CYBER100

National Cybersecurity Innovation
Challenge Program

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INTRODUCTION

As the digital economy takes centre-stage around the world, the demand for a safe and secure cyberspace has also grown exponentially.

In order to meet the ever-growing demand of cybersecurity solutions, the Malaysia Digital Economy Corporation (MDEC), in collaboration with the National Cyber Security Agency (NACSA), is initiating the National Cybersecurity Innovation Challenge Program (Cyber100).

The Cyber100 initiative will host numerous cybersecurity challenges on a national scale. Its goal is to seek solutions for industry-specific problems while promoting the creation of local innovative technologies. This will further strengthen Malaysia's information security community and position as a digital hub for this sector.

Significant innovations can be developed when talented people look past the obvious. Think big. Think outside the box.

Solving National Challenges	Access to Cybersecurity Community	Accelerate Cybersecurity Adoption	Convergence of Technologies
Validating challenges from key stakeholders — Top 10 national cybersecurity challenges	Mentor and subject matter expert to support the innovation — Awareness program for key stakeholders	Develop and pilot adoption programs — Create and curate local supplier scheme listing	Identify and address potential security challenges

PREFACE

MDEC® | MDEC

Over the past several years, we have witnessed the extraordinary growth of the digital economy. The Internet has rapidly grown into an area where people share ideas, learn new skills, and provide towards and learn from the vault of human knowledge. As is, digitisation is how businesses increase productivity and stimulate innovation.

As MDEC is the lead government agency to drive forward Malaysia's digital economy, it plays a catalytic role in shaping its future. Its role includes empowering local businesses and the Malaysian people with the right tools, proper education and providing all with access to resources needed that can help them reap the endless benefits of digital technologies and services.

Cyber100 is Malaysia's First Cybersecurity Innovation Challenge Program. The initiative includes various awareness and innovation platforms and services that help develop and enhance national cybersecurity capacities and capabilities.

MDEC will keep on doing its utmost to promote the development and deployment of local technologies and establish as well as expand a competitive local cybersecurity industry:

01
—
Empowering Malaysians with digital skills

02
—
Enabling digitally-powered businesses

03
—
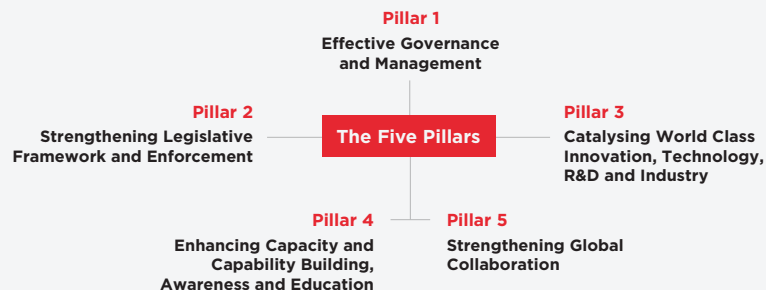**Driving digital sector investments**

PREFACE

NACSA | NACSA

Cyber security has become an emerging discipline and has driven the focus of many organizations as well as government to invest in advanced security solutions. With the increasing number of cyber security threats, the need for advanced cyber security solutions is crucial. The common cyber security solutions are not enough accomplished of securing the organizations from advanced threats of cloud, network and endpoint security, among others. Besides, high cost associated with cyber security solutions and services limits the adoption among small and medium enterprises.

In order to handle this issue, National Cyber Security Agency (NACSA) as the national lead agency for cyber security, has planned to spur cyber security innovation and research and development (R&D) by local industry players. A collaboration between NACSA and MDEC will help to create a conducive domestic environment for innovation and R&D.

A program like Cyber100 is a good initiative to encourage innovation, while at the same time promoting a competitive local industry and technology. We hope that this program will be a continuous program and more programs alike will be planned in the near future.

Malaysia Cyber Security Strategy 2020-2024

Pillar 1
Effective Governance and Management

Pillar 2
Strengthening Legislative Framework and Enforcement

The Five Pillars

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

CYBER100 FIRST COHORTS

CYBERSECURITY COLLABORATION

The Cyber100 Challenge was launched in November 2019 in the hopes of building a better connected and more secure nation. The Cyber100 Challenge began with entry submissions from various companies, of which only six were shortlisted.

These six then participated in an orientation program, whereupon the companies updated committee members of their progress. In return, the committee members guided and advised these participants accordingly. After the orientation period, the six companies were required to present and demonstrate their challenges and proposed solutions. The demonstration gave them the opportunity to receive feedback and comments on their respective solutions.

By the end of the Cyber100 Program, there is the golden opportunity for the solutions that the six companies presented to undergo pilot testing and be adopted by other agencies with help from the supporting ecosystem partners.

Securemetric

Securemetric is the leading cybersecurity company in Southeast Asia and they are listed on the ACE Market of Bursa Malaysia Securities. They are pioneers in setting up Certificate Authorities (CA) across the region with strong in-house R&D capabilities in Digital Signature, Time Stamping and Authentication Solutions utilising PKI (Public Key Infrastructure) technologies.

Securing Digital Identities   **Securing Transactions**   **Securing Applications**

Challenges   VS   Solutions

1. Concerns on identity theft, data security, login password security and system integrity.

2. Remote working policies and accessing office environments using personal devices (BYOD).

3. Weak VPN authentication and decentralised authentication management.

4. Compliance to regulatory requirements.

1. Made in Malaysia: TechnoFund from Ministry of Science, Technology and Innovation (MOSTI) of Malaysia in 2015.

2. First in Malaysia: Common Criteria EAL4+ Certification. First in Southeast Asia: FIDO2 certified in JAPAN.

3. Adaptive Intelligence (AI) with Risk Scoring: Prevention of unauthorized access through behaviour study.

4. Strong password-less authentication with FIDO2 and PKI.

Solutions

> **Multi Factor Authentication Solution (MFA)** and **Single Sign On (SSO).**

Security
Eliminate phishing, fraud and password theft.

Efficiency
Control, protect and secure all your applications through one login credential.

Compliance
Comply to PDPA and GDPR through MFA.

2017
Common Criteria EAL4+ Certification

2019
FIDO2® Certification

nexagate | Nexagate

Nexagate is one of Malaysia's Leading IT Security Consulting and Service Providers. They have delivered trusted security solutions to more than 250 organizations across many verticals since 2010. They are ISO27001-certified since 2012 in the area of Information Security Consulting, Security Assessment and Managed Security Services and have been granted MSC-status company in 2013 under Global Business Services. They are also recognised by CREST, an international accreditation body, for their Penetration Testing services.

| Ensure Compliance | Monitor Asset and Threats | Instant Protection | Zero Capital Expenditure | Simplify Management | Fully Managed |

Solutions

> We aim to help organizations regardless of any sizes, **improve their security processes, achieve compliance** and **protect their data** with our range of **cloud-based managed security solutions.**"

Monitor your organizations' assets and threats

Improve security processes

Manage your protection solutions

Since 2012
Certified ISMS/ ISO27001

2017
Top APAC Cyber Security Company

Since 2020
CREST Certification

Challenges

vs

Solutions

Organizations are facing significant challenges in mitigating cyber risks which include increasing compliance requirements, costly security solutions to deploy and maintain, and shortage of cybersecurity talents. Hence, there is a need for a solution that provides **total cybersecurity visibility** to ensure effective management of initiatives.

NSI Unified Security Management addresses the issues mentioned - a unified management solution that shows relevant information to various levels of stakeholders. The platform presents 3 key areas in monitoring the cybersecurity posture of the organization, which includes Compliance, Threat, and Protection Management.

Compliance Management	Threat Management	Protection Management
ISMS Dashboard	Asset and Threat Dashboard	Protection Dashboard
Document Management	Asset Discovery	Web Security
Implementation Tracking	Vulnerability Scanning	DDoS Protection
Incident and Change Management	Vulnerability Report	Endpoint Protection

DNSVAULT | **DNSVault**

DNSVault ITP is a DNS based domain filtering solution, hosted and managed by DNSVAULT in our shared cloud environment. This cloud-based DNS domain filtering solution provides complete protection from online threats such as viruses, malware, ransomware, phishing and comprehensive content filtering. DNSVault ITP is a low maintenance solution that can be set up in a few minutes to stop your users from accessing inappropriate content online.

Challenges   vs   Solutions

Cyberattacks against big companies are well-publicised by the news media, while attacks against small firms generate little attention. This can give small businesses a false sense of security. Yet, small firms are generally more vulnerable than large ones because they have fewer resources to devote to security.

Our award-winning technology allows you to:

1. Block malware, ransomware and viruses

2. Filter the content your users can access

3. Reduce IT overheads as this cloud-based solution does not require any software installation

4. Control multiple locations from a central console which can be remotely accessed

5. Enforce Safe Search with a single click

6. BYOD Protection – filter multiple devices on and off site

Solutions

> We believe that everyone should have the right to live in a **safe and protected online society without the fear of potential intrusion by cyber criminals.**

2017
ITEX Gold Medal and Cyber Security Company of the Year 2017

2018
Common Criteria EAL2 Certification

2019
Cyber Security Innovation of the Year 2019

Scalable and cost-effective
Suitable for small to large company

Low-maintenance
Provide users with automated protection from online threat

Effective
DNSVault ITP is the easiest way to effectively protect your users everywhere in minutes

Tecforte | **Tecforte**

Tecforte is an award-winning company that specialises in Cybersecurity Information and Threats Management. With over 15 years of dedicated focus, our solution has been leveraged to create better and stronger cyber defence and resilience among Governments and all critical Industries.

Challenges   VS   Solutions

Lately, many organizations find Cybersecurity Management becoming more and more challenging! There are too many new devices and new cyber threats to manage and monitor. Due to lack of resources and tools, many fail to process security events and attacks in real-time.

As it has become the universal approach for critical security operations worldwide to adopt SIEM and TIP - Security Information and Event Management, and Threat Intelligence Platform - Log Radar makes your cybersecurity operations more secure and sustainable. It provides an All-In-One appliance, combining everything you need to manage cybersecurity effectively.

Proactive Global Threat Intelligence

Prioritise incident response and patching

Full Coverage of Data Collection

Leave no blind spots in monitoring scope

Easy Compliance to ISO27001

Maintain and upkeep organization's compliance level

Strong Advance Analytics

Automated real time security analysis

Integrated Incident Management

Better information management and team collaboration

Solutions

> ...our experience and domain expertise have been leveraged **to create stronger cyber defence** and **resilience among Governments** alongside **key Industries in the region.**

Threat Intelligence Platform

Security Information and Event Management

Incident Management

2015
Malaysia's Cybersecurity Company of the Year 2015

2018
Malaysia's Cybersecurity Product of the Year 2018

2019
Malaysia's Cybersecurity Professional of the Year 2019

Privacy

Solutions

" SecureKi solutions are designed and developed with futuristic and innovative security technologies designed to **help organizations** to **secure** and **manage** their **enterprise passwords** in an effective and automated way. "

2016
APICTA Awards Malaysia:
Best of Security

2017
Common Criteria EAL2 Certification

SECUREKi | **SecureKi**

SecureKi specialises in securing and managing credentials which helps many customers to stop targeted attacks, mitigate insider threats, achieve compliance, improve operations and secure the hybrid enterprise.

SecureKi solutions are designed and developed with futuristic and innovative security technologies designed to help organizations to secure and manage their enterprise passwords in an effective and automated way.

Challenges **VS** ### Solutions

As the integration of core infrastructure and business systems expand in the age of digital connectedness, safeguarding privileged access is imperative to avert data breach successfully and is a core requirement of multiple compliance regimes.

SecureKi Advanced Credential Management helps drive IT security and compliance risk reduction and improves operational efficiency by enabling privileged access defence.

SecureKi Advanced Credential Management (ACM) is the next generation automated privileged password management solution with visual recording, fine-grained access control, multi-factor authentication, and Infrastructure Single-Sign-On capabilities.

Privileged Password Management

Enforcing and maintaining password policy

Advanced Credential Management

Provides identity infrastructure Single-Sign On with OTP verification without exposing credential

Smart Analytic

Provides a Session Monitoring feature that covers both CLI and GUI modes.

Solutions

> **Protect** against **today's ever-changing threat** landscape.

2017
Recipient of SME100 Malaysia Fast Moving Company

e Lock | e-Lock

The more time you spend online, the more you can expose yourself to various cyber-attacks. e-Lock Corporation Sdn. Bhd. is a premier IT security company that provides enterprises with solutions against identity thefts, advanced cyber-attacks and threats to corporate data integrity. Their multi-layered protection keeps your data safe from threats, including ransomware. Their award-winning solutions are designed to ensure that all organizations are well protected.

Challenges
VS
Solutions

Organizations reporting as being victims to ransomware attacks are becoming increasingly frequent. These attacks have produced an incredible amount of damage to companies, as much as USD 11.5 billion in 2019. The sophistication and ingenuity of the ransomware strikes have made it difficult for standard anti-viruses and firewalls to be effective against these strikes.

e-Lock Matrix Service provides two-step protection against ransomware. The first layer is a Zero-day Attack Solution which creates a wall of trusted applications in your endpoints to provide a fence of protection for your hardware and devices against unknown attacks. The second layer protects the data. It ensures 24/7 availability of your endpoint data by providing seamless real-time encrypted data backup.

Managed Security Services
Customisable Managed Security Services

Technical Support Services
Provide support to companies' security and network devices to ensure optimal operational levels

System Integration Services
Integrating solutions from multiple vendors to work seamlessly

Security Counselling Services
Provide your company with the knowledge, expertise and efficiency needed to conduct thorough security and risk evaluations of your IT environment

www.elock.com.my   sales@elock.com.my

SUPPORTED AGENCIES

CYBERSECURITY LEADERS

The supporting agencies have a key role in driving the country's cybersecurity community and position as a digital hub.

MINISTRY OF COMMUNICATIONS AND MULTIMEDIA MALAYSIA

Empowering the society to be Connected, Informative, Creative and Digitally Cultured.

NACSA
AGENSI KESELAMATAN SIBER NEGARA
NATIONAL CYBER SECURITY AGENCY

Driving National Cyber Security Initiatives.

MDEC®

Leading Malaysia's digital economy forward to ensure easy access, with the goal of achieving shared prosperity, for all.

**JABATAN PERDANA MENTERI
UNIT PEMODENAN TADBIRAN DAN PERANCANGAN PENGURUSAN MALAYSIA (MAMPU)**

Spearheading the digital government initiatives

MCMC

Establishing a communications and multimedia industry that is competitive, efficient and increasingly self-regulating, generating growth to meet the economic and social needs of Malaysia.

CYBER100