National Cyber Security Authority (NCA) Compliance

using

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Robotics GRC

February 2024

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NCA Overview

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الهيئة الوطنية للأمن السيبراني
National Cybersecurity Authority

- The National Cybersecurity Authority (NCA) in Saudi Arabia established in 2017.
- Governmental agency responsible for enhancing and implementing cybersecurity measures to protect information systems and infrastructure
- Primary objective is to create a cyberspace that is robust, secure, and reliable, fostering growth and prosperity with trust
- The six main themes of this framework are as follows:
    a. UNIFY - emphasizes the seamless integration of all components within the realm of cybersecurity regulation.
    b. MANAGE -revolves around identifying critical infrastructures and managing cyber risks.
    c. ASSURE –revolves around assuring the protection of cyberspace.
    d. DEFEND - revolves around developing the national cyber defense mechanisms to protect against risks and threats.
    e. PARTNER - revolves around setting up the appropriate mechanisms for building partnerships and sharing information.

NCA Essential Cybersecurity Controls (ECC) Overview

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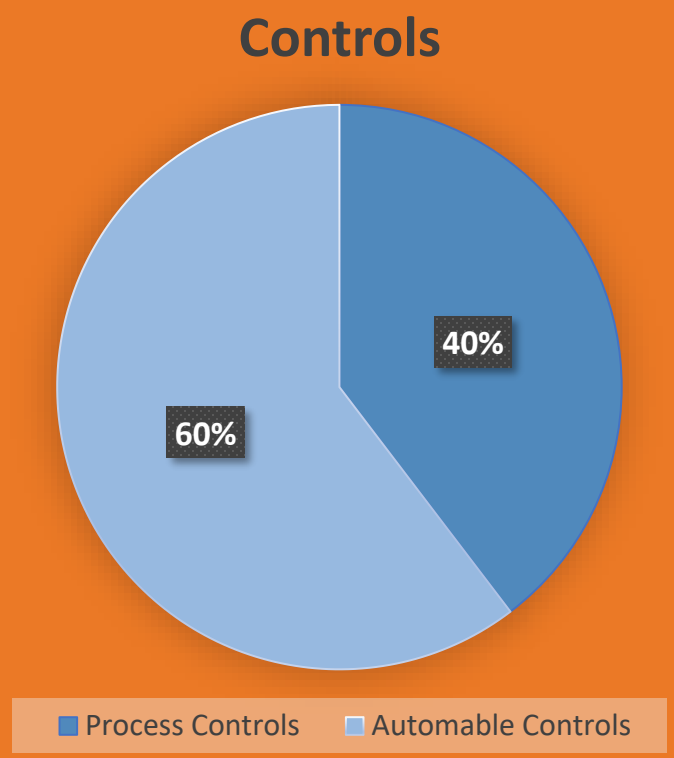
SN	Domain	Total Controls	Process Controls	Automable Controls	Integrated in Drut
1	Cyber Governance	36	21	15	~50%
2	Cyber Defense	62	15	47	
3	Cyber Security Resilience	4	3	1	
4	Third Party and Cloud Computing	8	4	4	
5	Industrial Control Systems Cybersecurity	4	1	3	
	Total	**114**	**44 (40%)**	**67 (60%)**	



1. Cyber Governance

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SN.	Sub Domain	Total Controls	Process Controls	Automable Controls
1	Cybersecurity Strategy	3	3	0
2	Cybersecurity Management	3	2	1
3	Cybersecurity Policies and Procedures	4	3	1
4	Cybersecurity Roles and Responsibilities	2	2	0
5	Cybersecurity Risk Management	4	2	2
6	Cybersecurity in Information and Technology Project Management	4	2	2
7	Compliance with Cybersecurity Standards, Laws and Regulations	2	2	0
8	Periodical Cybersecurity Review and Audit	3	2	1
9	Cybersecurity in Human Resources	6	2	4
10	Cybersecurity Awareness and Training Program	5	1	4
	Total	**36**	**21 (60%)**	**15 (40%)**

2. Cyber Defense

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SN	Sub Domain	Total Controls	Process Controls	Automable Controls	Drut. works with *indicative list
1	Asset Management	6	2	4	Symphony AI
2	Backup and Recovery Management	4	0	4	emc networker
3	Cryptography	4	1	3	Bitlocker
4	Cybersecurity Event Logs and Monitoring Management	4	1	3	Qradar
5	Cybersecurity Incident and Threat Management	4	1	3	BMC Remedy
6	Data and Information Protection	4	1	3	Symantec DLP
7	Email Protection	4	1	3	O365
8	Identity and Access Management	4	1	3	Active Directory, Arcos
9	Information System and Information Processing Facilities Protection	4	1	3	Microsoft Defender and Ivanti
10	Mobile Devices Security	4	1	3	Microsoft Itune
11	Networks Security Management	4	1	3	Cisco, Sentinel One
12	Penetration Testing	4	1	3	Nessus, QualysGuard, Netsparker
13	Physical Security	4	1	3	Matrix
14	Vulnerabilities Management	4	1	3	Nessus
15	Web Application Security	4	1	3	Salesforce
	Total	**62**	**15 (25%)**	**47 (75%)**	

how drut will help in NCA Compliance?

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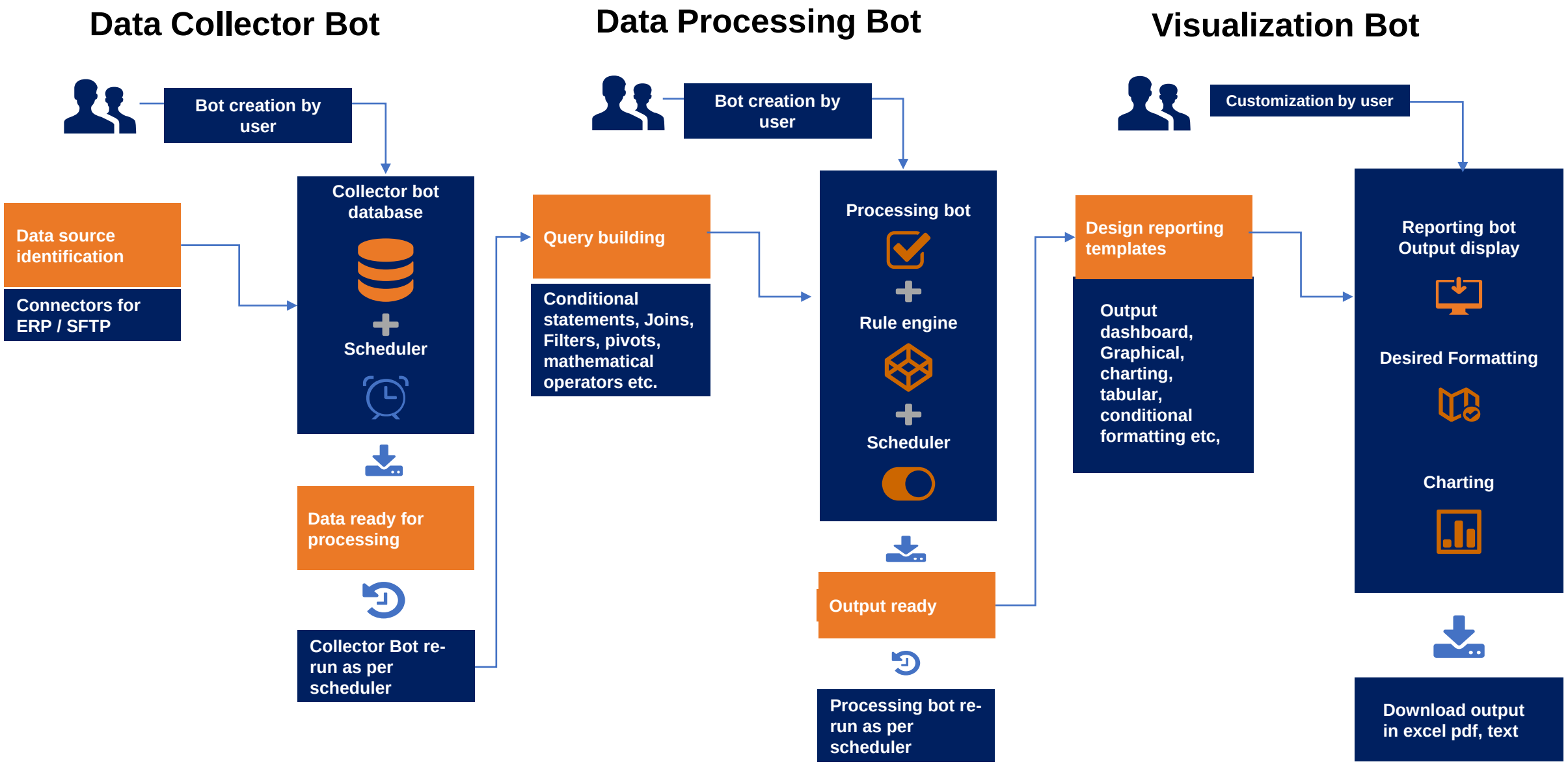

Find your control in drut.'s RCM – Risk Control Matrix

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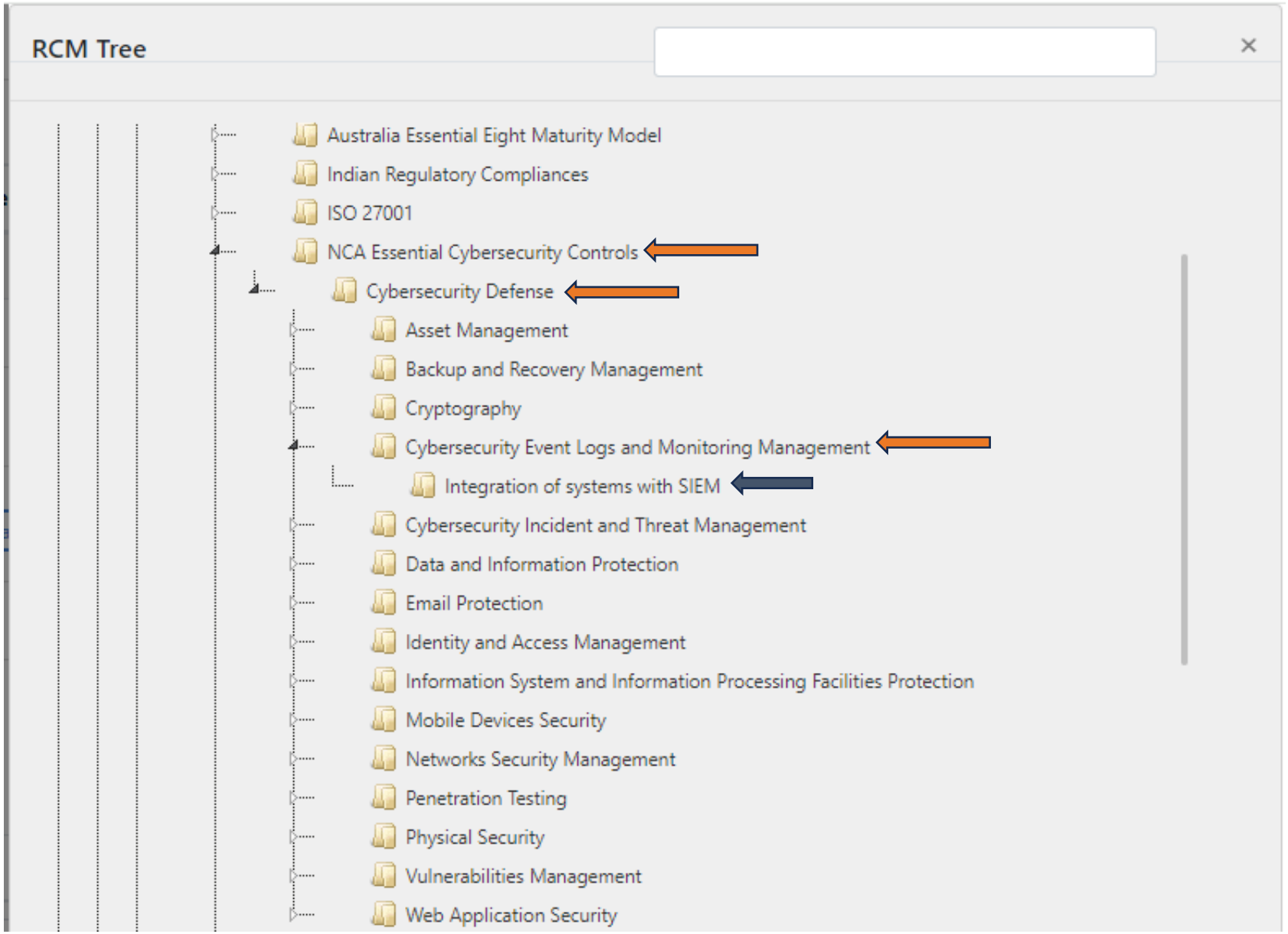

Integration of Systems with SIEM– 1. run the bot

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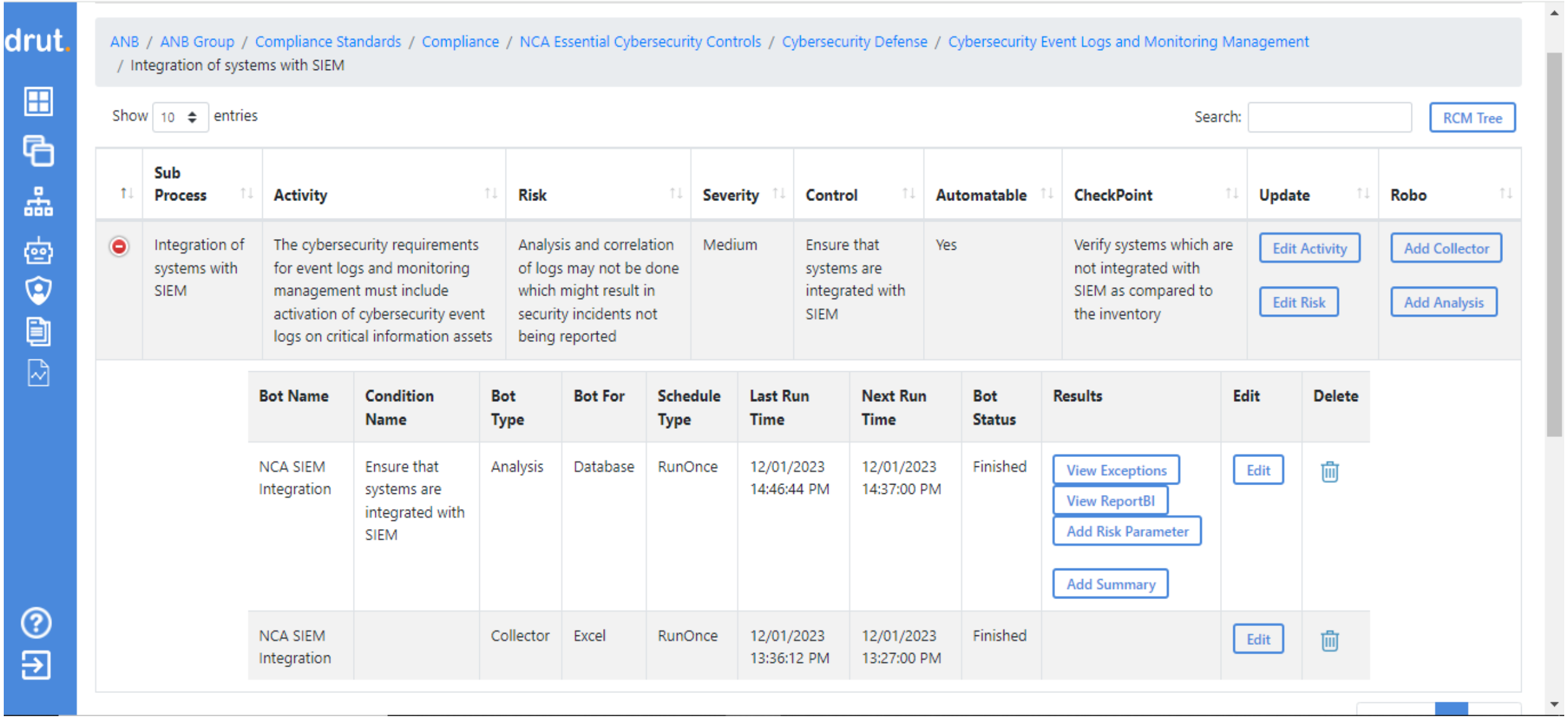

2. find the exceptions

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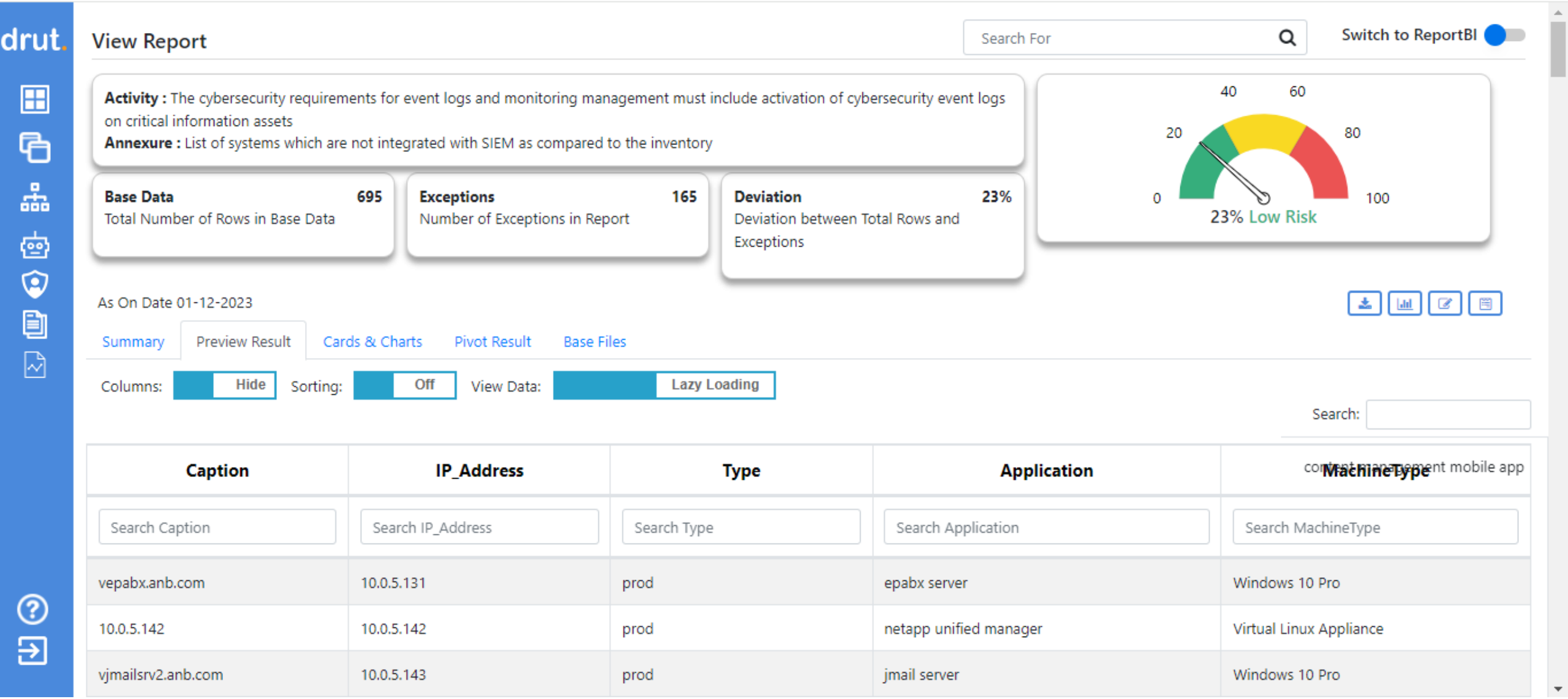

3. view your dashboard

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NON INTEGRATION OF SYSTEMS WITH SIEM

Bot Run Date 12/01/2023 2:46:44 PM

Home

Reports

Dashboards

Dashboard | Ensure that systems are integr...

As On To 01-12-2023 Download

Total Systems

Total systems	695

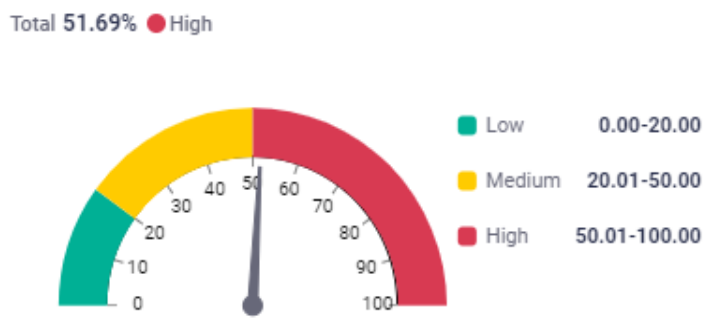
Assessment Based On Operating System

Centos	29.02 %
Windows 2016 Server	41.49 %
Windows 10 Pro	85.23 %

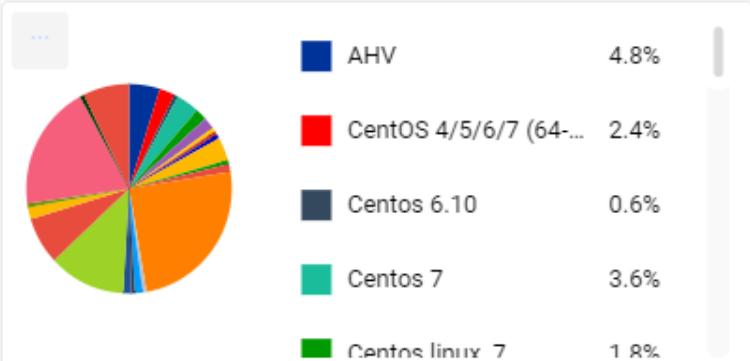
Weighted Risk Parameter

Centos	9.87 %
Windows 2016 Server	13.69 %
Windows 10 Pro	28.13 %

Risk Meter



Machine Type Wise Exceptions



Another sample from drut's RCM – Risk Control Matrix

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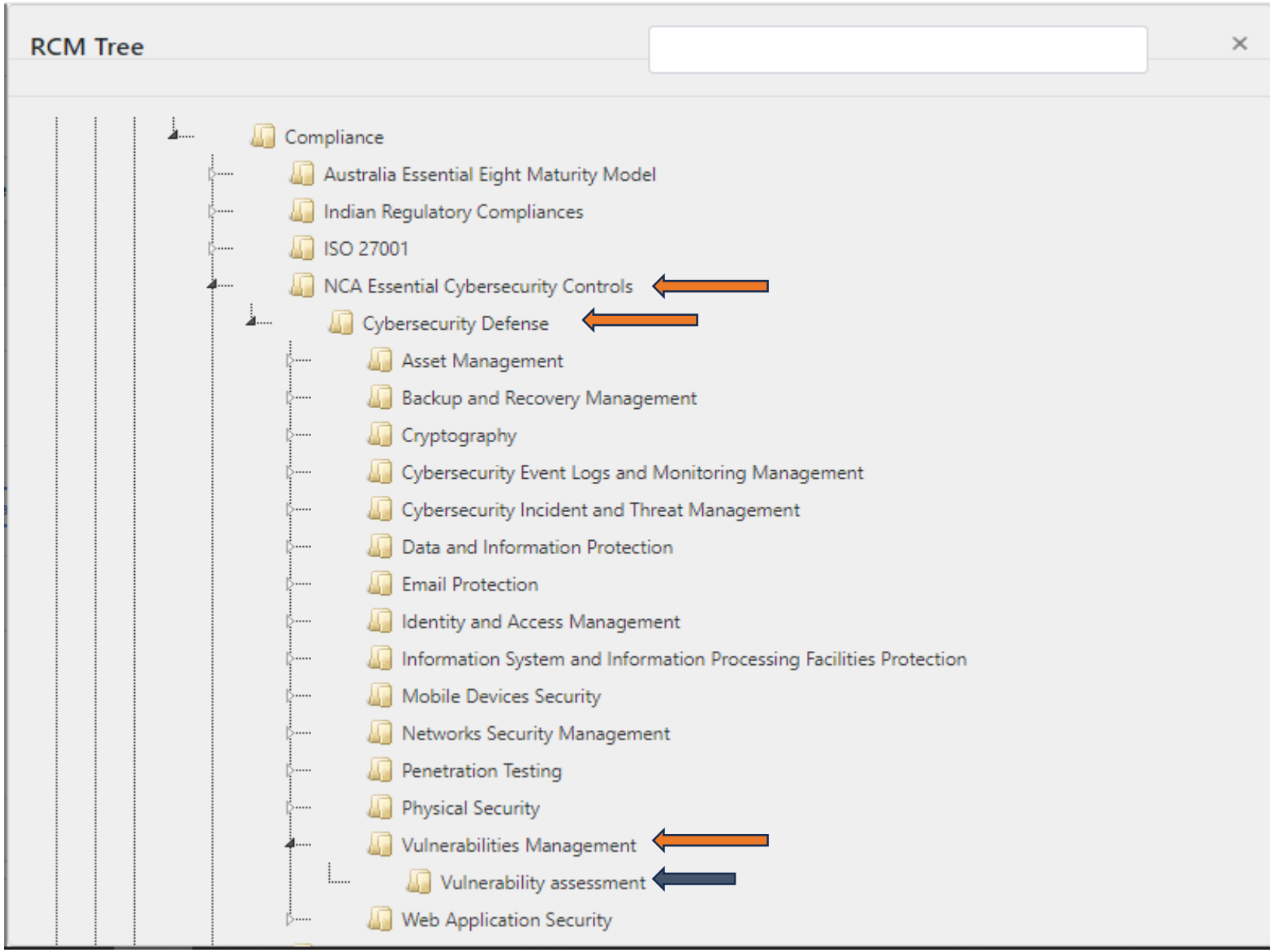

Vulnerability Assessment - 1.run the bot

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ANB / ANB Group / Compliance Standards / Compliance / NCA Essential Cybersecurity Controls / Cybersecurity Defense / Vulnerabilities Management / Vulnerability assessment

Show 10 entries

Search:

RCM Tree

	Sub Process	Activity	Risk	Severity	Control	Automatable	CheckPoint	Update	Robo
⊖	Vulnerability assessment	The cybersecurity requirements for technical vulnerabilities management must include vulnerabilities remediation based on classification and associated risk levels	Known vulnerabilities may not be identified and addressed which may lead to exploitation of such vulnerabilities to launch attacks	Medium	Ensure low risk vulnerabilities are fixed within 90 days medium risk vulnerabilities fixed within 60 days critical risk vulnerabities fixed within 7 days	Yes	Verfiy vulnerabilities not closed as per the severity levels wise timelines	Edit Activity Edit Risk	Add Collector Add Analysis

Bot Name	Condition Name	Bot Type	Bot For	Schedule Type	Last Run Time	Next Run Time	Bot Status	Results	Edit	Delete
NCA VA		Collector	Excel	RunOnce	12/01/2023 17:46:12 PM	12/01/2023 17:36:00 PM	Finished		Edit	
NCA Vulnerabilities closure	Verify vulnerabilities not closed as per the severity levels wise timelines	Analysis	Database	RunOnce	12/07/2023 16:58:19 PM	12/07/2023 16:45:00 PM	Finished	View Exceptions View ReportBI Add Risk Parameter Add Summary	Edit	

2. find the exceptions

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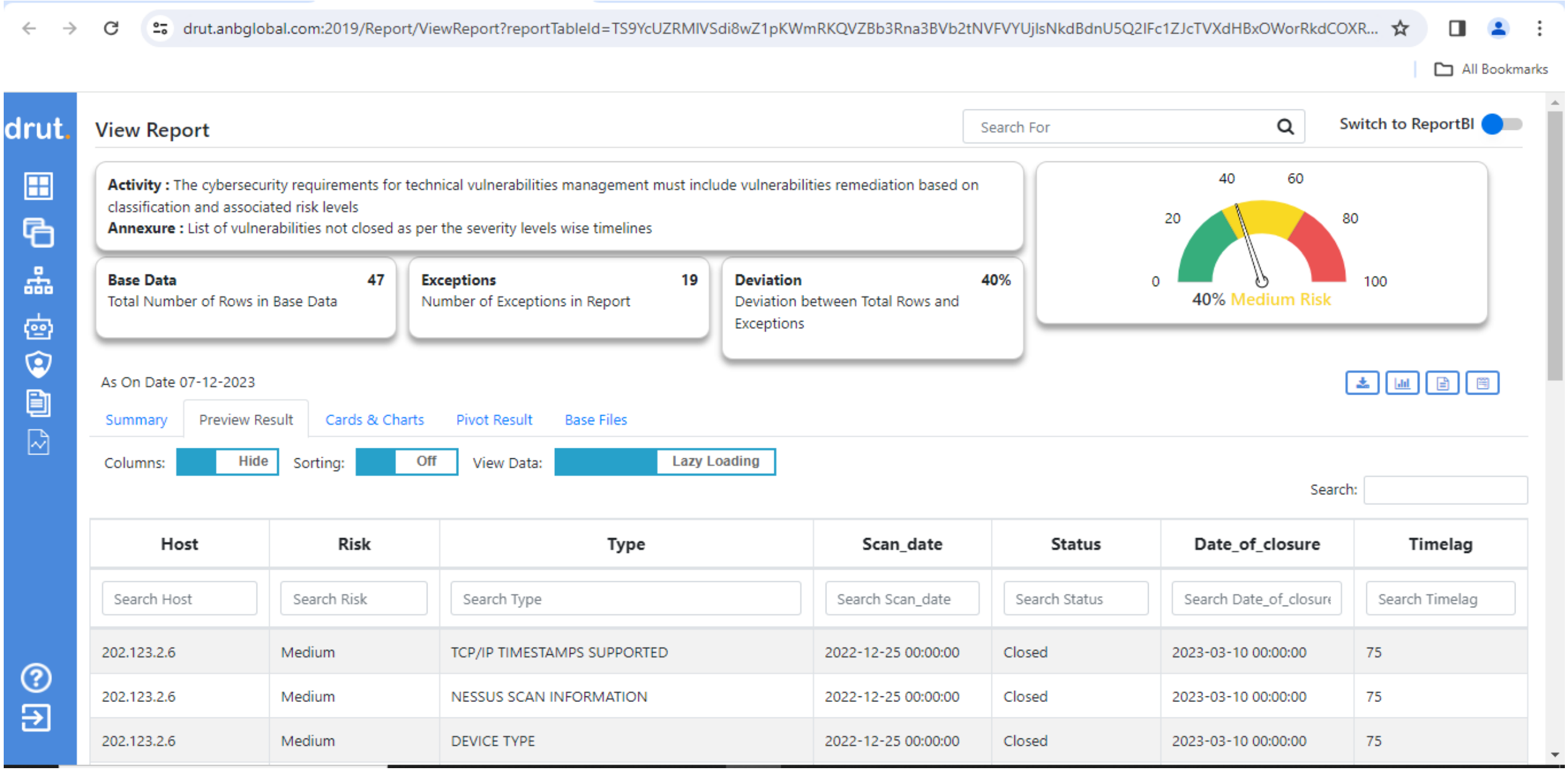

3. view your dashboard

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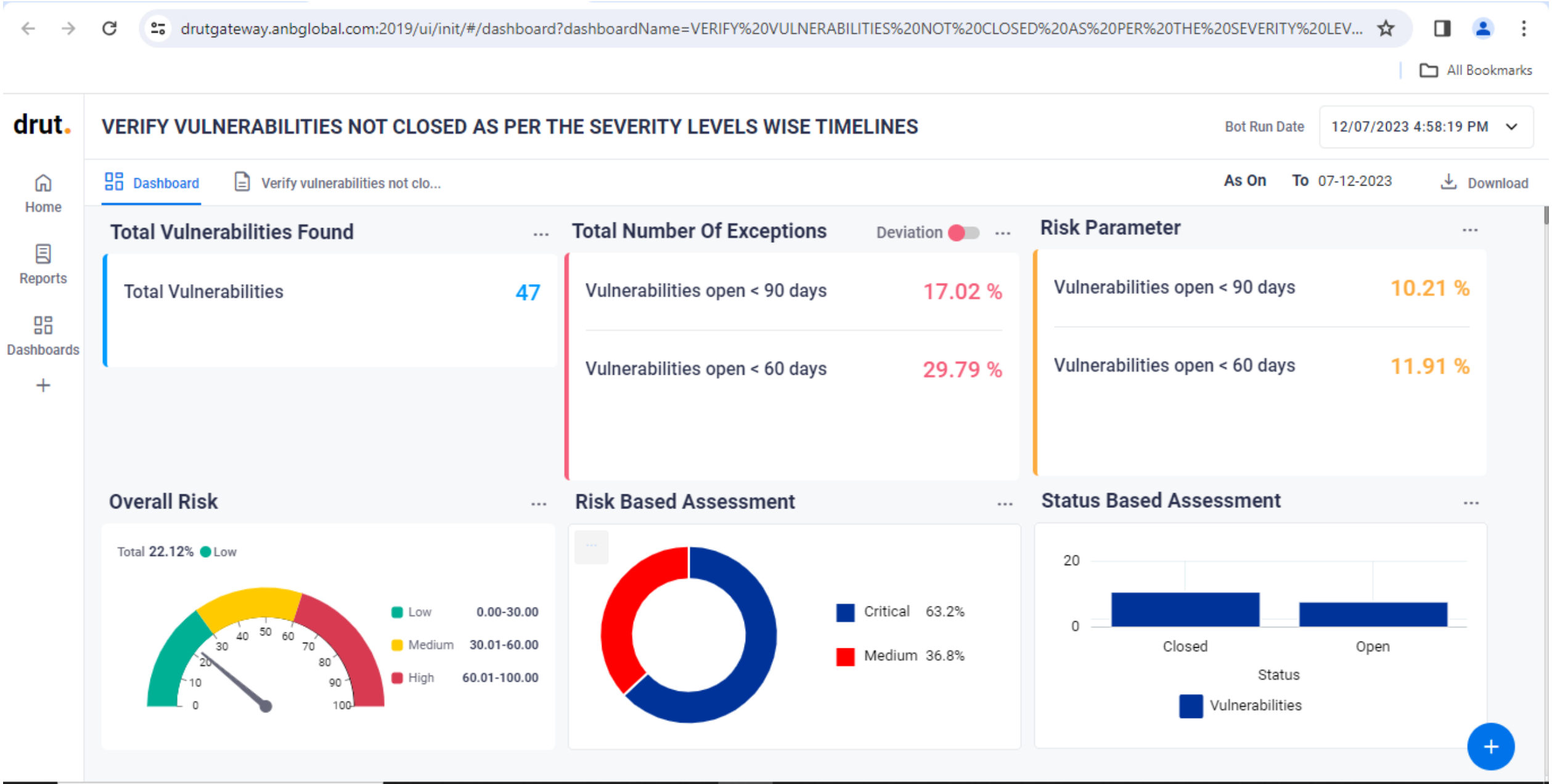

Some more NCA ECC Controls we can help with

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Domain	Activity	Risk Name	Control	Checkpoint in drut
1. Cyber Governance	Review of Cybersecurity policies and procedures	Leads to arbitrary process in absence of approved documented policy and process	Cyber related policy document are approved by Board	Review version control, approval and frequency for reviewing the Policy and procedure/process document
1. Cyber Governance	User Access Review	If users are not reviewed periodically unrequired users may be present which may lead to unauthorized access to data and systems	Ensure that privileged user access review is carried out periodically	Check if user access review is carried out periodically during the year
2. Cyber Defense	Backup Restoration	If backup is not tested one cannot ensure that data can be retrieved in the event of disaster	Ensure that backup of critical system is resorted on a periodic basis	Verify critical systems for which backup is not restored periodically
2. Cyber Defense	Incident Resolution	Untimely closure of incidents may affect systems availability leaving the systems exposed to potential exploitation by unauthorized users and damage of reputation	Ensure that incidents are closed within the agreed timelines	Verify incidents that are not closed within 6 weeks

Some more NCA ECC Controls we can help with

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Domain	Activity	Risk Name	Control	Checkpoint in drut
3. Cyber Security Resilience	Review of BCP Policies and Procedures	Review of BCP Policies and Procedures	Review of BCP Policies and Procedures	Review of BCP Policies and Procedures
4. Third Party and Cloud Computing	Third Party Risk Assessment	Risks associated with vendors might not be evaluated resulting in principles of confidentiality availability and integrity being affected	Ensure that vendor risk assessments is conducted for all critical vendors	Identify critical vendors whose risk assessment is not carried out
5. Industrial Control Systems Cybersecurity	Patching of Systems	In absence of patching identified vulnerabilities might be exploited by threats and security flaws would continue to exist	Ensure that systems scheduled for patching are be patched successfully	Verify that systems scheduled for patching are patched successfully
5. Industrial Control Systems Cybersecurity	Installation of Malware Solution	Absence of malware solution may expose the systems to malware and ransomware attacks	Ensure that malware software is installed on all systems	Check that malware solution is installed and running on all desktops, laptops and servers.

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Nirma Varma

Director – Technology and Risk

nirma.varma@drut.com

Nirmiti Chutke

Go to Market - Manager

nirmiti.chutke@drut.com

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