

CONTINUTY



StorageGuard





$C \odot \cap T \cap U \cap Y$

Founded in 2005, serving leading enterprises worldwide

How we help our customers:

- Securing Storage & Backup [StorageGuard]
- Govern and Manage IT Recoverability [RecoveryGuard]













II NIST (National Institute of Standards and Technology) che fissa gli standard di sicurezza per il Dipartimento di Stato USA ha incaricato il CTO di Continuity, Doron Pinhas, per redarre la guida di sicurezza delle infrastrutture di storage come co-autore. Disponibile a questo link: <u>https://csrc.nist.gov/publications/detail/sp/800-209/final</u>

SELECTED CUSTOMERS











BANK OF OKLAHOMA

swisscom









Topmost Critical ICT Assets

Storage systems

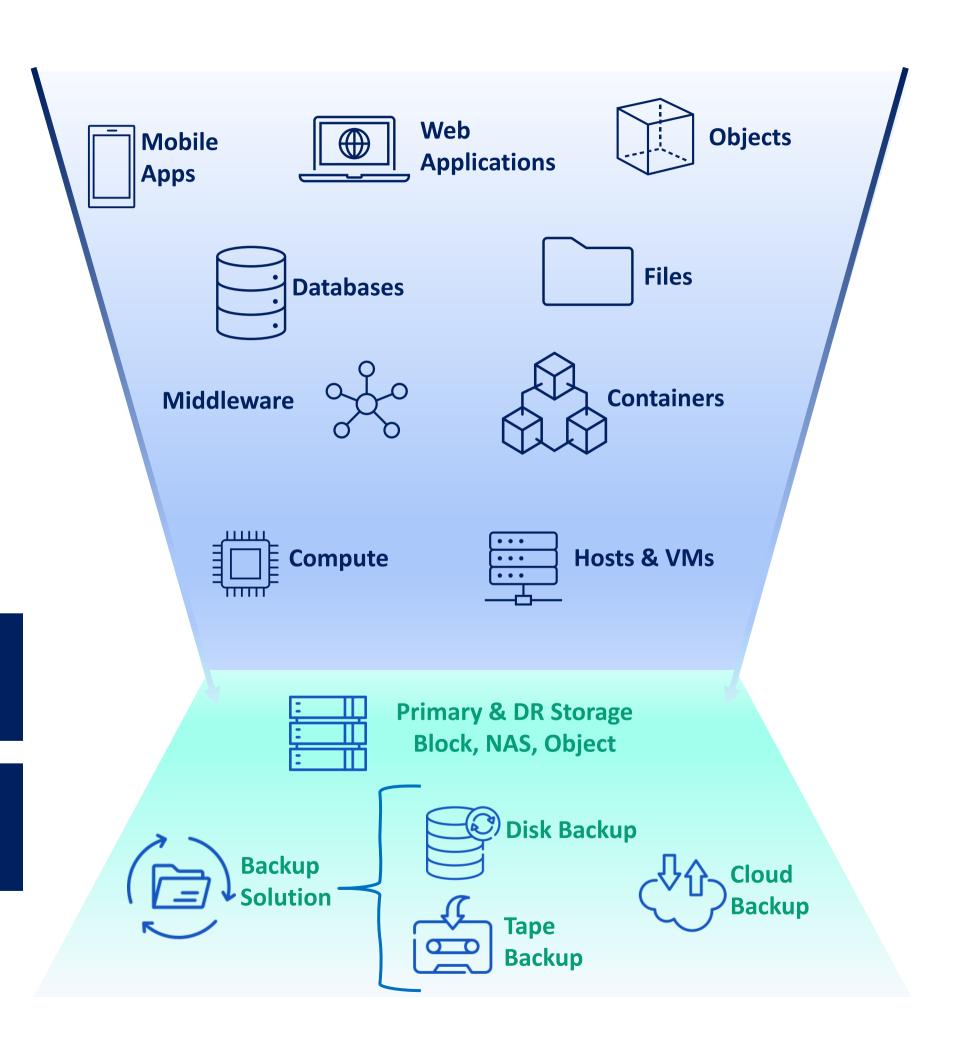
- Store <u>nearly all</u> **information assets**
- Store **data copies** for rapid recovery

Backup systems

• Create & store **data copies** for Cyber-Recovery and DR

Supporting critical or important functions

At the Heart of **Operational Resilience**



The State of Storage Security Report by Continuity

Over 6,300 security issues detected across hundreds of storage devices

> On average, an enterprise storage device has 15 vulnerabilities or security misconfigurations

Out of these 15 vulnerabilities and misconfigurations, **3** are high or critical risks



ST

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THE GAP

End-user devices

d symanter.

Mobile OS

DBMS

INAPERVA

Storage & Backup The Ultimate Line of Defense Against Cyberattacks



Onchee

Host OS

Oudivs.

Host OS

Web Servers

End-user devices



Why StorageGuard

Perimeter defenses can no longer protect organizations' assets & data"

- NIST & MITRE, 2021 Cyber Resiliency Guide

Security Tool for Storage & Backup ICT Risk Management

"minimize the impact of ICT risk by deploying tools", DORA 2022/2554

How to meet Risk Management requirements for Storage & Backup ICT Assets?

How do you automate, validate, and enforce the Secure Configuration of your storage and backups?





Vulnerability Management and Secure Configuration for Storage & Backup Systems

Built-in risk knowledgebase of security configuration best practices

- Vendor best practices, community-driven baseline requirements
- Ransomware protection, vulnerabilities and compliance checks
- Configuration checks for Administrative Access, Authentication, Authorization, Audit Log, Data access, Services and Protocols, Isolation, ISO27001, CIS, NIST, DORA and more.

Focus on storage and backup systems

- Block, object, IP storage, storage network, data protection systems
- Storage & backup management, VSAN, NAS, SAN, File Shares and more

Custom checks

Implement your own baseline checks

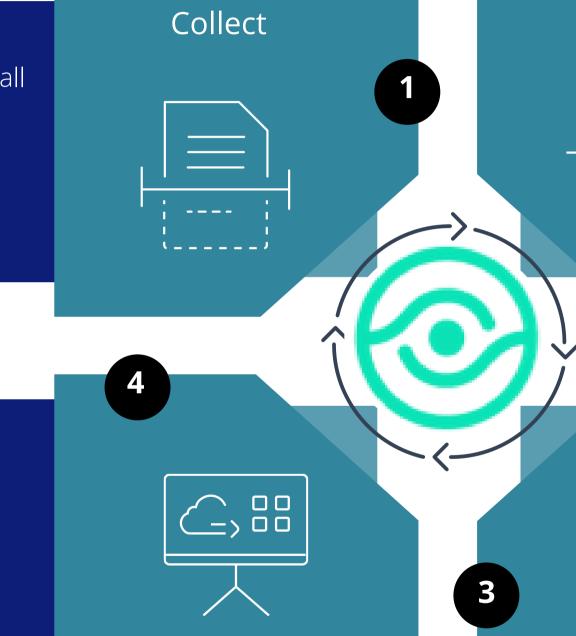


How It Works

- » Daily collection of configuration from all converged / storage / backup layers
 » Non-intrusive Read Only Credentials
- » Agentless
- » On-Prem

» Single-pane-of-glass for ensuring security of storage environment

» Automatically reports on successful resolution of issues



Visualize & track

Detect



» Analyzes configurations using a built-in risk detection engine

» Detects security misconfigurations and vulnerabilities



- » Sends actionable alerts to appropriate teams
- » Suggests remedial steps
- » Integrates with existing management systems

Prescribe

StorageGuard Risk Knowledgebase

- Library of automated configuration checks
- Over 2500 built-in checks
- **Regularly updated**
- Based on four (4) primary categories



Compliance with Vendor Best **Practices** Dell EMC, IBM, Hitachi, NIST, CIS, ISO, PCI DSS, **DORA**, Brocade, Veritas, Pure, ... HIPAA, STIG, NERC CIP, CSA CCM, UK CAF, MAS TRM, SNIA, ... Security Advisories & **Vulnerabilities Security Baselines** Security alerts, Security configuration controls adopted by vulnerabilities and organizations exposures

THE RISK KNOWLEDGEBASE CATEGORIES

 AD / LDAP, Vaulting, Radius Kerberos, MFA Login & passwd requirements 	 AUTHORIZATION Role configuration Restricted Admin access Default accounts / passwords 	 SAN / NAS 200 200 200 200 200 200 200 200 200 200
 ADMINISTRATIVE ACCESS Management systems / Apps CLI / API / SMI-S servers Automatic logoff, sessions 	 ENCRYPTION At rest / In transit Encryption level, FIPS, Hashes Admin / User access, SSL/TLS 	 OULDERABILITIES Storage CVE detection Approved versions
 AUDIT LOG Central Logging Log Retention Log Config and Immutability 	 SERVICES (PROTOCOLS) Telnet, FTP, RSH, SSH, Rlogin NFS, CIFS (SMB) SNMP, NDMP, SMTP 	 RANSOMWARE BROOTECTION Vendor / industry best practices Protection policies



VENDOR BEST PRACTICES

- Dell EMC, IBM, HP, Hitachi
- Cisco, Brocade, NetApp
- Infinidat, Amazon, more...

LEADING STANDARDS

- ISO 27001, NIST, CIS SANS
- NYDFS, SEC, FFIEC, HIPAA
- FIPS, PCI DSS and more.

AND MORE...

- Antivirus settings
- Time synchronization
- And more...

COVERAGE

- **Block Storage Arrays** 0
- Storage Switches 0
- Storage Management 0
- Storage Virtualization 0
- Data Protection Appliances 0
- **Object Storage** 0
- Storage Area Network (SAN) 0
- Server-based Storage (VSAN) 0
- Network Attached Systems (NAS)
- Backup Systems 0
- Software-Defined Storage 0
- HCI 0
- **Cloud Storage** 0

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StorageGuard Support Matrix

SAN Arrays

- Dell EMC Symmetrix VMAX PowerMAX
- Dell EMC XtremIO PowerStore
- ✤ Dell EMC VNX VNX2 Unity PowerVault ME
- ✤ NetApp FAS/AFF cDOT 7-mode filer
- ✤ Hitachi VSP/USP AMS HUS G-Series
- ✤ IBM DS* •FlashSystem IBM SVC V7000/5000 Storwize · Spectrum Virtualize · Spectrum Accelerate • N-Series
- ✤ HPE XP 3PAR* Primera* Nimble*
- ✤ Infinidat InfiniBox
- Pure Huawei*

Server-based SAN & HCI

- Dell EMC PowerFlex (ScaleIO / vxflex OS)*
- ✤ Dell EMC VxRail VMware VSAN
- ✤ Nutanix*

File Storage & NAS

- ✤ NetApp FAS/AFF cDOT 7-mode IBM N-Series
- Dell EMC Isilon PowerScale VNX/2 Unity
- ✤ Cohesity SmartFiles HNAS* HPE StoreEasy* Infinibox • Pure • Huawei* • Nasuni*

Object Storage

- ✤ Hitachi Content Platform (HCP) Scality*
- Dell EMC ECS · Cloudian HyperStore*
- ✤ IBM Object Storage* NetApp StorageGRID

Storage Network

- Brocade directors / switches · OEM versions
- Cisco MDS Nexus OEM versions
- ✤ HP VirtualConnect / FlexFabric

Storage Appliance

- ✤ IBM Spectrum Scale* Hadoop Appliance*
- ✤ Oracle ZFS* Oracle Exadata storage*

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(*) roadmap items

Storage Virtualization

- ✤ Dell EMC VPLEX
- ✤ IBM SAN Volume Controller Spectrum Virtualize
- NetApp FlexArray

Data Protection

- Dell EMC RecoverPoint Dell EMC Data Domain Dell EMC PowerProtect DD • Dell EMC Avamar • IDPA
- ✤ NetBackup · Commvault · HPE StoreOnce · Veeam · Cohesity • Rubrik • Networker*
- ✤ IBM Spectrum Protect (TSM)

Cloud Storage

- ✤ Amazon Elastic Block Storage S3 Glacier
- ✤ Azure Blob / Disk Storage*
- ✤ Nasuni Zadara*
- NetApp Cloud Volumes ONTAP

* Dell EMC IBM ΗPE Hitachi Vantara
 NetApp Infinidat • More.

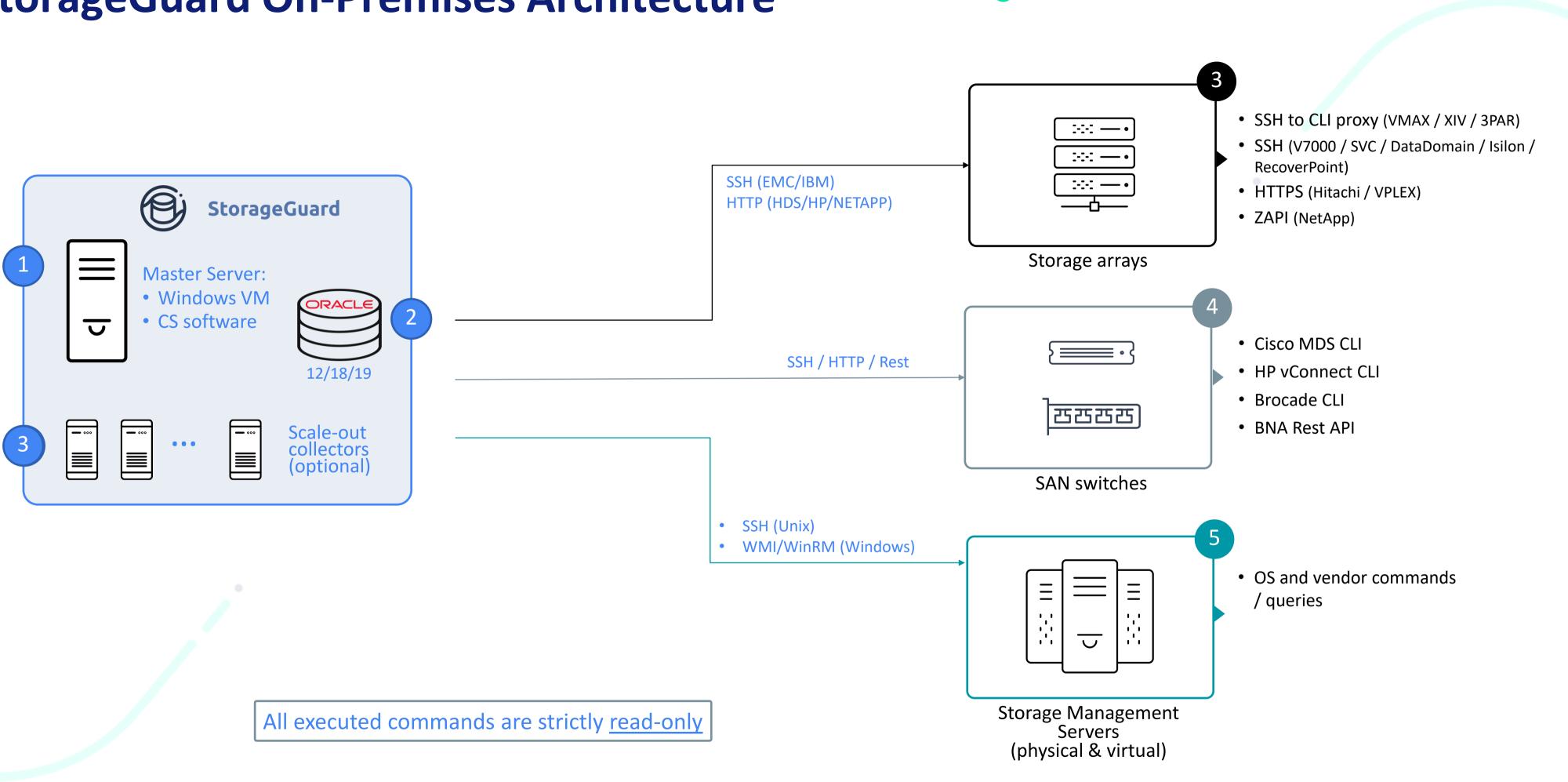
Storage

Management

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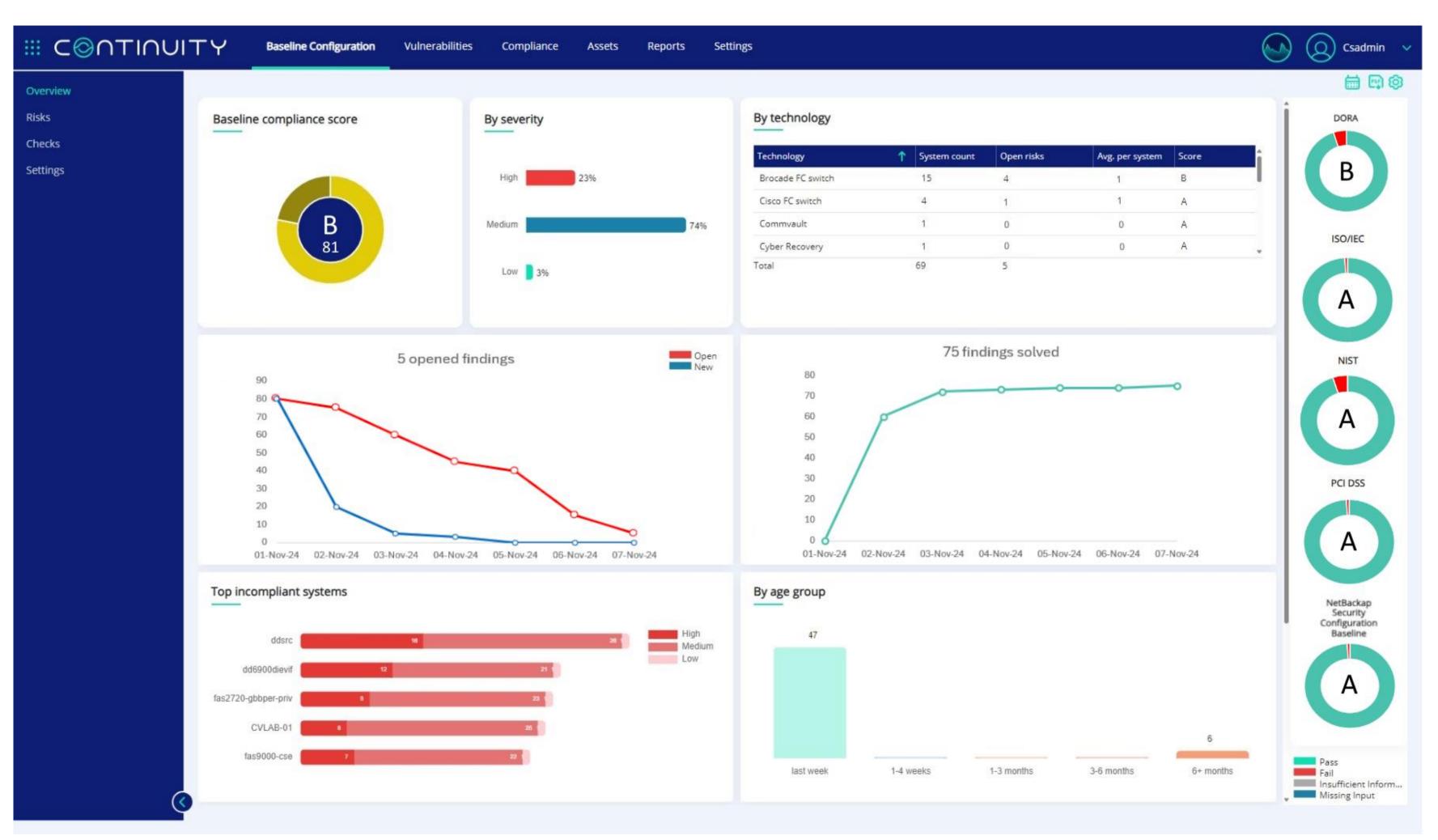
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StorageGuard On-Premises Architecture



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Dashboard di StorageGuard



Come StorageGuard presenta un rischio: Pericolosità, Descrizione, Impatto, Risoluzione

	Baseline Configuration	Vulnerabilities Compliance As	ssets Reports Settings		Benchmark 0 (C) csadmin ~
← List					~ e O O
Check name [SG-Isilon]: KD2I0MP0039: Account Isilon IsiClus: User account locko #5 Opened: Apr-25-23 Scan info: Apr-19-23 (Suc	out threshold is incorrec	ctly configured			Suppress Mark complete
Medium ∨ Urgency	Warning Severity	Easy Ease of implementation	Reopened Status	Information Security Impact	Storage Domain
	IS RHEL Benchmark 5.5.2 • Communit	y BL CSA CCM v4 IAM-02 FFIEC-CAT D3.PC.Am.B		otes	Add a note
 MITRE Attack T1110.001 MITRE Attack T1110 PCI DSS v3.2.1 Requirement 8.1.6 PCI DSS v4 Threat: Spoofing	.003 MITRE Attack T1110.004	C 27002:2013 Control 9.4.2 ISO/IEC 27002:2022 Control NIST SP800-53r5 Control AC-7 NIST SP800-171 3.1.8 Irpose OS SRG V-203698 Stride-Im SWIFT CSP 4.	NIST SP800-209 AC-SS-R15	esolution Run the following command to set the correct value for the	Type: CLI
		login attempts, the system will lock an account for a ssword or perform brute-force attacks until they are		isi auth local modify Systemlockout-threshold param1 The number of incorrect password attemp lue of zero disables account lockout.	
Customizable parameters for this check: • Max login attempts: 3			C	omment	Add comment
Impact Without account-lockout mechanisms in place, a cracking), until they achieve success and gain ac		o guess a password through manual or automated t	ools (for example, password	Labels map the finding to associated g security standards, regulator guideline	
Activity log			>	Implementation groups (IG), NIST base	

Strumento da utilizzare in sede di Audit

Vulnerabilities

Baseline Configuration

CIS Controls

Community BP

Default Baseline

ISO/IEC

CSA Cloud Controls Matrix

Search...

Compliance

Baseline Configuration

Vulnerabilities

Rep

Assets

Check name [SG-NetApp]: K0102l00P891: TLS level (cDOT) [SG-NetApp]: K0602I0M0806: SSH MAC strength (cDOT) [SG-NetApp]: K140200M0345: File share client access list (cDOT) [SG-NetApp]: K1002I0MP120: Non-default local users (cDOT) [SG-NetApp]: K0502I0MP602: NTP servers redundancy (cDOT) [SG-NetApp]: K0202I0MP295: Minimum account lockout duration (cDOT) [SG-NetApp]: K0202I0MP295: Minimum password length (cDOT) [SG-NetApp]: K0202I0MP295: Minimum password digits (cDOT) [SG-NetApp]: K0202I0MP295: Number of disallowed past passwords (cDO

[SG-NetApp]: K0502I0MP606: Approved NTP Servers (cDOT)

[SG-NetApp]: K0502I0MP206: Node Autosupport Unsecure transport (cDO

[SG-NetApp]: K0202I0MP295: Minimum password special characters (cDO

[SG-NetApp]: K0202I0MP295: Maximum password age (cDOT)

[SG-NetApp]: K0602I0M0805: SSH cipher strength (cDOT)

[SG-NetApp]: K0202I0MP295: Minimum password age (cDOT)

[SG-NetApp]: K140200M0525: Central authentication for file share access

[SG-NetApp]: K0502I0MP604: Required NTP Servers (cDOT)

[SG-NetApp]: K0202I0MP295: Minimum password uppercase characters (c

[SG-NetApp]: K0502I0MP908: Ransomware protection Policy (cDOT)

[SG-NetApp]: K0202I0MP295: Initial password change (cDOT)

[SG-NetApp]: K0202I0MP295: Account lockout threshold (cDOT)

[SG-NetApp]: K0502I0MP600: NTP servers (cDOT)

[SG-NetApp]: K1102l00P110: motd status (cDOT)

Data Domain

Solutions Enabler

StoreOnce

Unity

Xtrem IO cluster

[SG-DataDomair [SG-DataDomai [SG-DataDomain [SG-DataDomain [SG-DataDomai [SG-DataDomai [SG-DataDomain [SG-DataDomain [SG-DataDomai [SG-DataDomain [SG-DataDomain [SG-DataDomai [SG-DataDomain [SG-DataDomain [SG-DataDomai

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MY CUSTOM BASELINE [SG-DataDomain NCSC CAF [SG-DataDomai NERC CIP [SG-DataDomain PCI DSS SNIA Singapore MAS TRM Storage | Backup Vendor Best | TBTF | Fortune 500 Baseline System types Brocade CDM Cisco Commvault Data Domain ECS ESX cluster ESXi HDS Isilon Linux

> VetApp Vserver NetApp cluster

NetApp filer

Pure FlashArray

SANnav

- Isilon

System types

Policies

CIS

ISO/IEC

NIST

PCI DSS

Vendor BP

Community BP

Default Baseline

MY CUSTOM CHECKS

MY SELECTED CHECKS

ports	Settings				Benchmark	
	Compliance	Assets	Reports	Settings		

Weak SSH MAC algorithms are disabled 0 34 0 NIST SEGOLIST NIST SEGOLIST Access rights granted to authorized users/hosts only 1 4 0 NIST NIST SEGOLIST NIST SEGOLIST<						
Weak SSH MAC algorithms are disabled 0 34 0 NIST SEGOLIST NIST SEGOLIST Access rights granted to authorized users/hosts only 1 4 0 NIST NIST SEGOLIST NIST SEGOLIST<	T	Principle name 💎	P. 🕎	F. 🕎	Insu 🔻	Labels
Access rights granted to authorized users/hosts only 1 4 0 INST_NIST_SPECOLSE_N		Strong encryption used	34	0	0	NIST NIST SP800-171 NIST SP800-53 NIST SP800-53 AC
Local user accounts should not be used 31 3 0 NIST NIST SPE00-53		Weak SSH MAC algorithms are disabled	0	34	0	NIST SP800-107 NIST SP800-63B
Time source server redundancy 90 0 0 NIST NIST SPB00.53 NIST SPB00.53 ALLA INIST SPB00.53 INIST		Access rights granted to authorized users/hosts only	1	4	0	NIST SP800-171 NIST SP800-53 NIST SP800-53 AC
Account lockout duration3400NIST NIST SPEDD-S3 NIST SPEDD-S3 AC7Minimum password length is enforced3400NIST NIST SPEDD-S3 NIST SPEDD-S3 AC		Local user accounts should not be used	31	3	0	NIST NIST SP800-53 NIST SP800-53 AC-2 NIST SP800-5
Minimum password length is enforced 34 0 0 NIST NIST SP800-53 NIST SP800-58 IA-5 Use of digits in passwords 5 29 0 NIST NIST SP800-53 NIST SP800-58 IA-5 OT) Password reuse is limited 34 0 0 NIST NIST SP800-171 NIST SP800-153 NIST SP800-53 NIST		Time source server redundancy	90	0	0	NIST SP800-53 NIST SP800-53 AU-4 NIST SP800-5
Use of digits in passwords 5 29 0 NIST NIST SP800-33 NIST SP800-171 <)	Account lockout duration	34	0	0	NIST SP800-53 NIST SP800-53 AC-7
OT) Password reuse is limited 34 0 0 NIST NIST SP800-171 NIST SP800-171 NIST SP800-171 NIST SP800-171 NIST SP800-53 AU-4 NIST SP800-53 OT) Clear-text protocols are disabled 34 0 0 NIST NIST SP800-123 NIST SP800-53 AU-4 NIST SP800-53 OT) Clear-text protocols are disabled 34 0 0 NIST NIST SP800-53 NIST SP800-53 IA-5 OT) Use of special characters in passwords 5 29 0 NIST NIST SP800-53 NIST SP800-53 IA-5 Maximum password lifetime is restricted 0 34 0 NIST NIST SP800-171 NIST SP800-53 IA-5 Weak SSH/HTTPS ciphers are disabled 4 30 0 NIST NIST SP800-171 NIST SP800-53 IA-5 Minimum password lifetime is restricted 5 29 0 NIST NIST SP800-171 NIST SP800-53 IA-5 S(cDOT Central authentication is used 2 32 0 NIST NIST SP800-53 IA-5 Authorized (secure) time source servers are used 56 0 0 NIST NIST SP800-53 IA-5 (cDOT) Use of uppercase characters in passwords 5 29 0 NIST NIST SP800-53 IA-5 (cDOT) Use of uppercase characters in passwords 5 29 </td <td></td> <td>Minimum password length is enforced</td> <td>34</td> <td>0</td> <td>0</td> <td>NIST SP800-53 NIST SP800-53 IA-5 NIST SP800-53</td>		Minimum password length is enforced	34	0	0	NIST SP800-53 NIST SP800-53 IA-5 NIST SP800-53
Authorized (secure) time source servers are used 56 0 0 NIST NIST SP800-53 NIST SP800-53 AU-4 NIST SP800-53 NIST SP800-53 AU-4 OT) Clear-text protocols are disabled 34 0 0 NIST NIST SP800-53 NIST SP800-53 IA-5 OT) Use of special characters in passwords 5 29 0 NIST NIST SP800-53 NIST SP800-53 IA-5 Maximum password lifetime is restricted 0 34 0 NIST NIST SP800-53 NIST SP800-53 IA-5 Weak SSH/HTTPS ciphers are disabled 4 30 0 NIST NIST SP800-171 NIST SP800-53 NIST SP800-53 IA-5 s(cDOT Central authentication is used 5 29 0 NIST NIST SP800-171 NIST SP800-53 NIST SP800-53 AU-4 (cDOT) Use of uppercase characters in passwords 5 29 0 NIST NIST SP800-171 NIST SP800-53 NIST SP800-53 AU-4 (cDOT) Use of uppercase characters in passwords 5 29 0 NIST NIST SP800-53 NIST SP800-53 AU-4 (cDOT) Use of uppercase characters in passwords 5 29 0 NIST NIST SP800-53 NIST SP800-53 AU-4 NIST SP800-53 NI		Use of digits in passwords	5	29	0	NIST SP800-53 NIST SP800-53 IA-5
OT) Clear-text protocols are disabled 34 0 0 NIST NIST SP800-128	OT)	Password reuse is limited	34	0	0	NIST SP800-171 NIST SP800-171 3.5.8 NIST SP800
DT) Use of special characters in passwords 5 29 0 NIST NIST SP800-53 NIST SP800-53 INIST SP800-		Authorized (secure) time source servers are used	56	0	0	NIST SP800-53 NIST SP800-53 AU-4 NIST SP800-5
Maximum password lifetime is restricted 0 34 0 NIST NIST SP800-53	OT)	Clear-text protocols are disabled	34	0	0	NIST SP800-123 NIST SP800-171 NIST SP800-53
Weak SSH/HTTPS ciphers are disabled 4 30 0 NIST NIST NIST SP800-171 NIST SP800-1	OT)	Use of special characters in passwords	5	29	0	NIST NIST SP800-53 NIST SP800-53 IA-5
Minimum password lifetime is restricted 5 29 0 NIST_NIST_SP800-171_NIST_SP800-17		Maximum password lifetime is restricted	0	34	0	NIST SP800-53 NIST SP800-53 IA-5 NIST SP800-53
s (cDOT Central authentication is used 2 32 0 NIST NIST SP800-171 NIST SP800-53 NIST SP800		Weak SSH/HTTPS ciphers are disabled	4	30	0	NIST NIST SP800-171 NIST SP800-53 NIST SP800-53 A
Authorized (secure) time source servers are used 56 0 0 NIST_NIST_SP800-S3_NIST_SP800-S3_AU-4		Minimum password lifetime is restricted	5	29	0	NIST SP800-171 NIST SP800-171 3.5.8 NIST SP80
(cDOT) Use of uppercase characters in passwords 5 29 0 NIST_NIST_SP800-53_NIST_SP800-53_IA-5NIST_SP800-53_IA-5NIST_SP800-53_IA-5NIST_SP800-53_	s (cDOT	Central authentication is used	2	32	0	NIST SP800-171 NIST SP800-53 NIST SP800-53 A
Antivirus scanning is enabled 4 1 0 NIST_NIST_SP800-53_NIST_SP800-53_SI-3 Initial password change required 0 34 0 NIST_SP800-53_NIST_SP800-53_IA-5 Account lockout threshold 0 34 0 NIST_NIST_SP800-53_NIST_SP800-53_IA-5 Synchronization with authoritative time source is enabled 56 0 0 NIST_SP800-209_AL-SS-R2_NIST_SP800-53v5_AU-8_NIST_SP		Authorized (secure) time source servers are used	56	0	0	NIST NIST SP800-53 NIST SP800-53 AU-4 NIST SP800-5
Initial password change required 0 34 0 NIST SP800-53 NIST SP800-53 IA-5 Account lockout threshold 0 34 0 NIST NIST SP800-53 NIST SP800-53 AC-7 Synchronization with authoritative time source is enabled 56 0 0 NIST SP800-209 AL-SS-R2 NIST SP800-53v5 AU-8 NIST SP	(cDOT)	Use of uppercase characters in passwords	5	29	0	NIST SP800-53 NIST SP800-53 IA-5 NIST SP800-53
Account lockout threshold 0 34 0 NIST_NIST_SP800-53_NIST_SP800-53_AC-7 Synchronization with authoritative time source is enabled 56 0 0 NIST_SP800-209_AL-SS-R2_NIST_SP800-53v5_AU-8_NIST_SP		Antivirus scanning is enabled	4	1	0	NIST NIST SP800-53 NIST SP800-53 SI-3
Synchronization with authoritative time source is enabled 56 0 0 NIST SP800-209 AL-SS-R2 NIST SP800-53v5 AU-8 NIST SP		Initial password change required	0	34	0	NIST SP800-53 NIST SP800-53 IA-5
		Account lockout threshold	0	34	0	NIST NIST SP800-53 NIST SP800-53 AC-7
System use notification is presented 0 90 0 NIST SP800-209 AC-SS-R23 NIST SP800-53v5 AC-8 NIST		Synchronization with authoritative time source is enabled	56	0	0	NIST SP800-209 AL-SS-R2 NIST SP800-53v5 AU-8 NIST SP
		System use notification is presented	0	90	0	NIST SP800-209 AC-SS-R23 NIST SP800-53v5 AC-8 NIST

Storage/Backup Asset Inventory

C⊚∩	ΤΙΛυΙΤΥ	Baseline Configuration Vulner	abilities Compliance Assets	Reports Settings		Benchmark	0 (Q) csadmin
entory / De	vices						
arch						Reset column filters Group By: None	✓ C
:	▼ Asset type	Y Vendor	Y System type	\downarrow 🔻 System name	Y System Model	Y System Version	▼ Scan status
ston	Switch	Brocade	Brocade FC	STOFCN_B	DCX 8510-8	8.2.3a1	8
oston	Switch	Brocade	Brocade FC	STOFCN_BK	DCX 8510-8	6.2.1b	Q
oston	Switch	Brocade	Brocade FC	STOFCN_A2	DCX 8510-8	8.2.3a1	8
oston	Switch	Brocade	Brocade FC	STOFCN_A	DCX 8510-8	8.2.3a1	2
oston	Backup cluster	Rubrik	CDM	rubriklab	r6000S	7.0.1-p1-15197	2
oston	Switch	Cisco	Cisco FC	MDSI3DRIT	DS-C9250I-K9	8.4(2c)	8
oston	Switch	Cisco	Cisco FC	MDSE07-NMMEC-B12-CH	DS-C9706	8.4(2b)	8
oston	Switch	Cisco	Cisco FC	MDSILB1MZ2K3	DS-C9706	8.4(2b)	8
loston	Switch	Cisco	Cisco FC	MDSI5DRODL	DS-C9250I-K9	8.4(2c)	2
oston	Switch	Cisco	Cisco FC	MDSE71-NMMON-TF03-CM	DS-C91485-K9	8.4(2c)	2
oston	Switch	Cisco	Cisco FC	MDSQ-NMMON-IE09-GJ	DS-C9710	8.4(2b)	2
oston	Switch	Cisco	Cisco FC	MDSDRR23-NMC-A04-SI	DS-C9250I-K9	8.4(2c)	2
oston	Switch	Cisco	Cisco FC	MDSDR43-NMMEC-A4-I	DS-C9250I-K9	8.4(2c)	2
oston	Backup cluster	Commvault	Commvault	HyperV01tst	N/A	11.26.49	2
loston	Backup client	Commvault	Commvault client	HyperV01tst/HAC1	N/A	11	2
oston	Backup host	Commvault	Commvault media agent	HyperV01tst/DC02tst	N/A	11.26.3	2
oston	Storage array	Dell EMC	Isilon	IsiClus	X410	8.2.1.0	2
oston	Management software	Brocade	SANnav	gdcpavc0191	N/A	2.2.0.2	2
loston	Management software	Dell EMC	Solutions Enabler	symstorage	N/A	8.4.0.7	Q
oston	Management software	Dell EMC	Unisphere VMAX	uniprd1a	N/A	9.2.3.11	Q
oston	Storage array	Dell EMC	VMAX	000295701061	VMAX40K	5876.288.195	Q

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