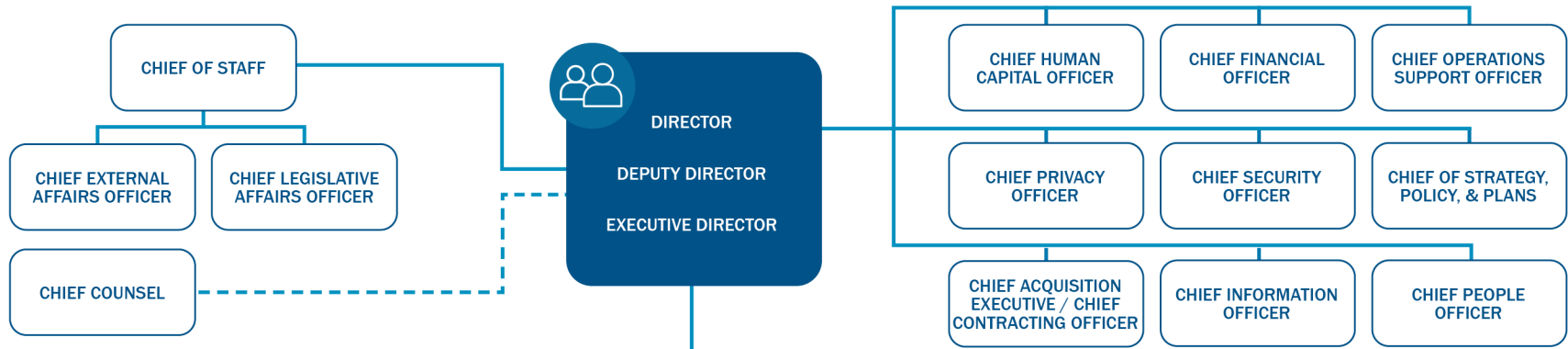
#### **OPERATIONAL COLLABORATION:**

Strengthen Whole-of-Nation Operational Collaboration and Information Sharing

### GOAL 4

#### **AGENCY UNIFICATION:**

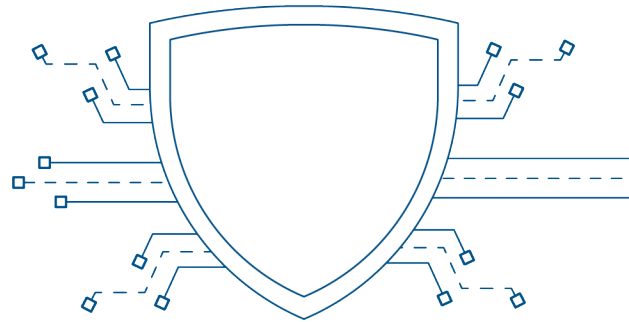
Unify as One CISA Through Integrated Functions, Capabilities, and Workforce



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CISA'S LEADERS AT  
[CISA.GOV/LEADERSHIP](https://www.cisa.gov/leadership)



# Cybersecurity Mission



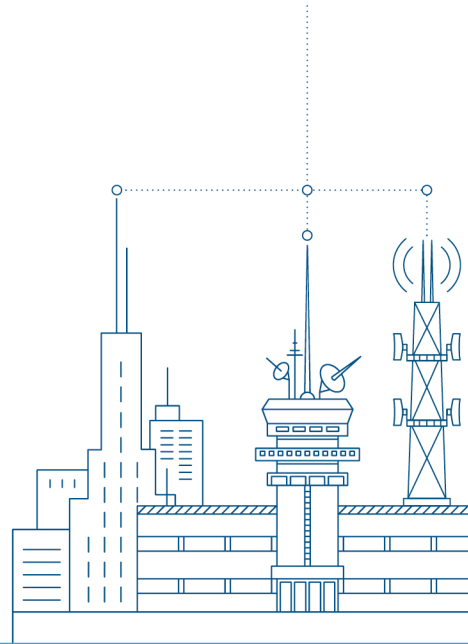
CISA's Cybersecurity Division leads the national effort to reduce the prevalence and impact of cyber incidents by providing services, guidance, and capabilities that address immediate risks and advance toward a secure cyber ecosystem.

## HOW CISA IS CARRYING OUT ITS CYBERSECURITY MISSION:

- ▶ Catalyze Persistent Collaboration Across Government and the Private Sector
- ▶ Expand Operational Visibility into Threats and Vulnerabilities
- ▶ Drive Prioritization and Measure Adoption of the Most Effective Security Measures
- ▶ Serve as the Operational Lead for Federal Civilian Cybersecurity
- ▶ Advance a Technology Product Ecosystem that is Secure by Design



# Emergency Communications Mission



## HOW CISA IS CARRYING OUT ITS EMERGENCY COMMUNICATIONS MISSION:

- ▶ Expand Interoperability
- ▶ Coordinate Effective Communications Planning
- ▶ Increase Priority Services Adoption with Interoperable Priority

CISA's Emergency Communications Division supports and promotes communications used by emergency responders and government officials to keep America safe, secure, and resilient.



# Infrastructure Security Mission



CISA's Infrastructure Security Division leads the coordinated effort to reduce risks posed to our critical infrastructure, whether from man-made or natural causes.

## HOW CISA IS CARRYING OUT ITS INFRASTRUCTURE SECURITY MISSION:

- ▶ Combat Terrorism and Targeted Violence
- ▶ Conduct Exercise and Training Programs
- ▶ Enhance School Safety with our School Safety Task Force
- ▶ Assess and Analyze Critical Infrastructure
- ▶ Identify and Prioritize Critical Infrastructure
- ▶ Strengthen Chemical Security with ChemLock



# National Risk Management Center



## HOW CISA IS CARRYING OUT ITS RISK MANAGEMENT MISSION :

- ▶ Provide Risk Analysis to Customers Throughout the Critical Infrastructure Community
- ▶ Drive Shared Understanding and Collaborative Mitigation of Risks
- ▶ Drive Action in Focused, Prioritized Risk Areas

CISA's National Risk Management Center provides planning, analysis, and collaboration to lead strategic risk reduction efforts for the nation.



# Stakeholder Engagement



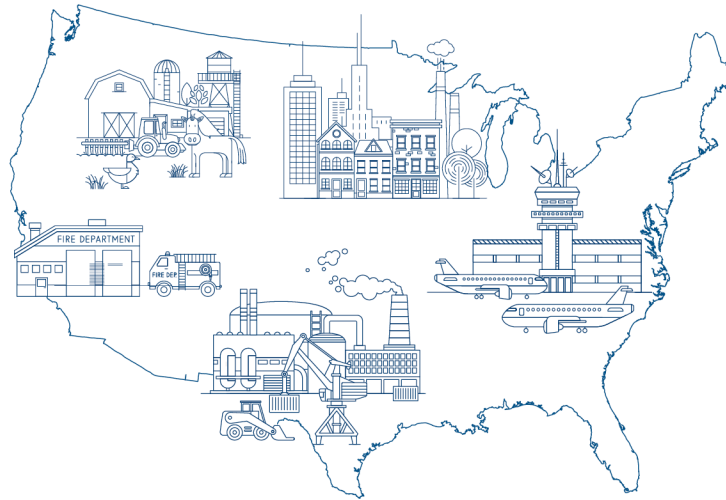
CISA's Stakeholder Engagement Division builds and maintains national and international partnerships and engagements while serving as the hub for the shared stakeholder information that advances unified risk reduction efforts.

## HOW CISA IS CARRYING OUT ITS STAKEHOLDER ENGAGEMENT MISSION :

- ▶ Plan and Implement Collaboratively Stakeholder Engagements and Partnership Activities to Advance a Unified Mission Delivery
- ▶ Use Stakeholder Insights and Feedback to Inform CISA Product Development and Mission Delivery
- ▶ Ensure Stakeholders Have Easy Access to CISA Programs, Products, Services, and Information



# Integrated Operations



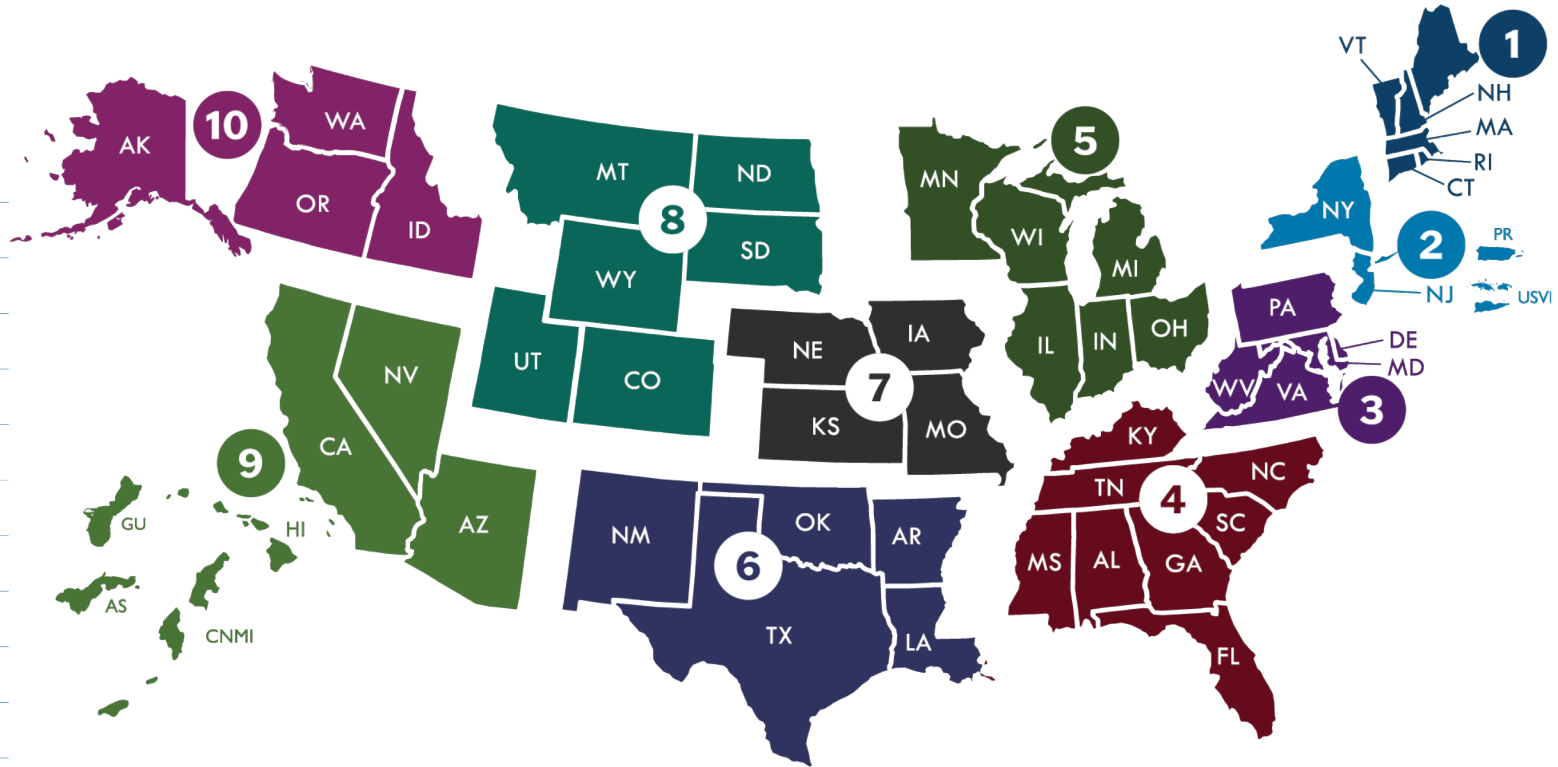
## HOW CISA IS CARRYING OUT ITS INTEGRATED OPERATIONS MISSION:

- ▶ Provide Operational Visibility to Understand, Manage, and Reduce Risk to the Nation
- ▶ Offer a Unified Regional Approach to Sharing Information and Delivering CISA Services

CISA's Integrated Operations Division enhances the resilience of our nation's critical infrastructure by taking an integrated approach to delivering services and sharing information. By meeting our stakeholders where they are, we help critical infrastructure owners and operators mitigate risk.

# CISA Regions

- 1 Boston, MA
- 2 New York, NY
- 3 Philadelphia, PA
- 4 Atlanta, GA
- 5 Chicago, IL
- 6 Dallas, TX
- 7 Kansas City, MO
- 8 Denver, CO
- 9 Oakland, CA
- 10 Seattle, WA



# Critical Infrastructure Impact on the Nation

- 16 critical infrastructure sectors create a widely dispersed network, but sectors are interconnected and interdependent
- Critical infrastructure includes:
  - Vital physical and cyber systems, and networks
  - Thousands of essential energy, water and health facilities, transportation networks, agriculture, defense industry, information technology and other systems



# CISA Scalable Services

## Cyber Hygiene Services

Manage external threat surface with no-cost vulnerability and web application scanning

## DotGOV (Public Organizations)

Managed top-level domain, easily identifiable as a government organization to protect against impersonation and hijacking

## Priority Telecommunication Services

Government Emergency Telecommunication Service (GETS), Wireless Priority Service (WPS), and Telecommunication Service Priority (TSP)

## Cyber Resiliency Toolkits

Evaluate current capabilities, identify improvement to resiliency, develop plans



## Vulnerability Scanning (CyHy)

- Continuously monitor and assess Internet accessible network assets
- Identify exposed assets and exploitable vulnerabilities
- Weekly findings report
- Ad-hoc alerts on urgent findings

## Web Application Scanning (WAS)

- Vulnerability scanning of publicly accessible web applications
- Identifies risky services, vulnerabilities, and misconfigurations
- Monthly and on-demand reports



# Cyber Hygiene Services

Monitor and mitigate attack vectors to reduce organizational exposure to threats

- Typically reduce risk by 40% in the first 12 months
- Identify unmanaged vulnerabilities
- Increase accuracy and effectiveness of response activities
- Better visibility of security boundaries

### Getting Started

Email: [vulnerability@cisa.dhs.gov](mailto:vulnerability@cisa.dhs.gov)  
Subject: "Requesting Vulnerability Scanning Services"

# CISA Field Delivered Services

## Cyber Protective Visit (CPV)

Initial visit facilitated by local Security Advisors to assess interest in CISA services

## Cyber Security Evaluation Tool (CSET)

Desktop assessment tool. Used to evaluate cybersecurity stance using recognized government and agency standards and recommendations.

## Assessments (open enrollment / self service)

Non-technical assessment of the implementation of organizational cybersecurity controls

- Cybersecurity Performance Goals (CPG)
- Cyber Infrastructure Survey (CIS)
- External Dependencies Management (EDM)
- Ransomware Readiness Assessment (RRA)
- Incident Management Review (IMR)
- Cyber Resilience Review (CRR)

## Tabletop Exercise

Functional test of organizational incident response plans

## Technical Services (Invitation only)

In-depth technical review of cybersecurity control effectiveness

- Remote Penetration Test (RPT)
- Risk and Vulnerability Assessment (RVA)
- Validated Architecture Design Review (VADR)



## Intended to Be

- Easy to use and complete
  - 38 questions total
- Baseline set of cybersecurity practices
  - Applicable across critical infrastructure
  - Known risk-reduction value
- Benchmark for critical infrastructure operators
  - Measure and improve cybersecurity maturity
- Combination of recommended practices
  - For information and operational technology
  - Prioritized set of security practices
- Unique from other control frameworks
  - Consider not only the practices that address risk to individual entities, but also the aggregate risk to the Nation

## Cybersecurity Performance Goals (CPGs)

A common set of protections that all critical infrastructure entities - from large to small - should implement to meaningfully reduce the likelihood and impact of known risks and adversary techniques



# CISA Technical Assessments

## Remote Penetration Testing (RPT)

- 100% remote penetration test of network controls
- Potential vulnerabilities tested based on the potential level of damage and in coordination with the customer
- Determine susceptibility to an actual attack by infiltrating the target environment, using current, real-world tactics, techniques, and procedures
- Includes network, web application, wireless, war dial, and social engineering in the form of an email phishing campaign

## Risk and Vulnerability Assessment (RVA)

- Includes both off-site remote penetration test and on-site, in person assessment
- Identify weaknesses through network, system, and application penetration testing.
- Test stakeholder operational environment, using a standard, repeatable methodology to deliver actionable findings and recommendations.
- Analyze collected data to identify security trends across all RVA stakeholder environments

## Validated Architecture Design (VADR)

- Created for Operational Technology (OT) and Industrial Control Systems (ICS)
- Test operational environment, using a standard, repeatable methodology to deliver actionable findings and recommendations
- Analysis and representation of network traffic, data flows, and device relationships
- Identifies anomalous communications flows

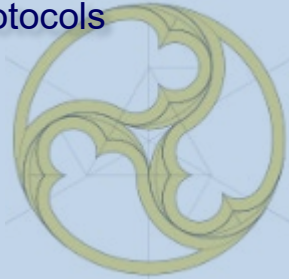


# CISA Self-Service Products

## Malcom

A powerful open-source network traffic analysis tool suite.

- PCAP, Zeek logs, Suricata alerts
- Supports many common protocols



## Logging Made Easy

Open-source suite of tools used for centralized log collection for organizations that:

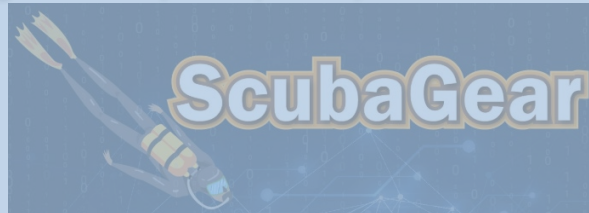
- Have limited resources
- Do not have an existing SOC, event and log management, and monitoring capabilities
- Need a log management and threat detection system



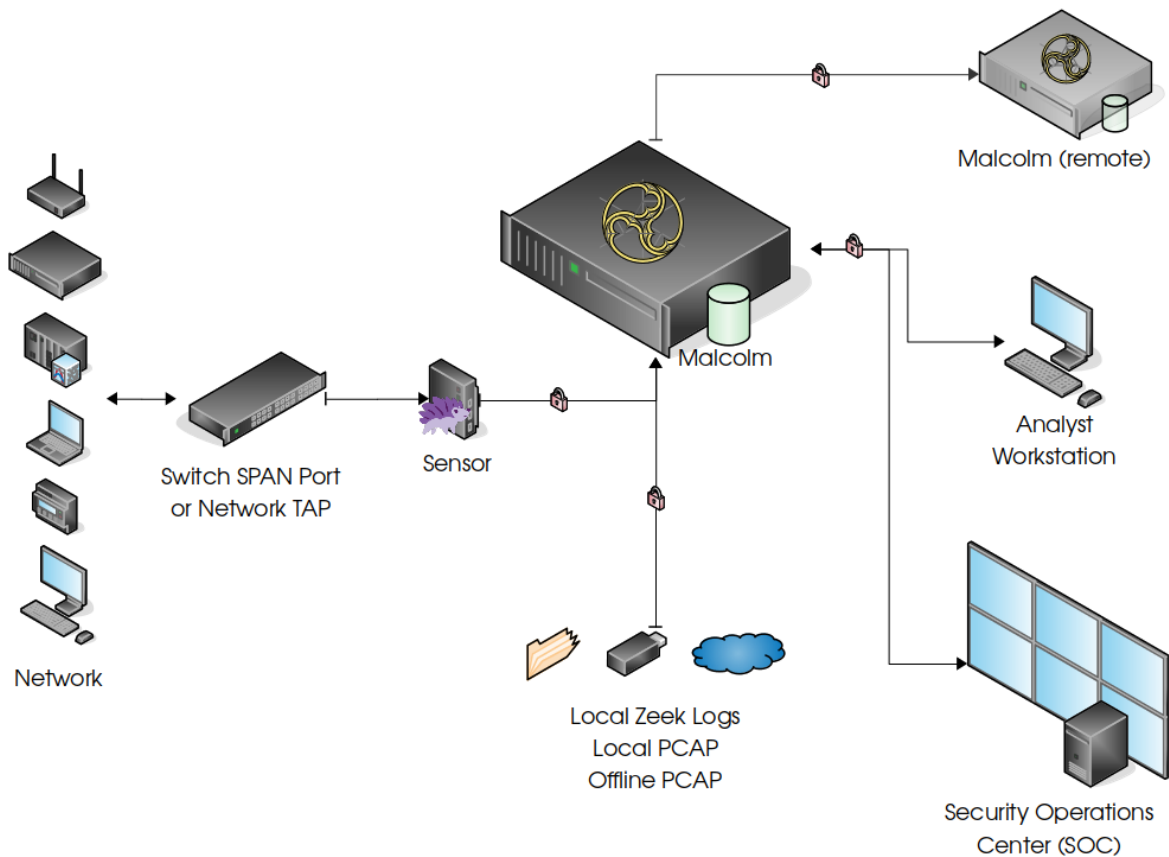
## SCUBA

Secure cloud business application environments against CISA secure configuration baseline

- Microsoft tenant environments
- Google Workspace (GWS)



# Malcolm



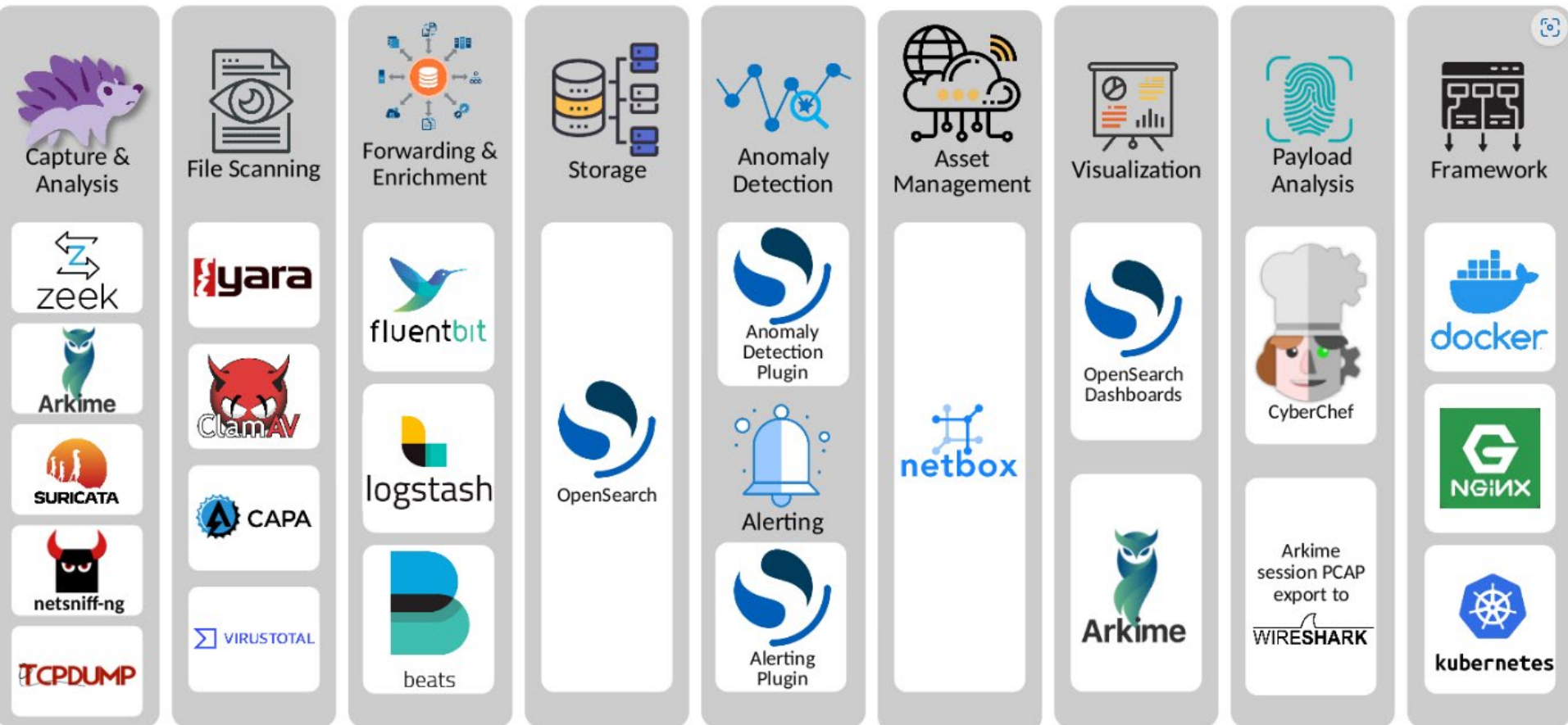
Easily deployable traffic analysis tool suite

- Open source and easy to use
- Full packet capture artifacts (PCAP) and Zeek logs
- Stream-lined deployment
- Secure communications
- Permissive license
- Full download available from CISA GitHub site

<https://github.com/cisagov/Malcolm>



# Malcolm





## CLIENTS



### Description

An arbitrary number of machines to be monitored using LME

### Operating System

Windows

### Software Used by LME

Sysmon

## EVENT COLLECTOR



### Description

A server for collecting and forwarding logs from the client

### Operating System

Windows

### Software Used by LME

Winlogbeat

## ELK SERVER



### Description

A server for storing and analyzing the logs

### Operating System

Linux

### Software Used by LME

Docker, git, Elasticsearch, Logstash, and Kibana

Threat detection solution for small to medium sized organizations that would have little to no functionality to detect attacks

- Monitor networks, identify users, and actively analyze Sysmon data
- Log management and threat detection system
- Adaptable dashboards

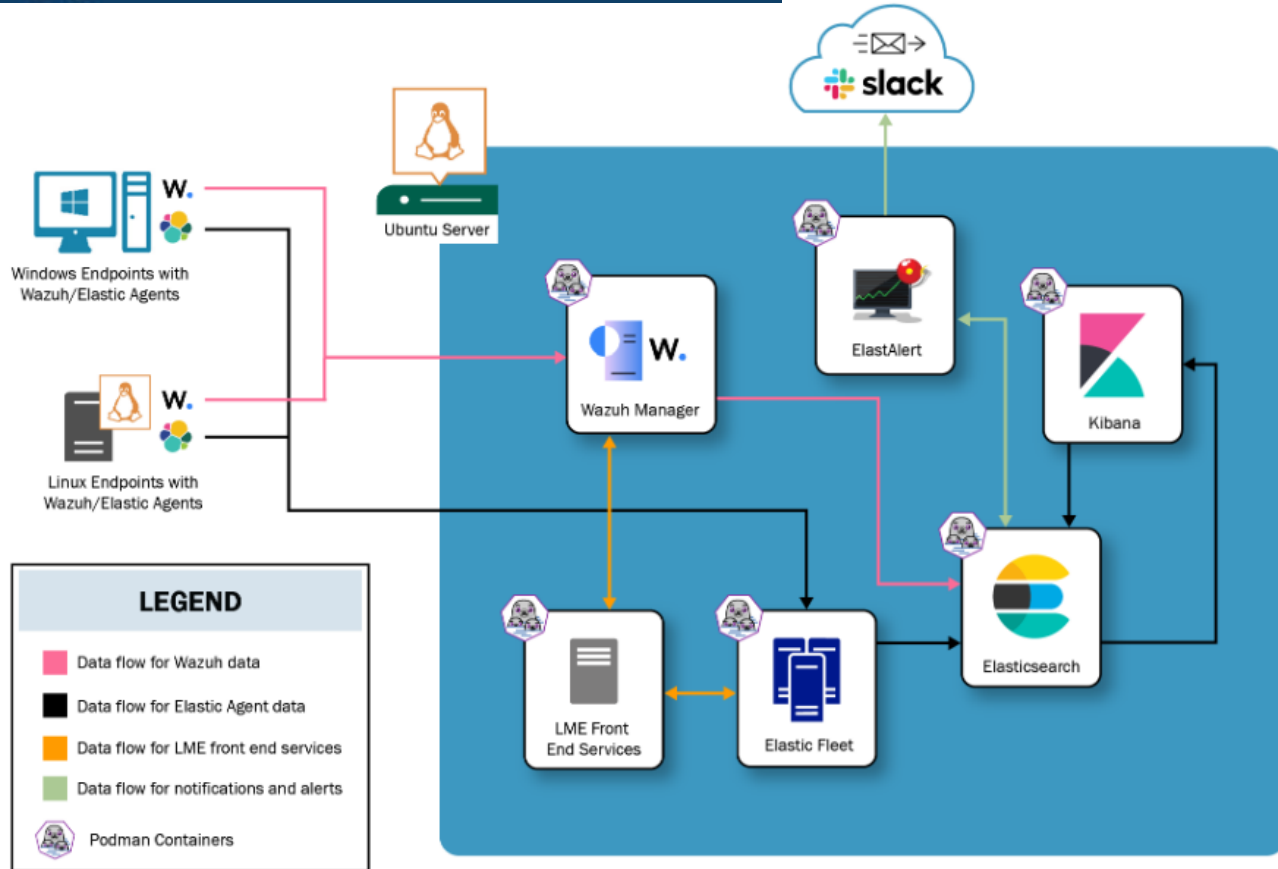
<https://github.com/cisagov/LME>

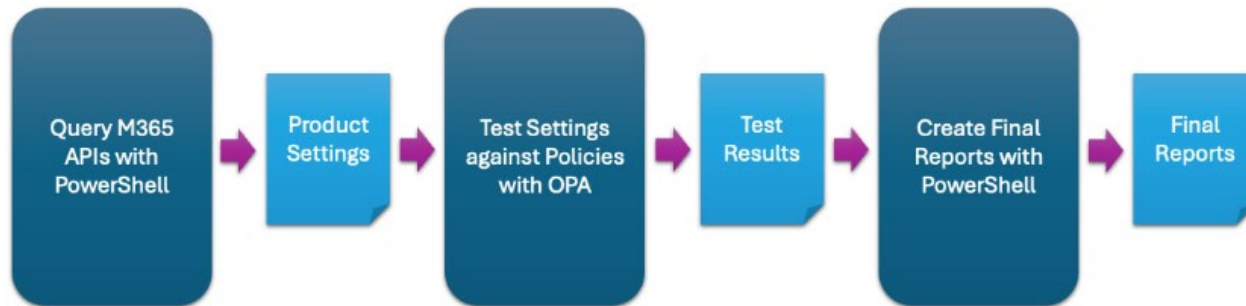
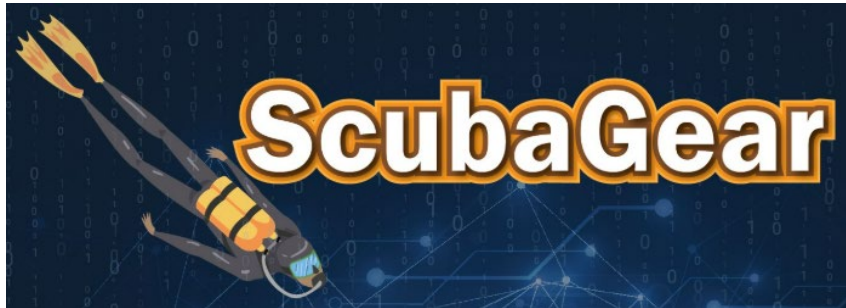




# LOGGING MADE EASY

COMPONENT	PURPOSE
Elastic Agent	Collects Logs from Clients
Elastic Fleet	Elastic Agent Management
Wazuh Agent	Endpoint Security Monitoring & Response
Wazuh Manager	Wazuh Agent Management
ElastAlert	Framework for Notifications & Alerts
Elasticsearch	Log Storage, Query & Search
Kibana	Build Dashboards & Visualize Data
Podman	Container Management





Secure cloud business application environments assessment tool using CISA secure configuration baselines

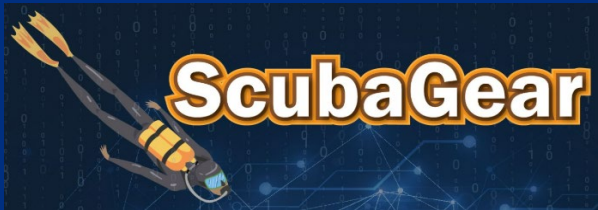
- SCUBA Gear - M365 tenet environments

<https://github.com/cisago/ScubaGear>

- ScubaGoggles - Google Workspace (GWS)

<https://github.com/cisago/Scubagoggles>





- Microsoft Entra ID
- Defender
- Exchange Online
- Power BI
- Power Platform
- SharePoint & OneDrive
- Teams

## ScubaGoggles



- Common Controls
- Gmail
- Google Calendar
- Google Chat
- Google Classroom
- Google Drive and Docs
- Google Meet
- Google Sites
- Groups for Business



# Available Secure Baselines

# Vendor and Supplier Risk Awareness

## Vendors / Suppliers

- Hold suppliers / manufactures accountable for the security outcomes of their products
- Develop purchasing criteria that emphasize the importance of secure by design
- Establishing policies requiring the security of software
- Prioritize purchases from vendors that practice Secure by Design concepts

## Organization

- Accept the risks associated with specific technology products should be formally documented
- Obtain executive management support when enforcing these criteria in purchasing decisions
- Forge strategic relationships with their key IT suppliers
- Provide vehicles to resolve issues
- Expect transparency from their technology suppliers about internal control posture



# Resources



# 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 (FOIA) requests,
  - Public release under State, local, tribal, or territorial disclosure laws,
  - Use in civil litigation and
  - Use in regulatory purposes.
- Required: Express and Certification Statement Form
- Find out more: <https://www.cisa.gov/resources-tools/programs/protected-critical-infrastructure-information-pcii-program>



# CISA Resources

- Known Exploited Vulnerabilities (KEV) Catalog
  - Current CVE list
  - Subscribe for automated KEV Catalog update bulletin
  - Find out more: <https://www.cisa.gov/known-exploited-vulnerabilities-catalog>
- Automated Indicator of Sharing (AIS)
  - Real-time exchange of machine-readable cyber threat indicators and defensive measures
  - Setup STIX and TAXII Feed for SEIM available at: <https://www.cisa.gov/topics/cyber-threats-and-advisories/information-sharing/automated-indicator-sharing-ais/how-share-cyber-threat-information-through-ais>
- Join the Joint Cyber Defense Collaborative (JCDC)
  - Public and private sector partnerships
  - Unify cyber defenders from organizations worldwide
  - Proactively gathers, analyzes, and shares actionable cyber risk information to enable synchronized, holistic cybersecurity planning, cyber defense, and response
  - Find out more: <https://www.cisa.gov/topics/partnerships-and-collaboration/joint-cyber-defense-collaborative>

# Malicious Activity Resources

- StopRansomware.gov – CISA resources and guidance for ransomware information

<https://www.cisa.gov/stopransomware>

- Ransomware Vulnerability Warning Pilot (RVWP) - Proactive vulnerability notifications for Critical Infrastructure entities

<https://www.cisa.gov/stopransomware/Ransomware-Vulnerability-Warning-Pilot>

- Cyber Incident Reporting for Critical Infrastructure Act of 2022 (CIRCA) - Nationwide initiative to combat ransomware

<https://www.cisa.gov/topics/cyber-threats-and-advisories/information-sharing/cyber-incident-reporting-critical-infrastructure-act-2022-circia>



## Getting Ahead of the Ransomware Epidemic:

CISA's Pre-Ransomware Notifications  
Help Organizations Stop Attacks  
Before Damage Occurs



# Incident Reporting

- CISA
  - Incident Reporting Center <https://www.cisa.gov/forms/report>
- FBI
  - Internet Crime Complaint Center (IC3) <https://ic3.gov/default>
- State of Oregon
  - State of Oregon SOC, [ESO.SOC@das.oregon.gov](mailto:ESO.SOC@das.oregon.gov), Phone: 503-378-5930
- MS-ISAC
  - Security Operation Center, [soc@cisecurity.org](mailto:soc@cisecurity.org), Phone: 866-787-4722





For more information:

<https://www.cisa.gov/cyber-resource-hub>

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