



PDiSA

CyberSecurity
MALAYSIA

DUNIA KESELAMATAN SIBER

Masa Kini

13 September 2023

DATO' TS. DR. HAJI AMIRUDIN ABDUL WAHAB FASc,
Ketua Pegawai Eksekutif
CyberSecurity Malaysia

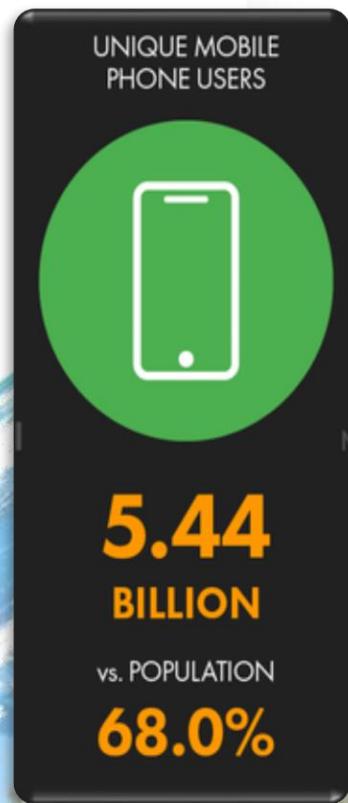
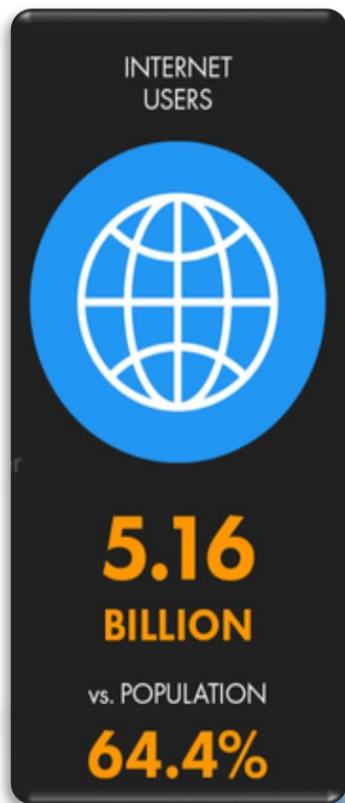


**MELINDUNGI
RUANG SIBER
ANDA**



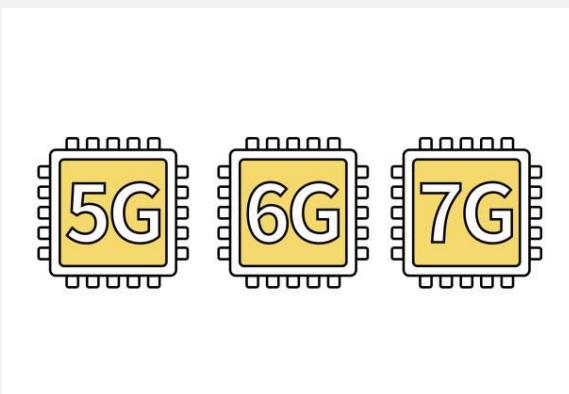
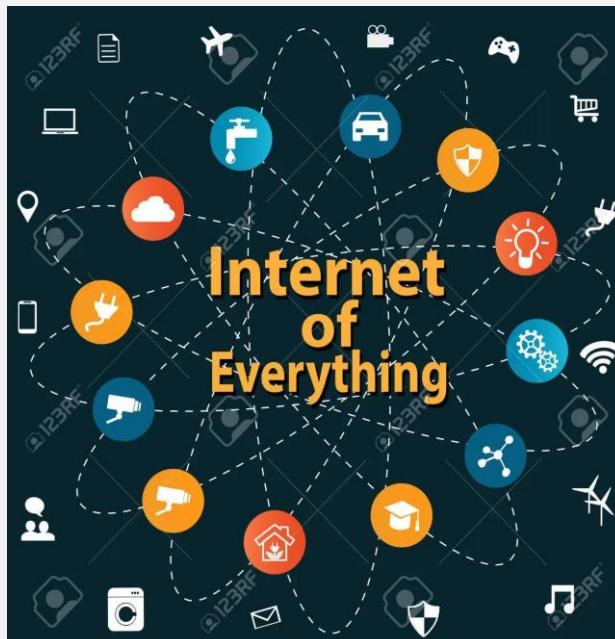
DUNIA DIGITAL KINI

KE ARAH RUANG SIBER YANG SALING BERKAIT

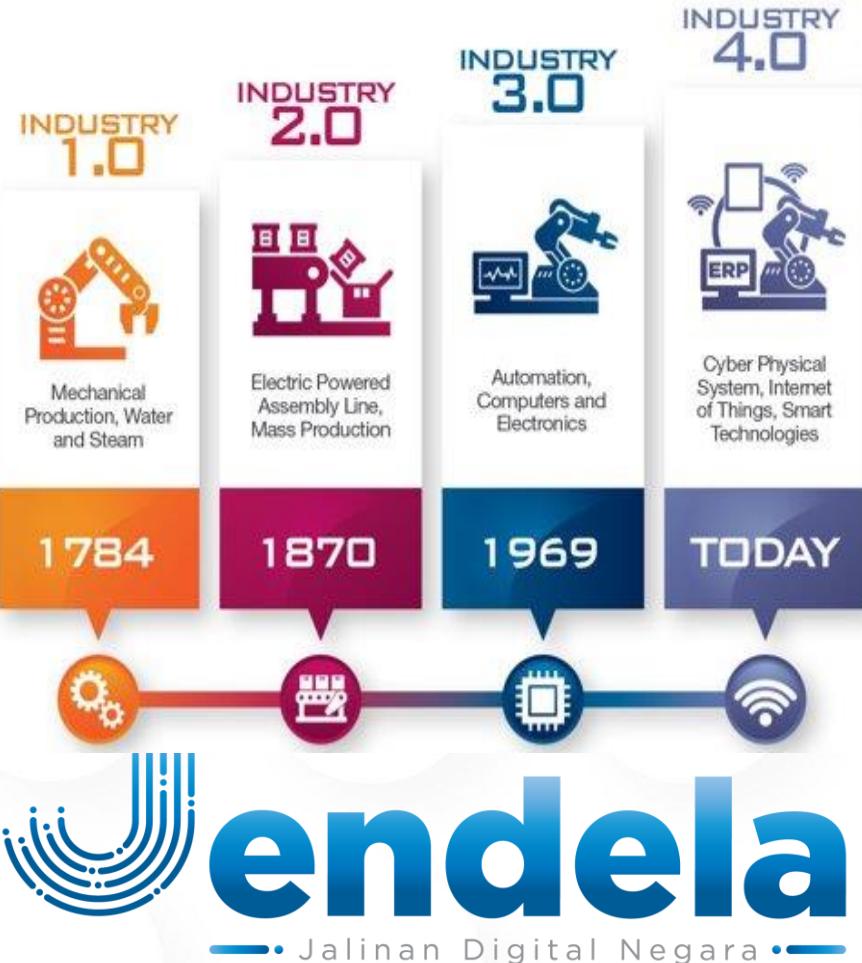


KEMUNCULAN TEKNOLOGI

Menyebabkan Lanskap Siber Semakin Rumit



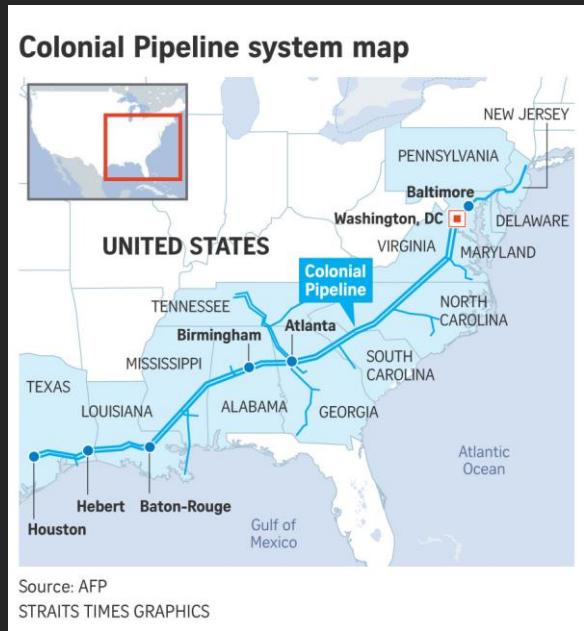
TRANSFORMASI DIGITAL



Dalam Fasa 2 (2023-2025), transformasi digital akan diutamakan.

Dalam Fasa 3 (dari 2026 hingga 2030) akan meletakkan Malaysia sebagai peneraju serantau dalam kandungan digital dan keselamatan siber. Misi MyDIGITAL adalah untuk memastikan rakyat Malaysia mendapat manfaat daripada peluang revolusi digital.

SERANGAN SIBER BERUPAYA MEMBERI KESAN FIZIKAL



Cyberattacks On Vehicles Pose A Threat To Drivers And Manufacturers



TRANSFORMASI DIGITAL TIDAK TERLEPAS DARIPADA RISIKO

- Teknologi telah mengubah cara pengguna menjalankan perniagaan, menawarkan pekerja dengan capaian berterusan kepada aplikasi dan data perniagaan yang kritikal.
- Walaupun fleksibiliti ini mudah dan mengembangkan produktiviti, ia juga telah memperkenalkan risiko, cabaran dan ancaman keselamatan siber

RISIKO GLOBAL 2023

2 years

- 1 Cost-of-living crisis
- 2 Natural disasters and extreme weather events
- 3 Geoeconomic confrontation
- 4 Failure to mitigate climate change
- 5 Erosion of social cohesion and societal polarization
- 6 Large-scale environmental damage incidents
- 7 Failure of climate change adaptation
- 8 Widespread cybercrime and cyber insecurity
- 9 Natural resource crises
- 10 Large-scale involuntary migration

10 years

- 1 Failure to mitigate climate change
- 2 Failure of climate-change adaptation
- 3 Natural disasters and extreme weather events
- 4 Biodiversity loss and ecosystem collapse
- 5 Large-scale involuntary migration
- 6 Natural resource crises
- 7 Erosion of social cohesion and societal polarization
- 8 Widespread cybercrime and cyber insecurity
- 9 Geoeconomic confrontation
- 10 Large-scale environmental damage incidents



...MAKLUMAT TERSEMBUNYI...

SURFACE WEB

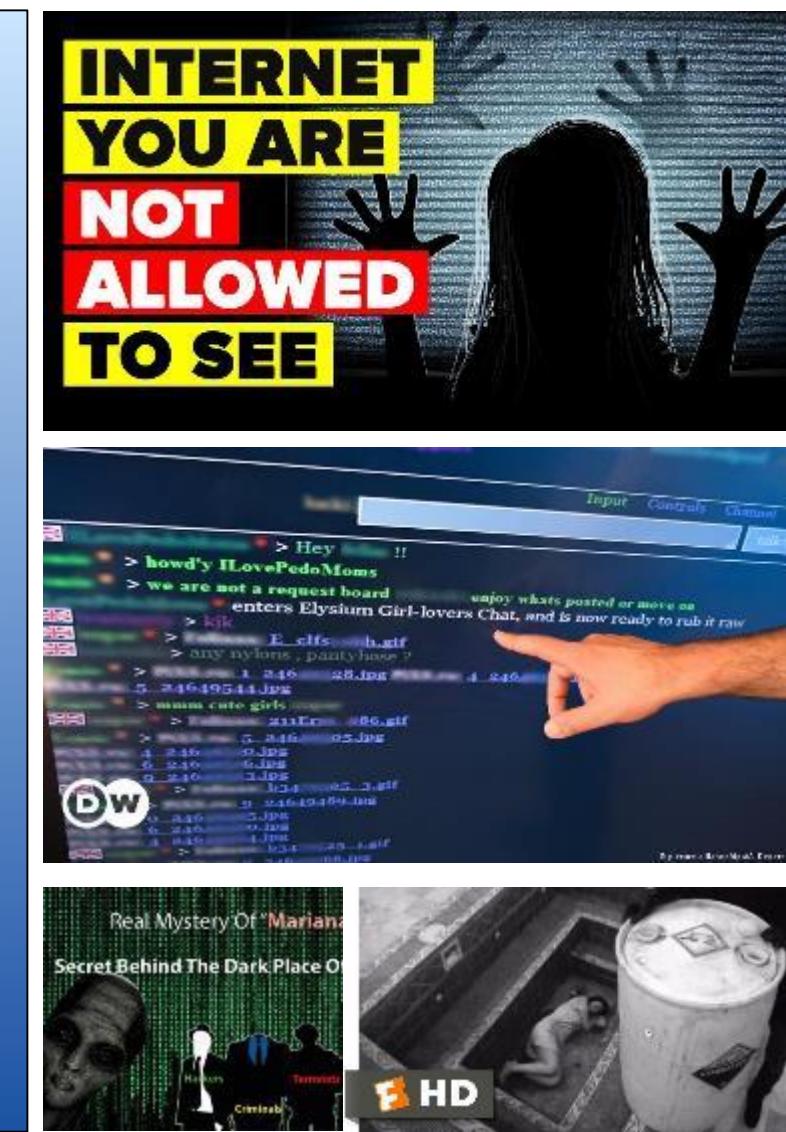
Wikipedia Bing NYTimes
Google Amazon Wired
Facebook Twitter The Guardian

DEEP WEB

Media records, subscription information, government resources, legal documents, financial records, scientific reports.

DARK WEB

Onion sites, drug trafficking, political protests, private communications.



...RISIKO TERSEMBUNYI...

KEMAJUAN TEKNOLOGI MEMBAWA CABARAN BAHARU

Tiada jaminan dalam teknologi

Muhammad Saufi Hassan
saufi@mediaprima.com.my



Pihak berkuasa Britain beri amaran chatbot AI bawa risiko siber

Ahli akademik dan penyelidik sebelum ini berulang kali mencari cara untuk menumbangkan chatbots dengan melaksanakan arahan tertentu atau menipu bagi memintas benteng pertahanan mereka.

Bernama | Ogos 30, 2023 1:32 tengahari | 2 minit bacaan

Penjenayah siber kini menyasar peranti IoT di rumah pintar - McAfee

Kaspersky gesa perniagaan guna pakai teknologi AI dalam operasi mereka

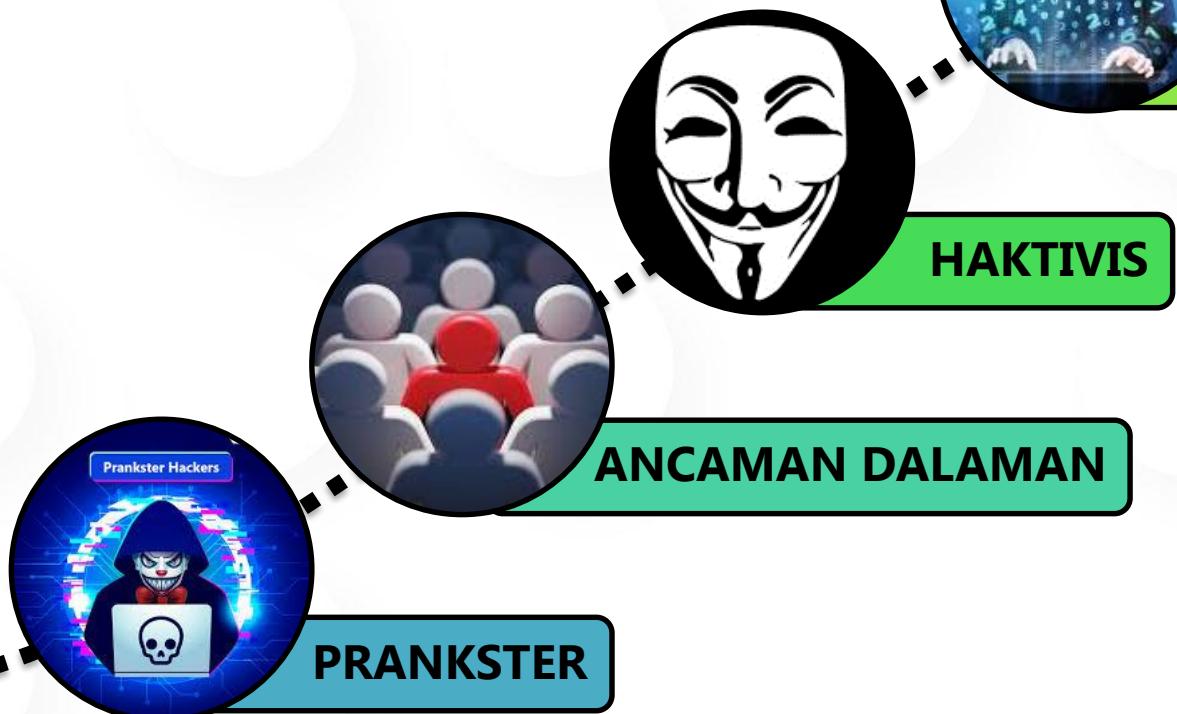
Bernama
Ogos 25, 2023 04:40 MYT

Malaysia's rapid 5G adoption highlights cyber vulnerabilities

Hacks, data leaks at businesses, government agencies raise alarm

EVOLUSI PENYERANG SIBER

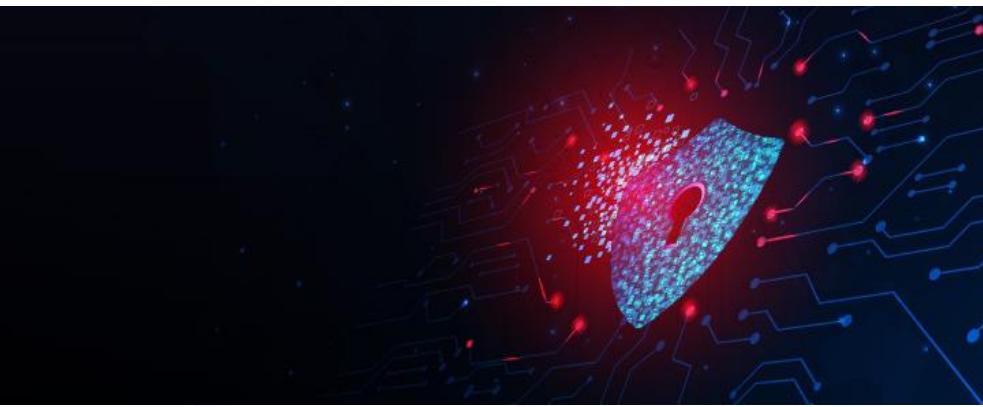
SEMAKIN BANYAK BERHUBUNG DI DALAM RUANG SIBER,
SEMAKIN BANYAK **RISIKO** DAN **ANCAMAN** SIBER AKAN BERLAKU



SERANGAN SIBER DI SELURUH DUNIA

Possible Cyberattack Disrupts The Philadelphia Inquirer

The Inquirer, citing “anomalous activity” on its computer systems, said it was unable to print its regular Sunday edition and told staff members not to work in the newsroom at least through Tuesday.



3CX's supply chain attack was caused by...another supply chain attack

Carly Page @carlypage_ / 8:00 PM GMT+8 • April 20, 2023



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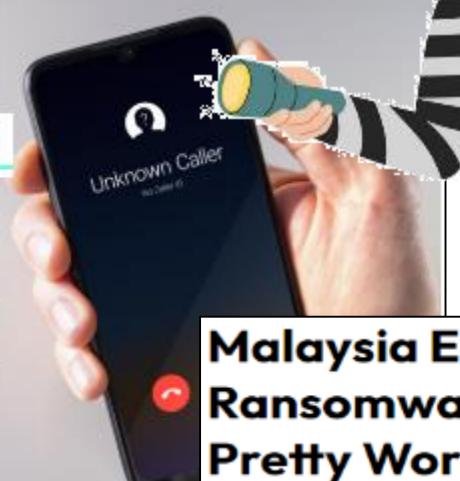


Con



SERANGAN SIBER DI MALAYSIA

Most cell phone numbers in Malaysia are leaked and sold to scammers. Are telcos to be blamed?



Malaysia Experienced 37% More Ransomware Attacks in 2022, and That's Pretty Worrying

Malaysia has been hit more times than usual.

By Dale John Wong | March 22, 2023

Varsity lecturer loses RM1.3mil to Macau scam syndicate



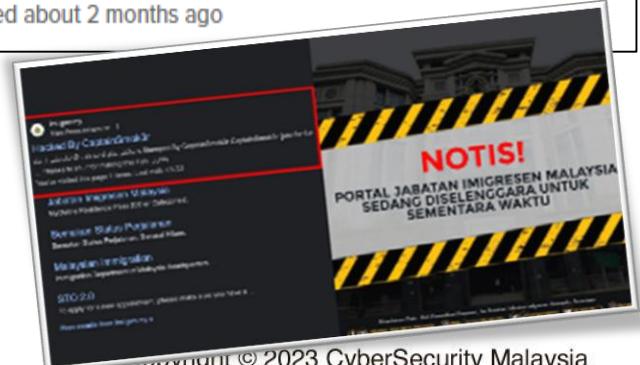
Fortinet: Malaysia recorded 84 million cyber attacks daily in fourth quarter last year

By Bernama - February 22, 2023 @ 10:16am

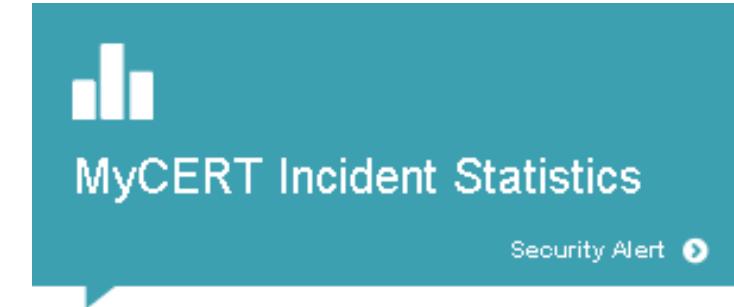
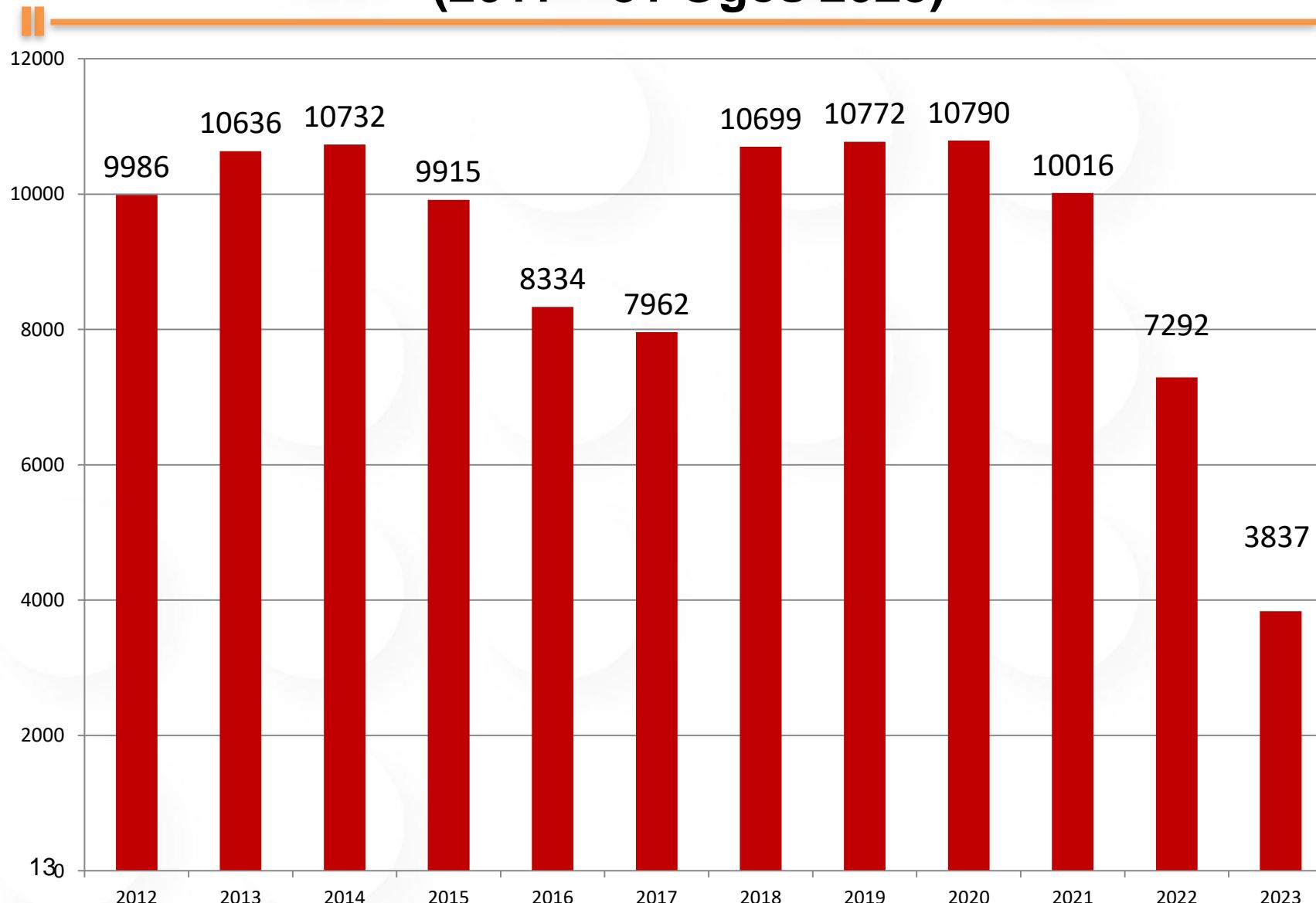
Immigration Department Confirms Site Is Down After Alleged Cyberattack By Hacker

In the website description, the hacker stated that they hacked the website "just for fun".

By Agasha Nur'aiman – 04 Apr 2023, 02:24 PM – Updated about 2 months ago



INSIDEN KESELAMATAN SIBER YANG DILAPORKAN KEPADA CYBERSECURITY MALAYSIA (2011 – 31 Ogos 2023)



EMPAT INSIDEN SIBER TERTINGGI DI MALAYSIA (CYBER999)

1. Penipuan
2. Kod Berbahaya
3. Pencerobohan
4. Berkaitan Kandungan

Jenis Insiden

1. Pencerobohan
2. Percubaan Pencerobohan
3. Denial of Service Attack (DOS)
4. Penipuan
5. Spam
6. Kandungan Berkaitan
7. Laporan Kerentanan
8. Malicious Codes

KENAPA IANYA MASIH LAGI BERLAKU?



KEUNTUNGAN
KEWANGAN



MENGAMBIL KESEMPATAN
KE ATAS KELEMAHAN MANUSIA



PENGINTIPAN SIBER



AGENDA POLITIK
/ PROPAGANDA



EKSPLORASI
KERENTANAN
PERISIAN /
PERKAKASAN

RISIKO DAN IMPAK SERANGAN SIBER



CYBERSECURITY



This Photo by Unknown author is licensed under CC BY-NC-ND.

**KESELAMATAN SIBER ADALAH
TANGGUNGJAWAB BERSAMA**

SEMUA ORANG BERTANGGUNGJAWAB

KESELAMATAN SIBER **TIDAK**
BERFUNGSI SECARA **SILO**

PIHAK PENGURUSAN PERLU
MEMIMPIN
DENGAN CONTOH,
MENINGKATKAN
KEMAMPUAN
KESELAMATAN
SIBER ORGANISASI



CYBER HYGIENE

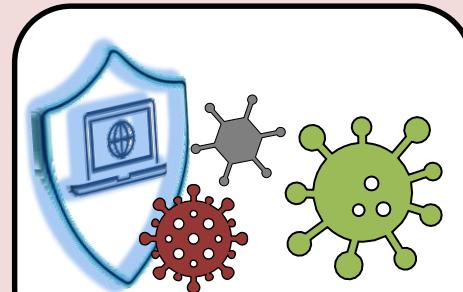
Merujuk kepada asas amalan terbaik keselamatan siber yang boleh dilakukan oleh pengamal dan pengguna keselamatan organisasi.



ASAS KESELAMATAN SIBER



KATA LALUAN YANG KOMPLEKS



PERISIAN ANTIVIRUS



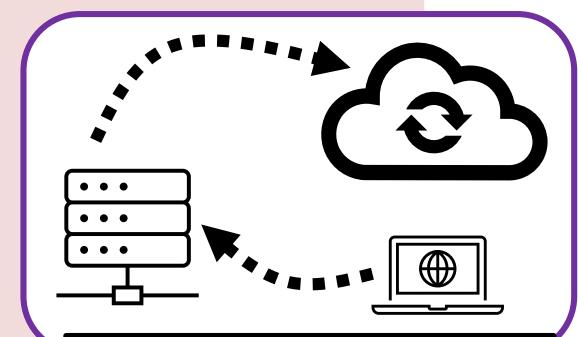
KEMASKINI SISTEM BERKALA



KEMPEN KESEDARAN
BERTERUSAN



2-FAKTOR PENGESAHAN



SANDARAN BERJADUAL

INISIATIF CYBERSECURITY MALAYSIA

||CyberSecurity||
MALAYSIA





SiberKASA

DILANCARKAN SECARA RASMI PADA
23 MAC 2021

SiberKASA merupakan inisiatif kerajaan yang bertujuan untuk membangun, memperkasa, mengukuh dan melestarikan prasarana serta ekosistem keselamatan siber negara agar sentiasa mampan, terpelihara dan berdaya tahan



INISIATIF CYBERSECURITY MALAYSIA

PENDEKATAN HOLISTIK

- Penerapan pendekatan holistik yang mengenalpasti potensi ancaman kepada organisasi dan impak kepada keselamatan negara dan kesejahteraan awam
- Membangunkan keupayaan negara untuk mempunyai daya tahan siber **yang kukuh dan mempunyai keupayaan untuk melindungi pihak berkepentingan, reputasi dan aktiviti-aktiviti yang utama**



(Program PemerKASAan Keselamatan Siber)

Objektif: Untuk membangun, memperkasa, mengukuh dan melestarikan prasarana serta ekosistem keselamatan siber negara agar sentiasa mampan, terpelihara dan berdaya tahan.

	HUMAN	PROCESS	TECHNOLOGY	
PRODUCT	<p>Covers aspects of skills, knowledge, ethics, behavior and talent</p> <p>1. Global Accredited Cybersecurity Education (ACE)Scheme 2. CyberSAFE L.I.V.E Gallery </p>	<p>Covers aspects of policy development, strategy, Standard Operating Procedure (SOP), recognition of international standards</p> <p>1. Information Security Governance, Risk & Compliance Health Check Assessment (ISGRiC) 2. ISMS Guidance Series 3. Information Security Management System (ISMS)</p>	<p>Involves technology in particular matters related to minimizing vulnerabilities, digital forensic analysis, malicious code (malware) and data</p> <p>1. USB Secure Suite 2. Crypto Random test tool 3. X- Forensics Tools 4. Coordinated Malware 5. Lebahnet </p>	
SERVICE	<p>1. CyberDrill Exercise 2. Behavioral Competency Assessment (BCA) 3. Cyber Safety Awareness for Everyone (CyberSAFE) 4. CyberSecurity Malaysia Awards, Conference & Exhibition (CSM-ACE)</p> <p>1. Business Continuity Management System (BCMS) 2. MyCyberSecurity Clinic - Data Recovery Service 3. DF Case Management System 4. Cyber Discovery 5. Mobile Incident Analysis (CyberDEF) 6. MyTrustSEAL 7. Technology Security</p> <p>1. MyCyberSecurity Clinic (MyCSC) - Data Sanitization Service 2. DF Lab Quality Management 3. Penetration Testing Service Provider (PTSP) 4. CyberSecurity Malaysia Cryptographic Evaluation Lab (MyCEL) 5. CCTV Forensic readiness 6. Commercial Incident Respond Handling /</p> <p>1. MyCyberSecurity Clinic (MyCSC) - Data Sanitization Service 2. DF Lab Quality Management 3. Penetration Testing Service Provider (PTSP) 4. CyberSecurity Malaysia Cryptographic Evaluation Lab (MyCEL) 5. CCTV Forensic readiness 6. Commercial Incident Respond Handling /</p>	PRODUCTS AND SERVICES		
	<p>1. Global Accredited Cybersecurity Education (ACE)Scheme 2. CyberSAFE L.I.V.E Gallery </p>	<p>1. Information Security Governance, Risk & Compliance Health Check Assessment (ISGRiC) 2. ISMS Guidance Series 3. Information Security Management System (ISMS)</p>	<p>1. USB Secure Suite 2. Crypto Random test tool 3. X- Forensics Tools 4. Coordinated Malware 5. Lebahnet </p>	



Product security
and ICT systems
guarantee



Teknologi

Proses



LAWS OF MALAYSIA

ACT 709
PERSONAL DATA PROTECTION ACT 2010

ISMS
Information Security Management System



SIBERKASA

PERTAHANAN BERLAPIS

RANGKA KERJA PEMBANGUNAN KAPASITI KESELAMATAN SIBER



Global Accredited Cybersecurity Education (ACE) Scheme

Global ACE Scheme

<https://www.cybereducationscheme.org>



CYBER SECURITY PROFESSIONAL DEVELOPMENT

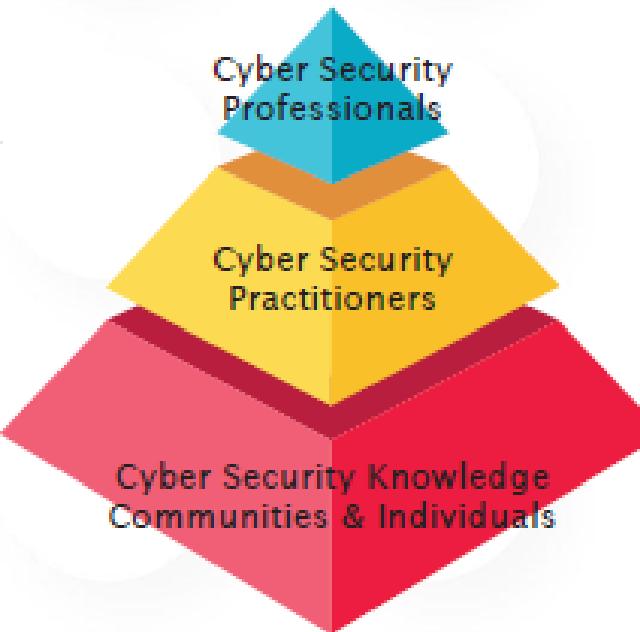
Cyberguru

<https://www.cyberguru.my>



Cybersafe

<https://www.cybersafe.my>



Building cyber security managers,
strategists and professionals

Building cyber security practitioners

- Building cyber security awareness and appreciation
- Elevating adoption and adaptation to target groups including their families and communities

OBJECTIVES

To nurture cyber security knowledge groups and/or individuals that are resilient to cyber security incidents

To nurture cyber security practitioners that are technically capable and proficient in the operation

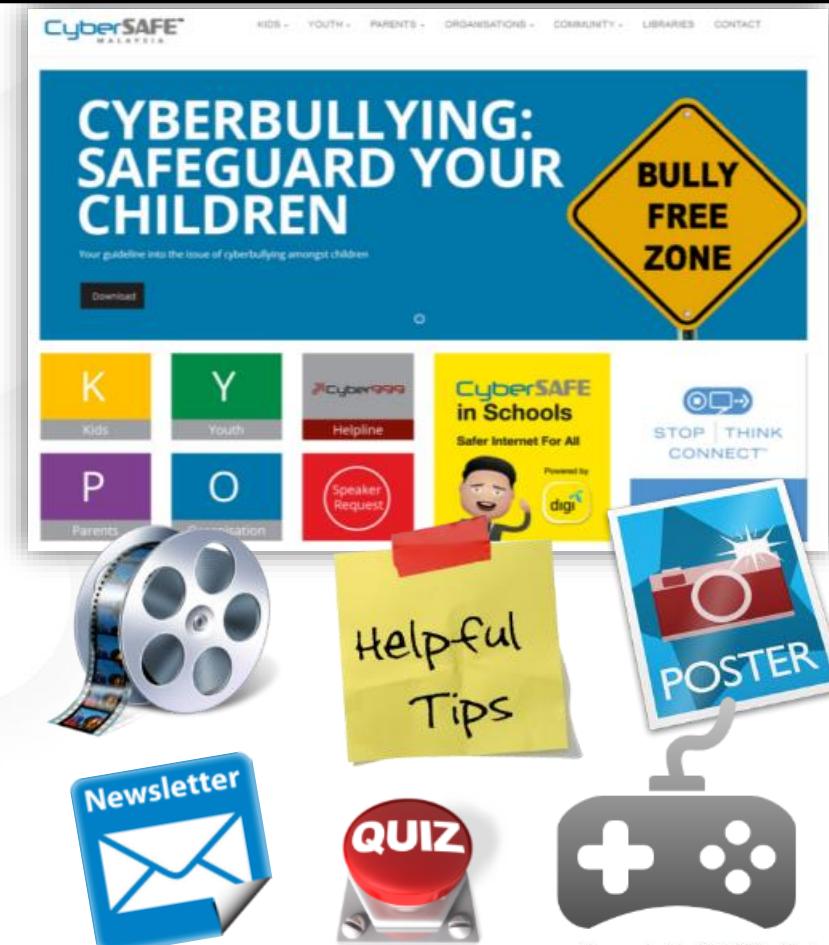
To nurture cyber security professionals that are capable in strategizing, planning and executing cyber security initiatives

KESEDARAN KESELAMATAN SIBER MELALUI ***CYBERSECURITY AWARENESS FOR EVERYONE (CyberSAFE)***



- CyberSAFE dilancarkan oleh YAB Timbalan Perdana Menteri
- Telah melibatkan **34,000** pelajar, pihak pengajar, para belia, dewasa dan lebih daripada **190** sekolah / organisasi.
- Program kesedaran yang dirujuk oleh **Australian Communications and Media Authority**

Menjadi keutamaan untuk menyediakan maklumat, peralatan dan sumber-sumber yang relevan untuk meningkatkan tahap kesedaran nasional berkenaan kepentingan keselamatan siber



CyberGuru

CYBER SECURITY PROFESSIONAL DEVELOPMENT

Kerjasama Dalam Pembangunan Kapasiti Keselamatan Siber

CyberSecurity Malaysia menggabungkan program latihannya ke dalam program latihan tempatan dan antarabangsa terpilih serta bekerjasama rapat dengan rakan usaha sama industri untuk menambahbaik, menyampaikan dan memasarkan perkhidmatan ini dengan berkesan dan cekap.

Kerjasama Akademik Keselamatan Siber



UNIVERSITI SAINS ISLAM MALAYSIA
جامعة العلوم الإسلامية الماليزية
ISLAMIC SCIENCE UNIVERSITY OF MALAYSIA



UTHM
Universiti Tun Hussein Onn Malaysia



UPM
UNIVERSITI PUTRA MALAYSIA
SERILMO PERBAIKI

POLITEKNIK
MALAYSIA
MERSING



The Energy University



UTP
UNIVERSITI TEKNOLOGI PETRONAS

HELP
University
university of achievers

GLOBAL ACE CERTIFICATION



Pensijilan Global ACE telah dipilih sebagai salah satu Projek Juara di bawah Kategori 5: Membina Keyakinan dan Keselamatan dalam Penggunaan ICT di WSIS Prizes 2020



MATLAMAT & OBJEKTIF

MATLAMAT

Mewujudkan tenaga kerja kompeten bertaraf dunia dalam bidang keselamatan siber dan menggalakkan pembangunan program profesional keselamatan siber di rantau ini

OBJEKTIF

1 Mewujudkan program pensijilan profesional yang diiktiraf di peringkat global

3 Menggalakkan pembangunan program profesional keselamatan siber di peringkat global

2 Menyediakan profesional keselamatan siber dengan pengetahuan, kemahiran, sikap (KSA) dan pengalaman yang betul

4 Memastikan kakitangan bertauliah telah dinilai secara bebas dan komited kepada tahap perkhidmatan yang konsisten dan berkualiti tinggi

PROGRAM LATIHAN PENSIJILAN GLOBAL ACE

A. Currently running Global ACE Certification Programmes

1. Certified Digital Forensics First Responder
2. Certified Information Security Management System Auditor
3. Certified Penetration Tester
4. Certified Secured Applications Practitioner
5. Certified Information Security Awareness Manager
6. Certified MyCC Evaluator
7. Certified Data Security Analyst
8. Certified IoT Security Analyst
9. Certified Cybersecurity Awareness Educator
10. Certified Security Operations Centre Analyst
11. Certified Incident Handling and Network Security Analyst
12. Certified IP Associate
13. Certified IT Associate
14. Certified Cybersecurity Data Science Analyst
15. Certified Mobile Security Analyst
16. Certified Cyber Law Practitioner
17. Certified Cybersecurity Risk Manager

B. Ready by 2023/2024

1. Certified Industrial Control System Security Analyst
2. Certified Secure Web Application (PHP) Developer
3. Certified Smart Card Reader Analyst
4. Certified Cloud Security Auditor
5. Certified IoT Blockchain Practitioner
6. Certified Cyber Forensics Analyst
7. Certified Web Application Penetration Tester
8. Certified Data Privacy Officer
9. Certified Data Privacy Specialist
10. Certified Chief Data Privacy Officer
11. Certified Cryptocurrency Seizing Officer

Brosur Pensijilan Global ACE AND CyberGURU



MINISTRY OF COMMUNICATIONS
AND MULTIMEDIA MALAYSIA



Accredited by:



Certified Cybersecurity Awareness Educator (CCAsE)

Certification



MINISTRY OF COMMUNICATIONS
AND MULTIMEDIA MALAYSIA



Accredited by:



Certified Digital Forensic for First Responder (CDFFR)

Certified Examination



Certification

The CDFFR examination is certified by the Global ACE Certification. The examination framework is designed to align with a set of relevant Knowledge, Skills and Attitudes (KSA) that are necessary for an Information Security Awareness Manager. Candidates will be tested via a combination of either continual assessment (CA), multiple choice (MC), theory/underpinning knowledge assessment (UK), practical assessment (PA).



CRYPTOGRAPHY FOR BEGINNERS

Level: Fundamental | **Duration:** 1 day

Objectives

1. Understanding cryptography
2. Learn why, where and when to apply the cryptography

Target Participants

1. Computer users who are new to cryptography

This course is designed specifically to create understanding on basics of cryptography and presenting main ideas in simple language. It highlights important components such as Stream Cipher, block ciphers, public key algorithms, digital signatures, and applications as well as a historical look at the field.



CRYPTOGRAPHY FOR INFORMATION SECURITY PROFESSIONAL

Level: Intermediate | **Duration:** 3 days

Information technology and security networks demand complex algorithms and cryptographic systems. This course covers cryptographic components such as policy, cryptography implementation, key management and security issues.

Objectives

1. Identify accurate cryptography solutions for organization
2. Advise organization on cryptography's risk, vulnerabilities and security issues

Target Participants

1. Individuals with Information Security qualifications

Objectives

1. Nurture participants on the importance of cyber security
2. Increase awareness on the use of Internet in radicalization
3. Raise the adoption of cyber security in creating a safer cyberspace and a better place to live and work
4. Identify different types of threats, risks and vulnerabilities that exist in both cyberspace and non-cyber space environment
5. Learn different type of security management practices
6. Learn various components of cyber terrorism
7. Understand cyber terrorism framework
8. Develop thorough understanding on cyber security by analysing case studies



CYBER SECURITY ESSENTIAL

Level: Fundamental | **Duration:** 2 days

This course provides general understanding about the importance of cyber security, create awareness on the growing cyber threats and trends and its impact towards cyber terrorism and internet radicalization. It also explains cyber terrorism framework and describes the core aspects of cyber terrorism.

This 2-days comprehensive course is tailored according to Malaysian perspective.

1. Nurture participants on the importance of cyber security
2. Increase awareness on the use of Internet in radicalization
3. Raise the adoption of cyber security in creating a safer cyberspace and a better place to live and work
4. Identify different types of threats, risks and vulnerabilities that exist in both cyberspace and non-cyber space environment
5. Learn different type of security management practices
6. Learn various components of cyber terrorism
7. Understand cyber terrorism framework
8. Develop thorough understanding on cyber security by analysing case studies

CYBER SECURITY MODULAR CERTIFICATION

MODULAR PROFESSIONAL CERTIFICATION

CyberSecurity Malaysia bersama Jabatan Pembangunan Kemahiran Malaysia (JPK) dan Lembaga Teknologis Malaysia (MBOT) telah memulakan projek untuk mengintegrasikan Global ACE Certification dan latihan TVET ke dalam projek sulung yang dikenali sebagai Pensijilan Profesional Modular Keselamatan Siber melalui National Occupational Skills Standard (NOSS).



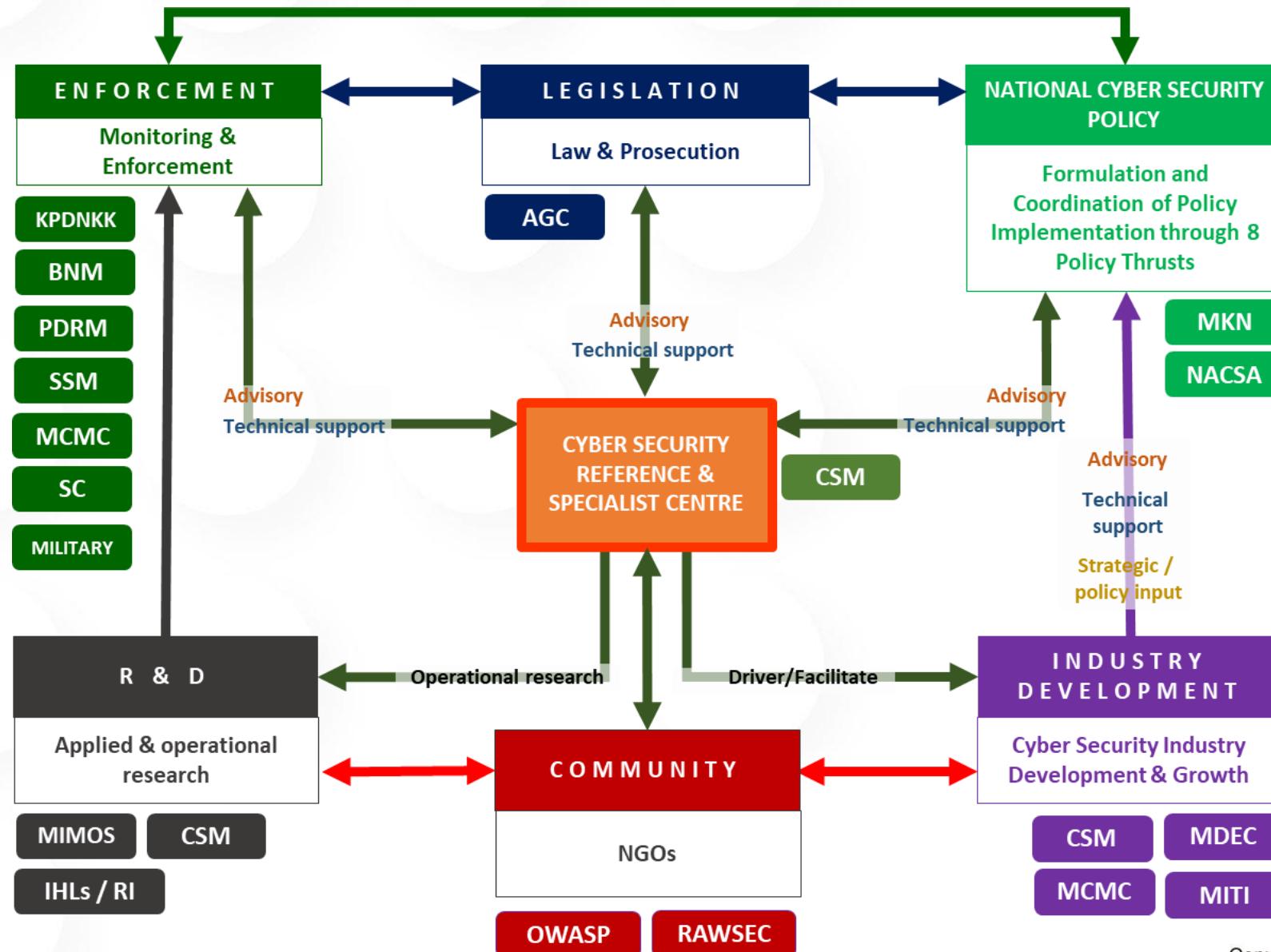
JABATAN
PEMBANGUNAN
KEMAHIRAN (JPK)
**KEMENTERIAN
SUMBER MANUSIA**



PROSES



EKOSISTEM CYBERSECURITY MALAYSIA





Ministries of Communication and Multimedia Strategic Framework

Strategic Thrust 2:

Driving the Digital Economy and IT Towards Developed Countries

Strategic Thrust 3:

Strengthen the regulation of a reliable and stable communications and multimedia ecosystem

SHARED PROSPERITY VISION
WAWASAN KEMAKMURAN BERSAMA

2030



12TH Malaysia Plan (RMK-12)

Pillar 1: Source of Growth

Pillar 4: Human Capital Transformation and Market Strengthening Labor:

Pillar 5: Inclusivity and People's Well being

Pillar 6: Institutional Reform

Pillar 7: Social Capital



Peranan CSM dalam Menyokong Polisi & Pelan Strategik Berkaitan Keselamatan Siber Negara



Malaysia Digital Economy Blueprint

Thrust 1: Drive digital transformation in the public sector

Thrust 4: Build agile and competent digital talent

Thrust 6: Build trusted, secure and ethical digital environment

Malaysia Cyber Security Strategy



Pillar 1: Effective Governance and Management

Pillar 2: Strengthening Legislative Framework and Enforcement

Pillar 3: Catalysing World Class Innovation, Technology, R&D and Industry

Pillar 4: Enhancing Capacity and Capability Building, Awareness and Education

Pillar 5: Strengthening Global Collaboration



National 4th Industrial Revolution Policy (N4IR)

Thrust 1:

Equip the Rakyat with 4IR knowledge and skill sets

Thrust 3:

Future-proof regulations to be agile with technological changes

MENANGANI KESELAMATAN SIBER MELALUI POLISI

1

Effective Governance and Management

- Enhancing National Cyber Security Governance and Ecosystem
- Improving Organization Management and Business Operation (Government, CNII and Business)
- Strengthening Cyber Security Incident Management and Active Cyber Defence

2

Strengthening Legislative Framework and Enforcement

- Enhancing Malaysia's Cyber Laws to Address Current and Emerging Threats
- Enhancing the Capacity and Capability of Cybercrime Enforcement

3

Catalyzing World Class Innovation, Technology, R&D and Industry

- Spurring National Cyber Security R&D Programmed
- Promoting a Competitive Local Industry and Technology

5 TONGGAK 12 Strategi

CyberSecurity
MALAYSIA

4

Enhancing Capacity & Capability Building, Awareness and Education

- Enhancing National Cyber Security Capacity and Capability Building
- Enhancing Cyber Security Awareness
- Nourishing Cyber Security Knowledge Through Education

5

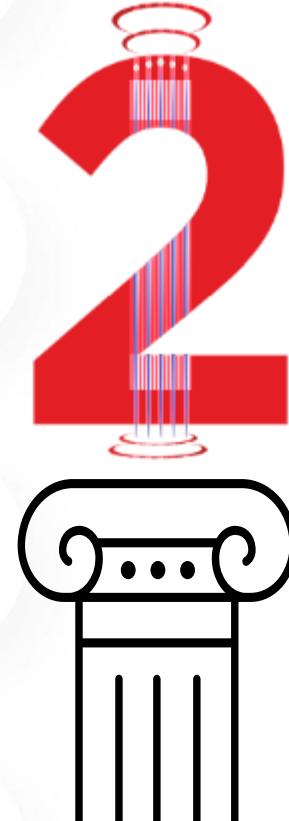
Strengthening Global Collaboration

- Strengthening International Collaboration and Cooperation in Cyber Security Affairs
- Demonstrating Malaysia's Commitment in Promoting Secure, Stable and Peaceful Cyberspace to Uphold International Security

RANG UNDANG-UNDANG KESELAMATAN SIBER

RUU Keselamatan Siber bakal digubal - Anwar

Haris Asyraf Hasnan
Jun 15, 2023 12:40 MYT



Memperkuatkan perundangan dan penguatkuasaan berkaitan keselamatan dan jenayah siber

- Mempertingkatkan Undang-undang Siber Malaysia untuk Menangani Ancaman Semasa dan Ancaman Muncul
- Meningkatkan Kapasiti dan Keupayaan Penguatkuasaan Jenayah Siber

“RUU Keselamatan Siber akan memberi NACSA, MKN punca kuasa undang-undang yang jelas untuk **mengawal selia dan menguatkuasakan undang-undang** berkaitan keselamatan siber serta menambah baik **keberkesanan fungsi-fungsi NACSA, MKN**

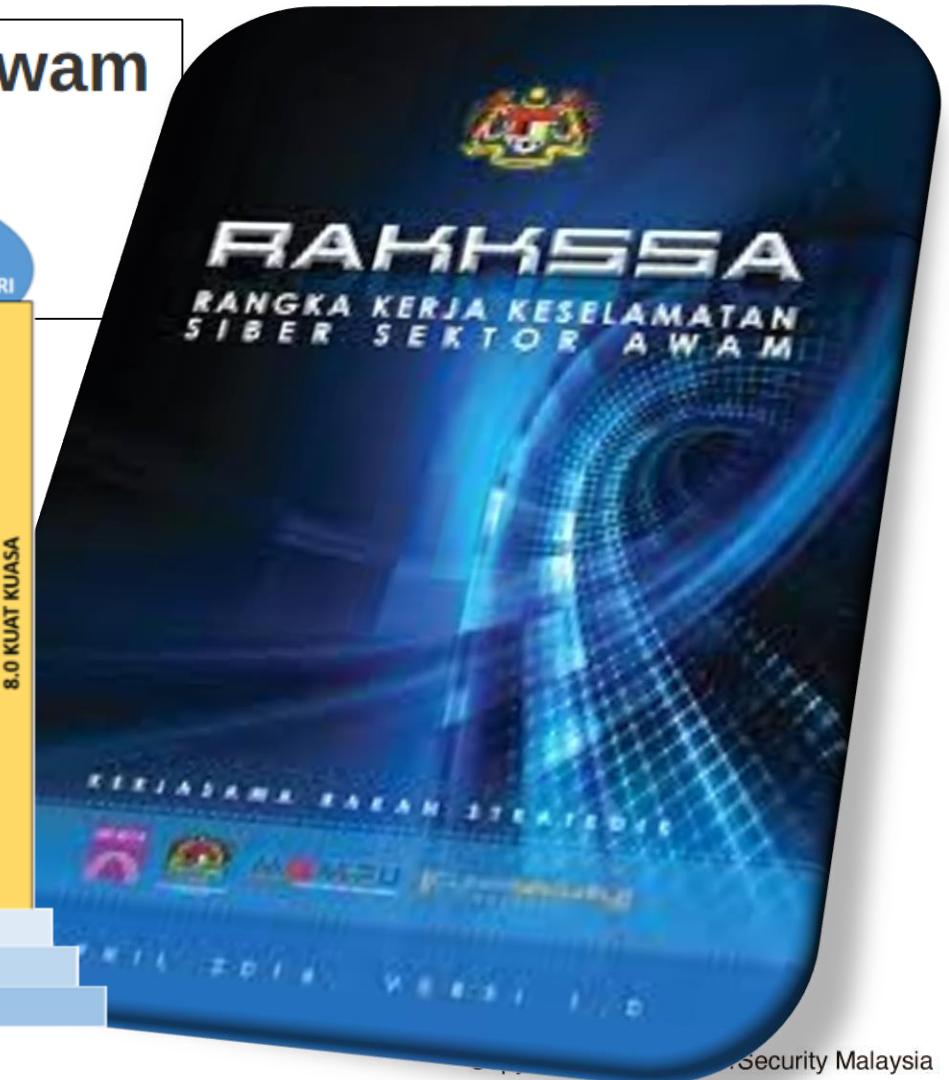
Sejajar dengan hasrat yang termaktub dalam Arahan MKN No. 26 Pengurusan Keselamatan Siber Negara dan Strategi Keselamatan Siber Malaysia (**Malaysia Cyber Security Strategy, MCSS**)” – Perdana Menteri Malaysia ke-10

Rangka Kerja Keselamatan Siber Sektor Awam (RAKKSSA)

MAMPU komited usaha digitalisasi sektor awam
melalui data raya

Ehsan A Marisah

November 10, 2021 15:07 MYT





LAWS OF MALAYSIA

ACT 709
PERSONAL DATA PROTECTION ACT 2010Date of Royal Assent :
Date of publication in the Gazette :2 June 2010
10 June 2010**01** Memudahkan urusniaga perniagaan / e-dagang / ekonomi digital**02** Merangsang dan meningkatkan kepercayaan – berintegriti dalam mengendalikan data peribadi**03** Mengelakkan penyalahgunaan data peribadi dan data peribadi sensitif**04** Memposisikan Malaysia sebagai sebuah negara di dunia yang menguatkuasakan perundangan perlindungan data peribadi yang kukuh

AKTA PERLINDUNGAN DATA PERIBADI 2010 (PDPA)

Isu dan cabaran berkaitan Akta Perlindungan Data Peribadi (PDPA) 2010

- Hanya melindungi daripada salah guna penggunaan data peribadi untuk tujuan komersial sahaja.
- Tidak mempunyai peruntukan yang khusus menangani isu dalam talian, yang termasuk data seperti geolokasi dan cookies.
- Tidak boleh digunakan jika data peribadi diproses di luar Malaysia.
- Ketinggalan di belakang perlindungan data dan inisiatif pengawalseliaan yang serupa di tempat lain seperti GDPR.

Usaha Untuk Pindaan Akta PDPA 2010 Sedang Dilaksanakan Oleh JPDP/KKD

AKTA PERLINDUNGAN DATA PERIBADI 2010(PDPA)

CyberSecurity
MALAYSIA



1 General Principle

2 Notice and Choice Principle

3 Disclosure Principle

4 Security Principle

5 Retention Principle

6 Data Integrity Principle

7 Access Principle



Personal Data Protection Act 2010 (Act 709)



LAWS OF MALAYSIA

ACT 709
PERSONAL DATA PROTECTION ACT 2010

Date of Royal Assent :
Date of publication in the Gazette :

2 June 2010
10 June 2010

Govt looking at PDPA amendments to beef up security, prevent data leakages

Published: Feb 18, 2023 6:18 PM · Updated: 8:05 PM

CyberSecurity Malaysia Turut Bekerjasama Dengan Jabatan Perlindungan Data Peribadi (PDPD) Untuk Memperkasakan Perlindungan Data

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MENGATASI PERLINDUNGAN DATA DAN KETAHANAN SIBER MELALUI TEKNOLOGI ENKRIPSI



- **Dasar Kriptografi Negara** telah diluluskan oleh pihak Kerajaan pada Januari 2013
- Terdapat aplikasi kriptografi yang komprehensif dalam Kerajaan ke Kerajaan (G2G), Kerajaan ke Warganegara (G2C), Kerajaan ke Perniagaan (G2B) dan Perniagaan ke Perniagaan (B2B) ke arah memastikan persekitaran siber yang selamat dan dipercayai
- Kriptografi juga menyokong Ekonomi Digital Nasional dan merealisasikan Agenda Transformasi Nasional untuk mengubah Malaysia menjadi negara maju dan berpendapatan tinggi

MENANGANI PERLINDUNGAN DATA MELALUI GARIS PANDUAN KESELAMATAN SIBER

GUIDELINES

1. Cyber Security Guideline for Industrial Control System (ICS)
2. Cyber Security Guidelines for Secure Software Development Life Cycle (SSDLC)
3. Cyber Security Guideline for Internet of Things (IoT)
4. Cyber Security Guideline for Industry 4.0 (I4.0)
5. Cloud Security Implementation for Cloud Service Subscriber (CSS) Guideline
6. Guideline for Securing MyKAD EBA Ecosystem
7. Guideline on the Usage of Recommended AKSA MySEAL Cryptographic Algorithms



CyberSecurity Malaysia products



SiberKASA

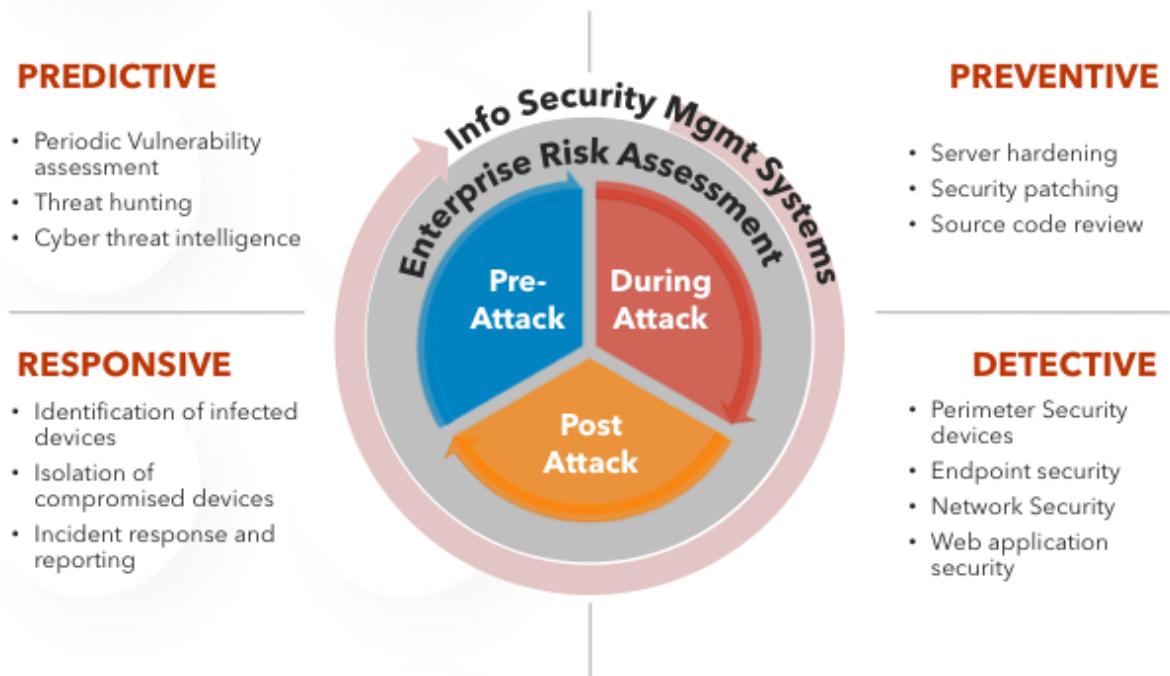
TEKNOLOGI



KETAHANAN SIBER MELALUI KESELAMATAN ADAPTIF

Menjadi lebih proaktif, dinamik and pendekatan keselamatan siber yang lebih bersepadu

Keselamatan adaptif adalah keselamatan siber yang menganalisis tingkah laku dan insiden untuk melindungi dan menyesuaikan diri dengan ancaman sebelum ia berlaku. Dengan Senibina Keselamatan Adaptif, sebuah organisasi perlu terus menilai risiko dan secara automatik memberikan penguatkuasaan



Kos organisasi ada pada setiap tahap dalam kitaran insiden tindak balas — **pengesanan, notifikasi, tindak balas, pasca insiden**, dan kos kerugian perniagaan.



MENANGANI DAYA TAHAN SIBER MELALUI TEKNOLOGI DAN PERKHIDMATAN **RESPONSIF** CYBERSECURITY MALAYSIA

MyCERT

Malaysia Computer Emergency Response Team

DIGITAL FORENSIC (DF)



Cyber999 Help Centre



Cyber Detect, Eradicate and Forensics
(CyberDEF)



MASSA



Coordinated Malware Eradication & Remediation Project (CMERP)



X-Forensics Tools



CamMuka V2.0



Lebahnet (Honeynet Project)

Computer Security
Incident Response Team
(CSIRT) Consultancy

MENGUATKAN PERLINDUNGAN DATA MELALUI KECERDASAN ANCAMAN SIBER PREDIKTIF



AHMAD FAUZI (dua dari kanan) dan Amiruddin (dua dari kiri) menunjukkan MoU di Johor Bahru semalam.

Makmal khas tangani serangan siber

Oleh AHMAD ISYAFIQ MAD. DESA

JOHOR BAHRU - Universiti Teknologi Malaysia (UTM) menubuhkan makmal khas bertujuan melaksanakan kajian mengenai kaedah menangkis serangan siber yang semakin menular kini.

Timbalan Naib Canselor (Penyelidikan dan Inovasi) UTM, Prof. Dr. Ahmad Fauzi Ismail berkata, penubuhan UTM-CSM Cyber Security X Lab yang mencecah kos sebanyak RM100,000 itu merupakan sebahagian daripada komitmen universiti mengekang jenayah siber global itu.



Beliau berkata, makmal yang ditempatkan di bawah Fakulti Pengkomputeran UTM menempatkan para penyelidik sepenuh masa.

"Fakulti berkenaan mempunyai 170 pensyarah dalam pelbagai bidang berkaitan teknologi siber. Sebanyak 15 penyelidik di UTM-CSM Cyber Security X Lab akan bertindak menangani jumlah serangan siber dan teknik penggodaman yang semakin canggih kini," katanya.

Beliau berkata demikian pada sidang akbar selepas Majlis Menandatangani Perjanjian (MoU) antara UTM dan CyberSecurity Malaysia (CSM) di Fakulti Komputeran, UTM

di sini semalam.

Hadir sama Ketua Pengarah Eksekutif CSM, Dr. Amiruddin Abdul Wahab.

Berdasarkan statistik terkini, kadar jenayah siber sedang meningkat di negara ini dengan purata 10,000 kes dilaporkan setiap tahun.

Ahmad Fauzi menambah, sebagai permulaan, UTM menerima peruntukan sebanyak RM360,000 daripada CSM untuk disalurkan kepada pembangunan projek yang dirancang.

"Pada peringkat awal, kerjasama kita menumpukan tiga bidang iaitu Malware Analitik, risikan ancaman siber dan ancaman berterusan maju," katanya.



CyberDEF: FIRE EYE BEST CYBERSECURITY INNOVATION AWARD 2015



The slide features the MOSTI logo at the top left and the CyberSecurity Malaysia logo at the top right. The main title is "CyberDEF". Below the title, there is a large image of a digital eye and a fingerprint. The text discusses the changing landscape of cyber threats and the need for organisations to be responsive, proactive, and pre-emptive. It lists three building blocks: 1. Cyber analytics capability, 2. Cyber forensic capability, and 3. Computer Security Incident Response Team (CSIRT) and facilities ready. A callout box highlights these building blocks. At the bottom, it states that these basic building blocks help monitor risks and drive better decision-making.



CyberD.E.F

- **Detection**
- **Eradication**
- **Forensic**



MENGUKUHKAN PENCEGAHAN KESELAMATAN CYBER MELALUI PENILAIAN TEKNOLOGI

Secure Software Development
Lifecycle (SSDLC) Lab & Services



Internet of Things (IOT) Lab

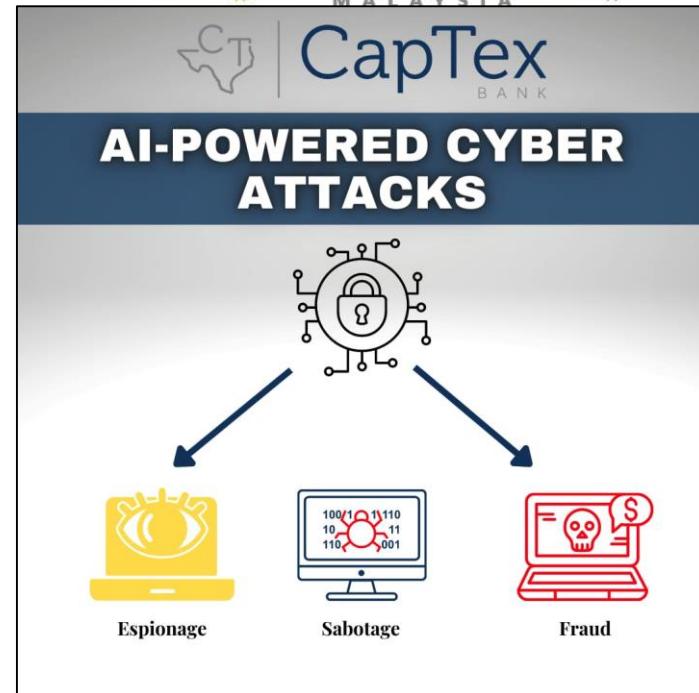
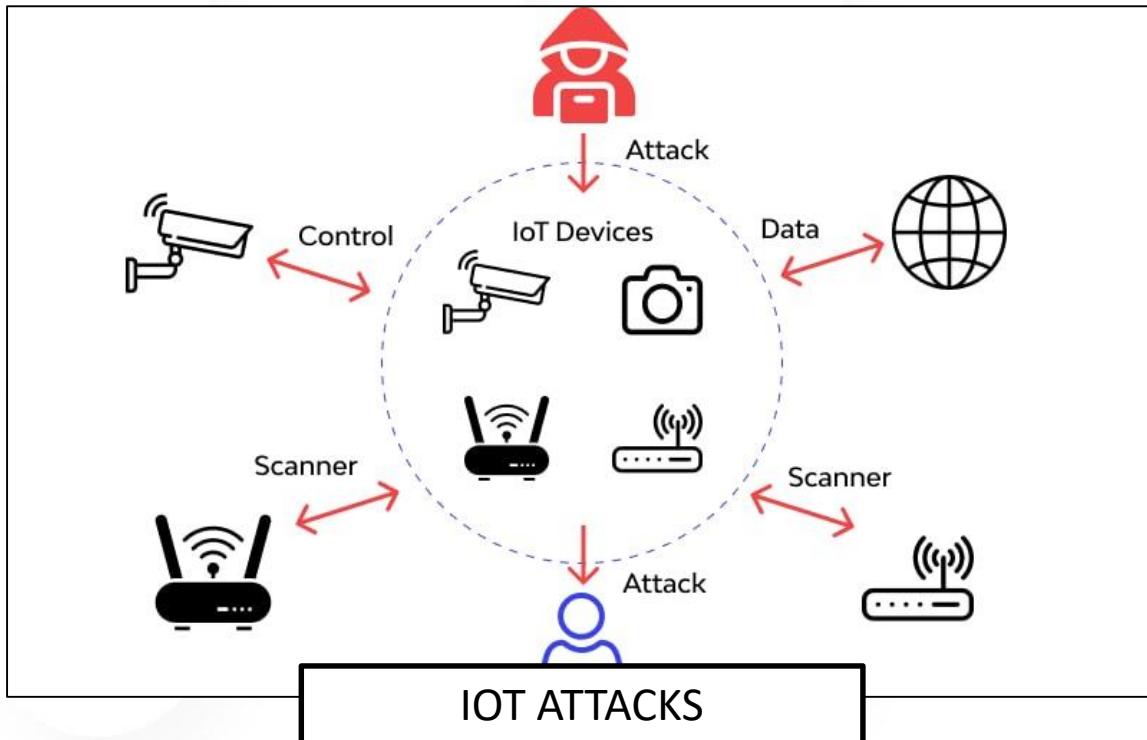


Robotic Lab (4th Industry Revolution)





CYBERSECURITY 2023 OUTLOOK



CYBERSECURITY 2023 OUTLOOK

KESIMPULAN DAN HALA TUJU

Keselamatan siber penting untuk sebuah organisasi beroperasi dengan lebih efisien dan kritikal untuk melindungi data mereka;

Semasa organisasi membina prosedur keselamatan siber, organisasi tersebut perlu menggunakan model keselamatan yang berperingkat;

Mempunyai perlindungan keselamatan siber yang dinamik, holistik, inovatif dan adaptif untuk menangani serangan siber yang canggih;

Menguatkan keselamatan siber tempatan dan global melalui kerjasama antara agensi dan *Public-Private Partnership*; dan

Persediaan lengkap adalah kunci untuk menangani ancaman-ancaman siber terkini.





TERIMA KASIH

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Best Child Online
Protection Website



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