

## International Seminar DIGITAL RECORDS AND LEGALADMISSIBILITY



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**Cyber Security – Enhancing the National Cyber Security in Malaysia** 















# CYBER SECURITY ACT 2024

Enhancing the National Cyber Security in Malaysia

10 June 2024

Ir. Dr. Megat Zuhairy bin Megat Tajuddin Chief Executive of NACSA













#### Introduction



#### Competitiveness

In navigating the challenges posed by the current wave of technological advancement and digital transformation, it becomes imperative for Malaysia to position itself competitively on the global stage.



#### Technology and Progress

Embracing technology and digitization across all sectors is key to accelerating the nation's progress.



#### Digital Transformation

Consequently, concerted efforts from governmental bodies and stakeholders are underway to leverage digital tools and platforms, thereby enhancing service delivery and efficiency

## COUNTRY DIRECTIONS



#### **CATALYST OF DIGITAL ECONOMY**

5G, IoT, AI

By embracing cutting-edge technologies

The Malaysian Government has made substantial commitments to ICT as a cornerstone for driving the nation towards a digital economy.

## PROJECTIONS OF MALAYSIA'S DIGITAL ECONOMY



25.5%

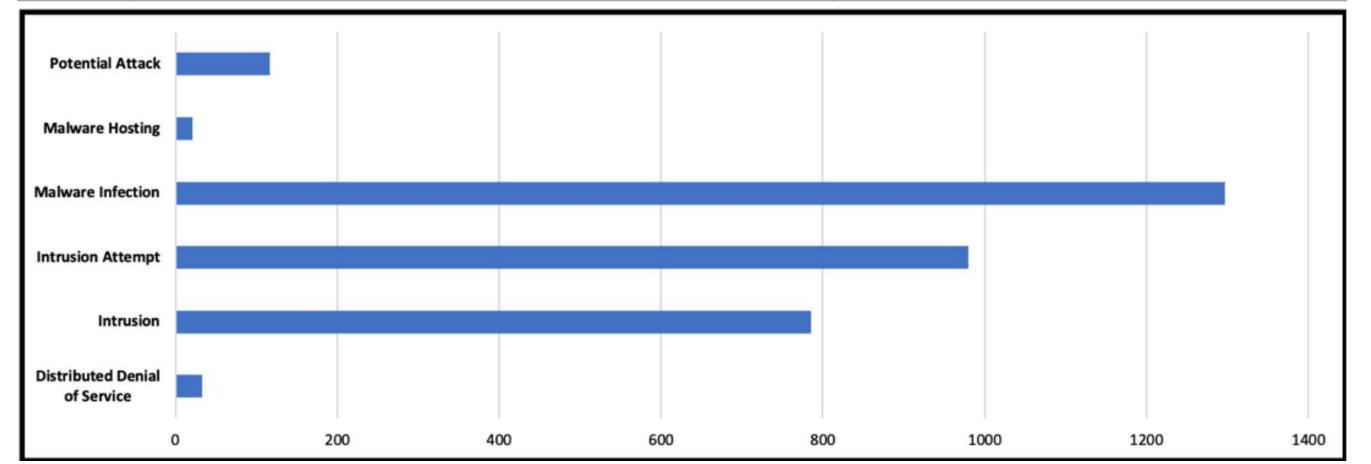
Gross Domestic Product (GDP) by
2025

This underscores the pivotal role played by the digital economy as a primary driver of Malaysia's economic growth and development.

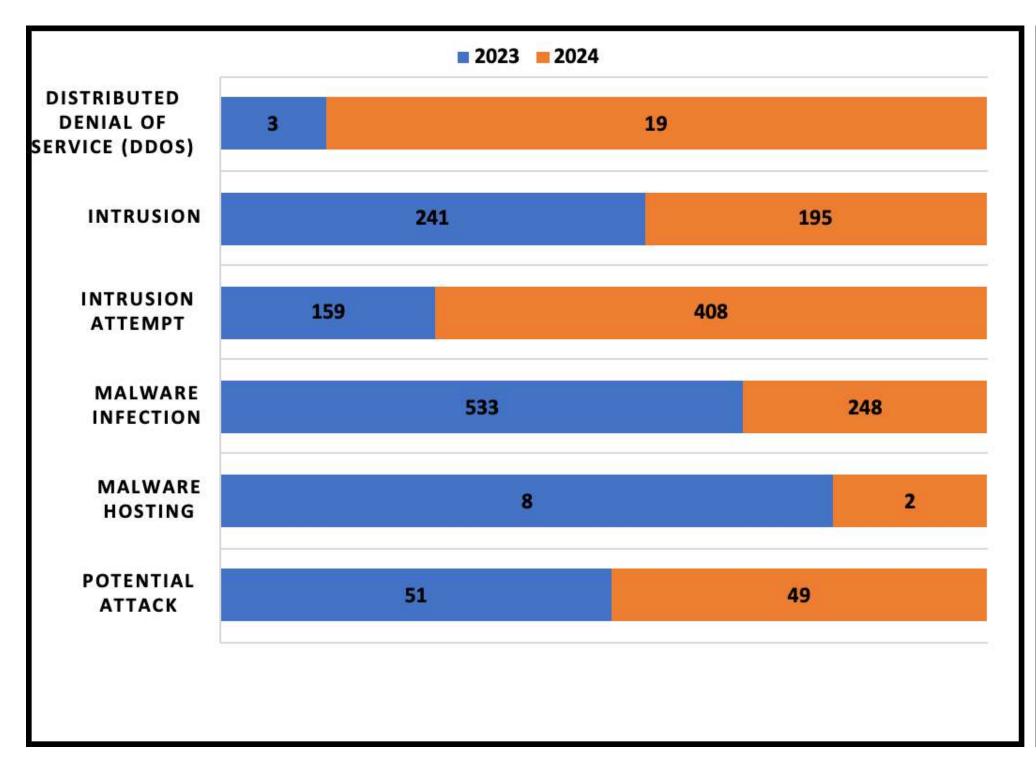


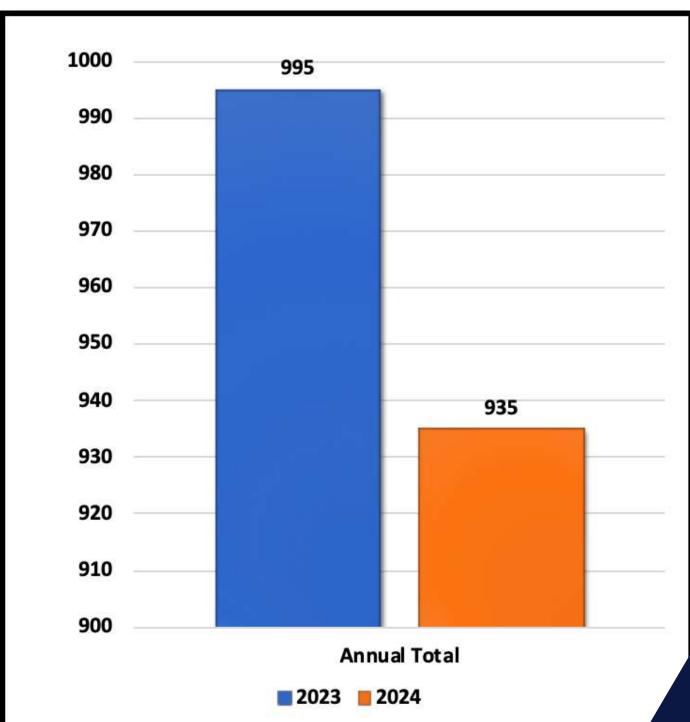
## CYBER SECURITY INCIDENT STATISTICS

| No. | Type of Incident                     | Total Incidents for The Year 2023 (January - December) |
|-----|--------------------------------------|--------------------------------------------------------|
| 1   | Distributed Denial of Service (DDOS) | 33                                                     |
| 2   | Intrusion                            | 785                                                    |
| 3   | Intrusion Attempt                    | 980                                                    |
| 4   | Malware Infection                    | 1297                                                   |
| 5   | Malware Hosting                      | 21                                                     |
| 6   | Potential Attack                     | 116                                                    |
|     | Total                                | 3,232                                                  |



# COMPARISON OF INCIDENTS BY TYPE OF INCIDENT FOR THE YEAR 2023-2024 (FIRST QUARTER)





# CYBER THREAT TREND (Q1 2024)



Increase in activity involving infostealer malware primarily driven by hacktivist groups who are exploiting leaked credentials



RANSOMWARE & APT

Notable rise in ransomware attacks with several companies falling victim through double extortion and intellectual property theft



TARGETED EXPLOITATION

Combination of outdated systems and misconfigurations have led to an increase in cybersecurity risks

### **FINDINGS**





Neglecting to implement

Multi-Factor

Authentication (MFA)

across digital services

increases the risk of

unauthorized access and

exploitation





The absence of cybersecurity awareness programs leaves the workforce ill-equipped to recognize and mitigate cyber threats effectively



OBSOLETE ICT
INFRASTRUCTURE

Modernizing cybersecurity infrastructure ensures that systems are equipped to withstand evolving threats, safeguarding sensitive information



# REGIONAL CYBER CRISIS CASE

June 17: Attempt to deactivate Windows Defender detected

June 20: Ransomware attack on PDN, services disrupted

June 21: Government confirms attack, \$8 million ransom

June 22: Migration of immigration data to AWS begins

June 24: Normal operations resume for Immigration Services

June 26: Brain Cipher establishes a new leak portal

June 27: Gradual recovery of PDN

June 29: Public apology by Communications Minister

July 1: Forensic investigation reveals security weaknesses

July 2: Brain Cipher announces free decryption keys

#### **LESSON LEARNED**



Clear Crisis Communication Plan



Regular Backups and Testing

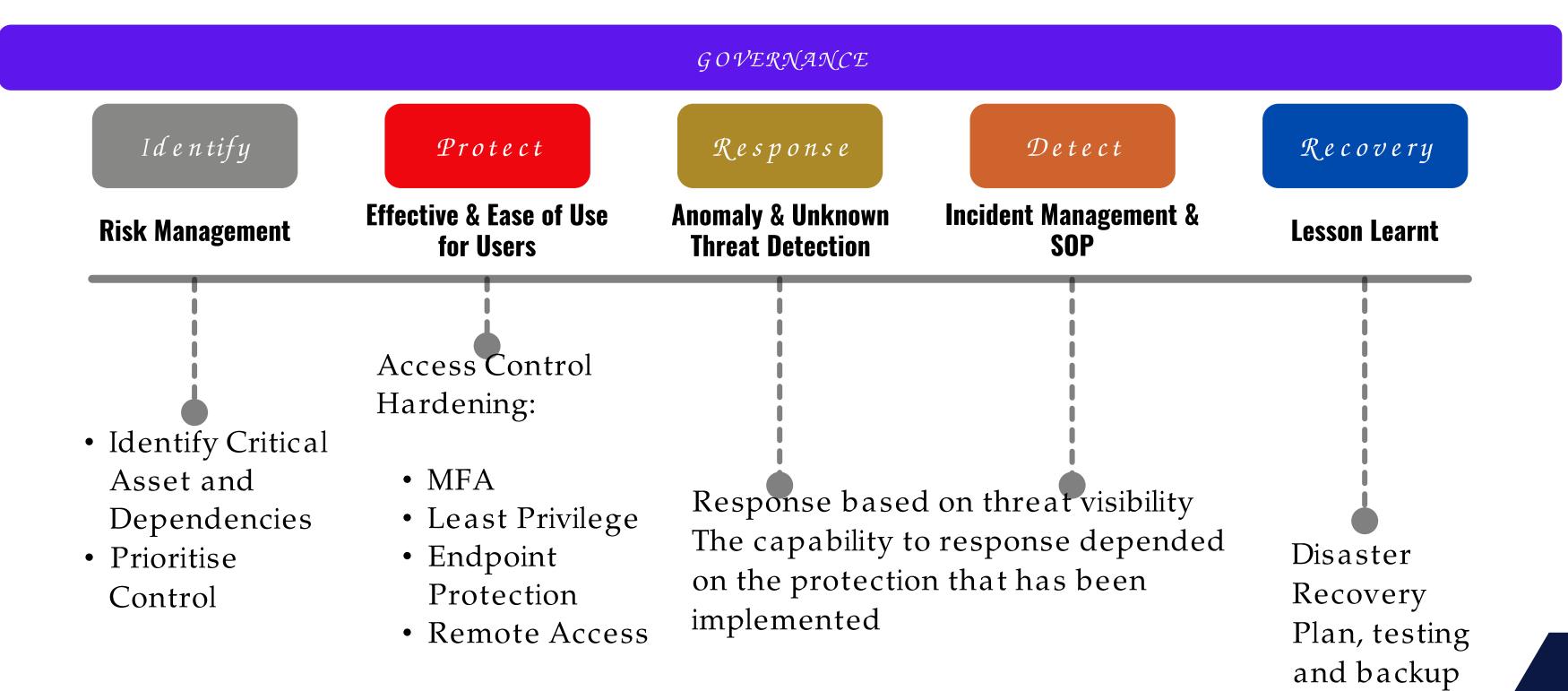


Regular Security Audits

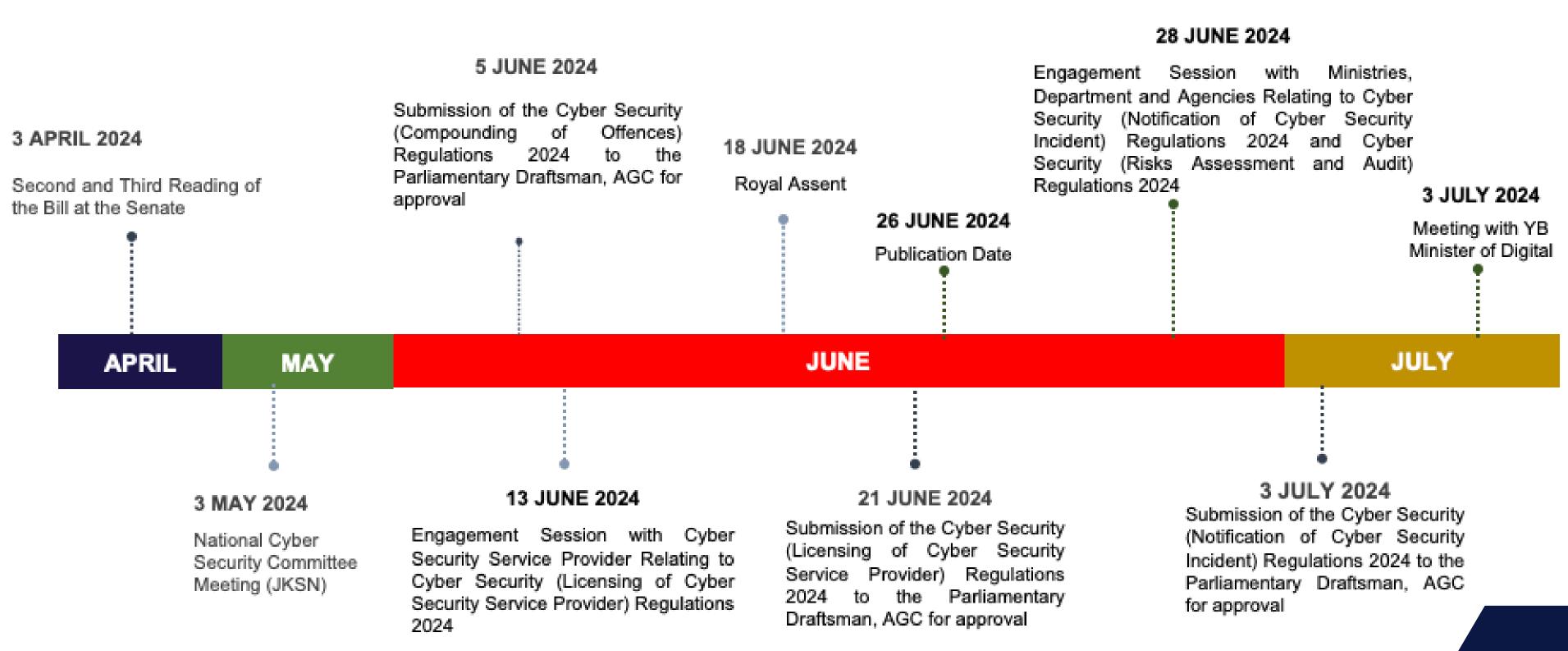


Strengthen Password

# INITIATIVE TO INCREASE NATIONAL CYBER SECURITY BASELINE



## CYBER SECURITY ACT 2024 [ACT 854] CRITICAL MILESTONE



# CYBER SECURITY ACT 2024 [ACT 854]



- Published on 26 June 2024

  Royal assent by the YDPA on 18 June 2024 and proceed to be gazetted on 26 June 2024
- Not Yet in Force

  The four (4) regulations under the Act need to be gazetted too before it can be in force



## THE 9 SECTIONS OF CYBER SECURITY ACT

#### **SECTION I**

PRELIMINARY

#### **SECTION II**

NATIONAL CYBER SECURITY COMMITTEE

#### **SECTION III**

DUTIES AND POWERS OF CHIEF EXECUTIVE

#### **SECTION IV**

NATIONAL CRITICAL INFORMATION
INFRASTRUCTURE SECTOR LEAD AND
NATIONAL CRITICAL INFORMATION
INFRASTRUCTURE ENTITY

#### **SECTION V**

CODE OF PRACTICE

#### **SECTION VI**

CYBER SECURITY SERVICE
PROVIDERS

#### **SECTION VII**

CYBER SECURITY INCIDENT

#### **SECTION VIII**

ENFORCEMENT

#### **SECTION IX**

GENERAL

# IMPLEMENTATION OF THE CYBER SECURITY ACT 2024









REGULATION

RESOURCE

(Manpower)

RESOURCE

(Budget)

# POWER TO MAKE REGULATIONS

CYBER SECURITY
(LICENSING OF
CYBER SECURITY
SERVICE
PROVIDER)
REGULATIONS
2024

CYBER SECURITY
(COMPOUNDING
OF OFFENCES)
REGULATIONS
2024

CYBER SECURITY

(RISK

ASSESSMENT

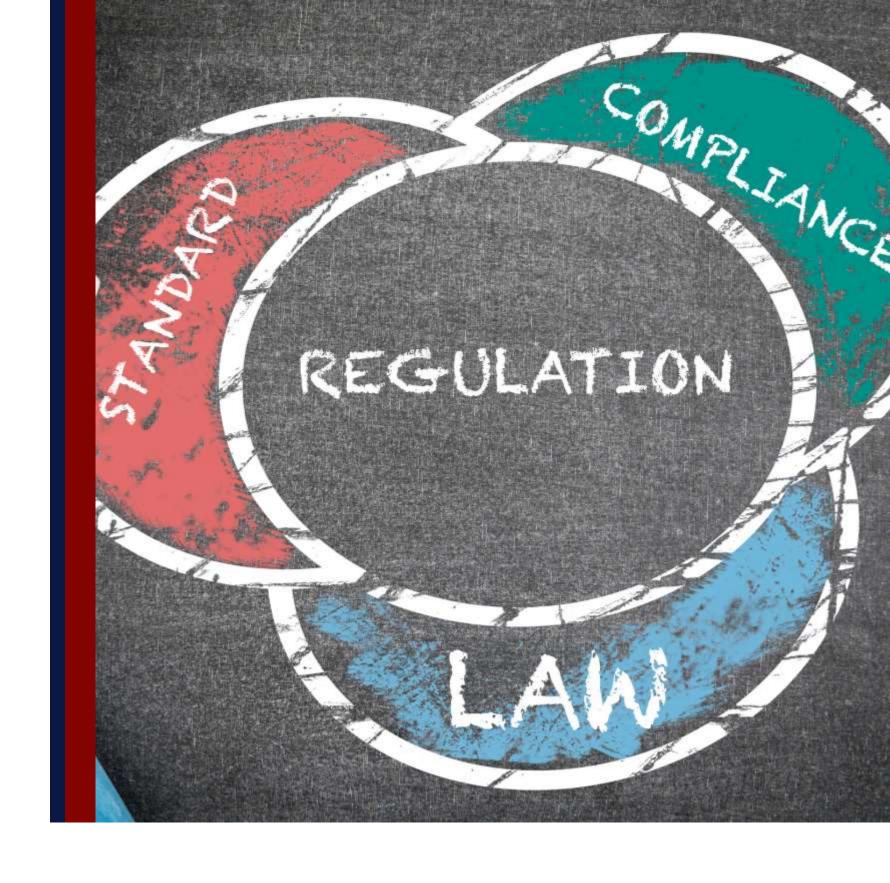
AND TO CARRY

OUT AUDIT)

REGULATIONS

2024

CYBER SECURITY
(NOTIFICATION)
OF CYBER
SECURITY
INCIDENT)
REGULATIONS
2024



ACT 854

# CYBER SECURITY (COMPOUNDING OF OFFENCES) REGULATIONS 2024



I 13 non-compounding offences





# CYBER SECURITY (NOTIFICATION OF CYBER SECURITY INCIDENT) REGULATIONS 2024

#### **Timeline of Reporting**

Within 6 hours of made known of an incident

Full report within 14 days of incident

### NOTIFICATION ON CYBER SECURITY INCIDENT

6 HOURS A cyber security incident in respect of the NCII NCII Entity notify the cyber security incident to comes to the knowledge of NCII Entity Chief Executive and NCII Sector Lead The Chief Executive receive the notification on cyber security incident. If the authorized officer finds that no cyber security incident has occurred The Chief Executive shall instruct an authorized The Chief Executive shall notify the NCII officer to investigate the cyber security incident Entity and dismiss the matter To ascertain: whether a cyber security incident If the authorized officer finds that a cyber security incident has occurred; or has occurred in the case where a cyber security incident has occurred, determining The Chief Executive shall notify and may the measures necessary to respond issue a directive to the NCII Entity to or recover from the cyber security incident and preventing such cyber security incident from occurring in

the future.

# CYBER SECURITY (LICENSING OF CYBER SECURITY SERVICE PROVIDER) REGULATIONS 2024



Tenetration Testing Service





# CYBER SECURITY (Risk Assessment and AUdit) REGULATIONS 2024

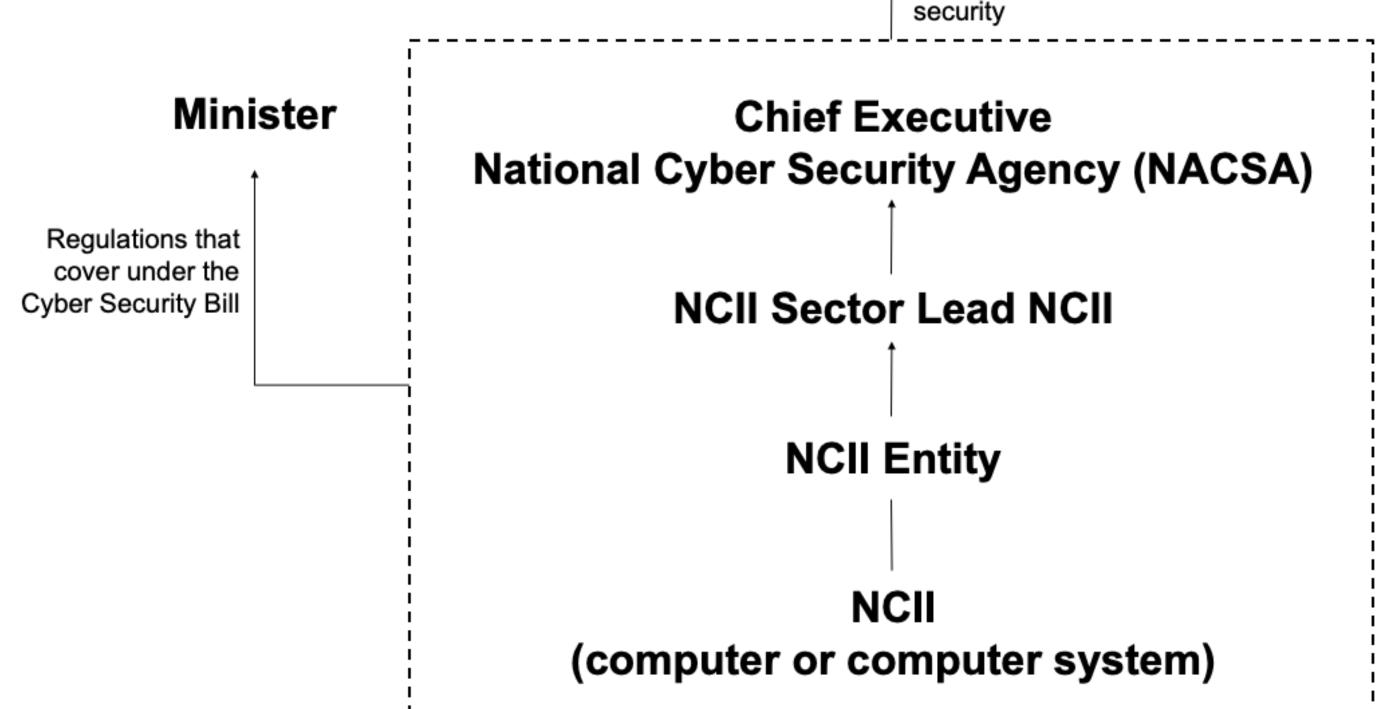
#### **Frequency of Activities**

- Conduct a cyber security risk assessement at least once a year
- Carried out audit at least once in two years; or at such higher frequency

### **GOVERNANCE STRUCTURE**

#### NATIONAL CYBER SECURITY COMMITTEE

Policies, approaches, and strategies relation to national cyber security





## Conclusion

#### **Ever-changing Landscape**

The Cyber Security Act stands as a beacon of hope amid the growing complexities of the digital landscape.

#### **Government Commitment**

It symbolises our steadfast dedication to preserving the integrity, confidentiality, and accessibility of our digital ecosystems for future generations.

#### **Secure, Safe and Trusted Cyber Space**

In this era of digital advancement, let us unite in our commitment to leverage technology for the advancement of humanity, while remaining vigilant in safeguarding it from potential threats.







# THANK YOU

Contact Us











