

## Using SecurityCenter CV for GDPR

Where can technology help?



## Agenda

- Data controller vs Data processor
- Article 32
- How Tenable can help the DPO
- Information Security Frameworks
- SecurityCenter Continuous View for GDPR
  - Dashboards
  - Reports
  - PII
- Summary



# Data Controller vs Data Processor

## Data Controller vs Data Processor

#### Data Controller

- Organisation or person who determines the purposes and method in which personal data is processed
- Includes organisations like retailers, medical centers, banks, law firms that collect data on their client

#### Data Processor

- Organisation or person who processes data on behalf of the Data Controller
- Includes organisations like payroll companies, cloud storage providers, accounting firms
- All could hold or process data on behalf of another organisation



#### Article 32

- Defines security measures regarding the processing of personal data
- Provides specific measures that could be considered "appropriate to the risk"
- These include
  - Pseudonymisation and encryption
  - Ensure CIA and resilience of processing systems
  - Restoration of availability and access
  - Process for regular testing assessing and evaluating the measures implemented





# How Tenable can help the DPO

## What is the DPO?

- Data Protection Officer
  - Roles and activities outlined in articles 37-39
  - Involved in the Data Protection Impact Assessment (DPIA) – Outlined in article 35
  - Primary purpose is to advise a Data Controller and Data Processor on compliance with the GDPR



## **DPO requirements**

- Perform assessments required for the security of hosts in order to verify compliance with the GDPR
- These assessments primarily fall into the areas of:
  - Host Discovery
  - Vulnerability Management
  - Compliance
- NOTE: This role is primarily advisory. Process definition lies with the DC, DP and the entire organisation, not the DPO alone.



### How Tenable can help

- Information Security Framework
- Asset discovery and management
- Vulnerability Management
- Compliance and Audit reports
- PII in the clear





# Information Security Frameworks

## Information Security Frameworks

- The GDPR does not prescribe a particular framework
  - However, adhering to a framework will make demonstrating compliance with Article 32 and Article 83 much more likely in the event of a breach



### Frameworks of note

- ISO/IEC 27000
- Critical Security Controls for Effective Cyber Defense (CIS Controls)
- NIST 800-53 and 800-171





# SecurityCenter Continuous View

### What is SecurityCenter CV?



#### **True Continuous Monitoring**

SecurityCenter Continuous View<sup>®</sup> delivers a real-time, holistic view of all IT assets, network activity and events so you can find exploits and fix vulnerabilities faster.



## Asset Discovery and Management

- Discover all assets on your network
  - Agent-based scanning
  - Active network scanners
  - Passive network monitors
  - Classify and combine assets
    - Define your network
    - Automatically
    - Logically



#### Dashboards and ARCs

#### ISO 27000

#### 9 Assurance Report Cards (ARCs)

#### 11 Dashboards

#### **CIS** Controls

8 Assurance Report Cards (ARCs)

#### 7 Dashboards



## Framework Assurance Report Cards

Sec	urityCenter 😒 Dashboard + Analysis + Scans + Reporting +	sets Workflow + Users + 📤 Security Manager +	
Ass	surance Report Cards	+Add O Options ~	
		SecurityCenter 😙 Dashboard - Analysis - Scans - Reporting - Assets Workflow - Users -	A Security Manager
	CIS CSC: Data Protection (CSC 13,14) Last Evaluated Aug 27, 2017 0501 ©     X 1. No data leakage has been detected	SO/IEC27000 - Asset Management Law Embland Aug 27, 2017 04.01 02	÷
	<ul> <li>2. No systems with data leakage events communicate outside the network</li> </ul>	× 1. At least 70% of actively and passively detected systems have been scanned in the last 7 days	287 / 11834
	3. Less than 5% of systems have data exposure vulnerabilities	X 2. At least 70% of systems are registered in DNS	337 / 11834
	<ul> <li>4. Less than 5% of systems have cryptographic vulnerabilities</li> </ul>	X 3. Scanned mobile devices that have been detected within the last 7 days	0
	✓ 5. Less than 5% of systems have plaintext/cleartext vulnerabilities	X 4. Wireless access point devices that have been detected within the last 7 days	0
	6. Less than 5% of data protection compliance checks failed	5. At least 70% of systems have had their software inventoried in the last 90 days	198 / 11834
	✗ 7. Less than 5% of file integrity compliance checks failed	6. At least 70% of systems have been inventoried for Microsoft Office or Adobe applications	9 / 11837
	× 8. Less than 5% of removable media and USB compliance checks failed	7. Less than 5% of systems are running unsupported software	76 / 11834
	× 9. No systems have been detected interacting with malicious IPs	X ISO/IEC27000 - Compliance Management	*********
	CIS CSC: Devices and Software (CSC 1,2,3,8,18) Latt Evaluated Aug 27, 2017 0300 C     1. No new hosts detected Actively, Passively or by Event last 72 hours	ISO/IEC27000 - Continuous Monitoring Last Evaluated Aug 27, 2017 04:01 2     1. No systems have high indicator alerts	53 / 11887
	2. No new MAC address found on the network in the last 72 hours.	<ul> <li>2. Less than 15% of systems have detected intrusion activity</li> </ul>	110 / 11891
	× 3. No Unsupported Software installed on any host.	X 3. No high usage activity has been detected	8/11837
	× 4. No systems have missing patches over 30 days old.	4. Less than 5% of systems report activity spikes	385 / 12111
	<ul> <li>5. No Software Installation events have been detected over the last 72 hours</li> </ul>	X 5. Less than 5% of systems report continuous activity	1337 / 12958
	<ol> <li>Ko systems are infected with malware.</li> </ol>	✓ 6. Less than 5% of systems are reporting invalid user login attempts	39 / 11853
	CIS CSC: Foundational Cyber Hygiene (CSC 1,2,3,4,5)	X ISO/IEC27000 - Data Leakage Monitoring	x x x v v v x 4
	× 1. No new hosts detected Actively, Passively or by Event last 72 hours.	ISO/IEC97000 _ Wilsorshills: Management	
	× 2. No Unsupported Software installed on any host.		
	✗ 3. Less than 5% of secure configuration compliance checks failed.	1. At least 90% of Windows, Mac OS X, and Linux/UNIX detected systems have been audited in the past 7 days	215 / 463
	<ol> <li>A. No systems have exploitable vulnerabilities.</li> </ol>	2. Less than 25% of systems scanned have critical and high severity vulnerabilities	1791 / 11834
	<ul> <li>5. Less than 5% of user access and least privilege compliance checks failed</li> </ul>	X 3. Less than 5% of systems have unpatched vulnerabilities where patch was published over 30 days ago	1994 / 11834
		X 4. No scanned mobile devices have exploitable vulnerabilities	42 / 1276
		Less than 5% of systems are running unsupported software that have exploitable vulnerabilities	75 / 11834
		6, Less than 10% of Windows systems have exploitable vulnerabilities	01/02

7. Less than 10% of Linux systems have exploitable vulnerability

tenable

#### Framework Dashboards

SecurityCenter 😴 Dashboard + Analysis + Scans + 1	Reporting • Assets Workflow • Users •		La Security Manager ◄			
Add Dashboard Template		All - CIS	Q + Back			
CIS Audit Summary When dealing with compliance regulation	is, ear SecurityCenter 😒 Dashboard + Analysis + Scans + Reporting +	Assets Workflow - Users -	41-4 A-47 0017		& Security H	Manager +
servers, and databases used within organ	Add Dashboard Template			All 👻 ISO	٩	← Back
CIS CSC: Logging and Monitor Monitoring of system logs is critical in re-	ing (	today regarding data leakage are employees that deliberately or unkno from employees engaging in behaviors that place the organization at ri ch can aid in reducing risk, protect customer privacy, and keep confide	wingly leak confidential information. Although son lek. The ISO/IEC27000 Data Leakage Monitoring c ential data secure.	ne data loss occurs from dashboard can assist	Updated: Aug 27, 2017	7
monitoring errors, and can aid in improvi	ng vu				NS PVS LCE	)
analysis ois cec event events log	g m ISO/IEC27000: Change Control Managen As changes to devices, policies, files, and folders occ system outages, data loss, and can add unwarted see	nent ur on a daily basis, many organizations often lose track of changes that curity risks and increased costs for an organization. The ISO/IEC27000	t can leave a network vulnerable to attack. The sm Change Control Management dashboard can ass	nallest change can lead to sist the organization in	Updated: Aug 27, 2017	7
Identifying when software is installed, cha from unwanted or potentially dangerous a presented aligns with CIS CSC 2, 3, 7, 8,	E set for an and network change control events.				LCF	1
application os oso maiware softwa	ISO/IEC27000: Boundary Defense Firewalls and routers are normally the first layer of definition of the set security policies of the set of the	ense in protecting a network against threats, however without a multi-la an leave critical systems exposed to attacks and network breaches. T	ayered defense strategy, boundary devices can be he ISO/IEC27000 Boundary Defense dashboard c	e easier to breach. Devices can assist the organization in	Updated: Aug 27, 2017	7
Establishing a starting point, which can in presented in this dashboard contains bas deshboard aligns with CIS CSC and the it organization.	mprov detecting intrusion events, identifying suspicious activ	ity, and monitoring remote access devices on a network.	ning remote access devices on a network.			
CIS CSC: Account Monitoring a	SO/IEC27000: Malware Detection  With the explosive rise in malware, many organizations fail short of having adequate protection. As the threat landscape continues to evolve, some malware can bypass traditional security prevention tools, which can leave an organization vulnerable to attack. The ISO/IEC27000 Malware Detection dashboard can assist the organization in monitoring network endpoints for potential malware, bothst interactions, mail document of the advection dashboard can assist the organization in monitoring network endpoints for potential malware, bothst interactions, mail document of the advection dashboard can assist the organization in monitoring network endpoints for potential malware, bothst interactions, mail document of the advection dashboard can assist the organization in monitoring network endpoints for potential malware, bothst interactions, mail document of the advection dashboard can assist the organization in monitoring network endpoints for potential malware.		ional security prevention tools, ial maiware, botnet	Updated: Aug 27, 2017	7	
data loss is increased. This dashboard all	Igns v Barrier Bar				NS PVS LCE	3
CIS CSC: Devices and Ports (C As new technologies continue to advance organization. The data presented alions v	SC 1 Sc	leaving a network on a daily basis, which can be difficult to manage pr d what software is installed on the network. The ISO/IEC27000 Asset & ntial threats, manage software licensing, and ensure compliance.	roperly. Organizations that have an accurate asset Aanagement dashboard can assist the organization	management system can n in providing an accurate	Updated: Aug 27, 2017	7
					NS PVS LCE	1
	ISO/IEC27000: Vulnerability Managemen	t	menonement maters in place. This are law a addi	and an advance on a state band and	Updated: Aug 27, 2017	7



With the growing number of threats against network infrastructures, many organizations still do not have an adequate patch management system in place. This can leave ortical systems unpatched and unknerable for a significant period of time till the next patch cycle, or til a manual patch is applied. The ISO/IEC27000 Vulnerability Management dashboard provides valuable information on outstanding unknerabilites, mitigation progress, and opportunities to reduce risk.

#### Framework Reports

- ISO27000 Asset Management
  - Information on new and existing assets
  - ISO27000 Vulnerability Management
    - Current and recently fixed vulnerabilities
  - ISO27000 Compliance Management
    - Latest information on configuration compliance
- ISO27000 Data Leakage
  - Variety of information to complement other DLP solutions



## PII in the clear

- SecurityCenter CV allows you to scan typical file types for potential PII
  - National Insurance Numbers
  - Social Security Numbers (International)
  - Credit Card Numbers
  - SWIFT Details
  - Drivers license
  - More...



## Summary

- Tenable SecurityCenter CV assists you in your GDPR endeavours in multiple ways
  - Offers multiple framework options to support GDPR activities
  - Comprehensive asset discovery and coverage
  - Out of the box framework analysis components (ARCs/Dashboards)
  - Multiple audit reports for compliance
  - Support and integration into other key systems



