




ROLE OF STATES IN CYBERSPACE











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LIKE IT OR NOT ...

The ICT has changed our lifestyle

 E-Commerce	 Online games
 E-Government	 Email / P2P
 Mobile banking	 Chatting / Blogging / Cyber Media
 Online banking / investment	 Social networking sites



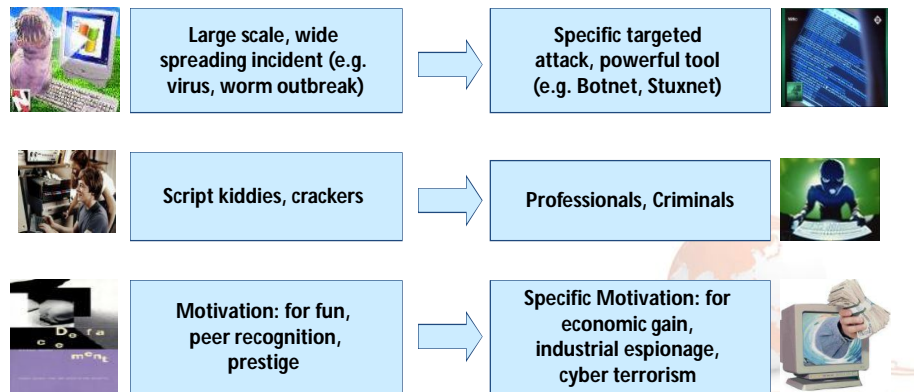
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LIKE IT OR NOT ...



Cyber Threats Are Changing



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The World Today is **HIGHLY CONNECTED**



19.2 mil

Digital citizens in Malaysia

Source:

* - Malaysia Communication and Multimedia Commission 2013

2,749 million*
Digital citizens worldwide
(ITU 2013)

5 billion in 2015
– Nokia Siemens)

46%
1,269 million*
Digital citizens in Asia & Pacific
(ITU 2013)

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THE MORE WE'RE INTERCONNECTED TO THE CYBER SPACE, THE MORE WE ARE AT RISK TO CYBER THREATS ...



CyberSecurity MALAYSIA

Topic: Security | Discover | Follow via: RSS | Email

As Nasdaq's site hit by hackers, report says half of world's exchanges suffered cyberattacks

Summary: According to a report, half the world's financial exchanges suffered cyberattacks in past year. And on Thursday, hackers hit the Nasdaq's Community pages.

By Zack Whittaker for Between the Lines | July 18, 2013 -- 15:30 GMT (23:30 SGT)
Follow @zackwhittaker

Cyberwar is reality world must fight: UN official
July 16, 2013 | AFP | 0

Istanbul Ataturk International Airport targeted by a cyber attack
by papantop on July 28th, 2013

Cybersecurity
Black Hat event highlights vulnerability of U.S. critical infrastructure
Published 30 July 2013 | Share | Facebook | Twitter | LinkedIn

Home > Security > Cyberwarfare
News
Oil, gas field sensors vulnerable to attack via radio waves
Researchers with IOActive say they can shut down a plant from up to 40 miles away by attacking industrial sensors
By Jeremy Kirk
July 25, 2013 10:31 PM ET | 2 Comments


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ROLE OF STATES IN CYBERSPACE

Areas of Concern

1. Economic Growth & Development
2. Protection of National Values
3. Domestic Cyber Security
4. Regional Cyber Security Cooperation



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1. Economic Growth & Development

2. Protection of National Values

3. Domestic Cyber Security

4. Regional Cyber Security Cooperation



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GUIDING PRINCIPLES - ECONOMIC GROWTH & DEVELOPMENT

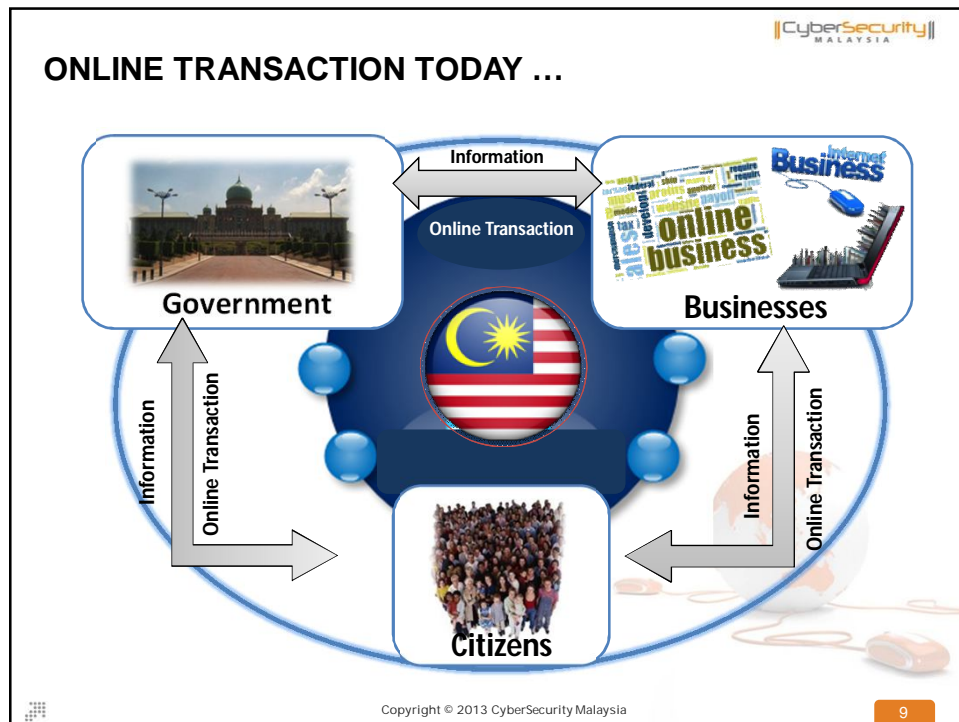
States should maintain an open environment that supports free flow of information in cyberspace

States should foster entrepreneurship and business transformation



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MALAYSIA'S MULTIMEDIA SUPER CORRIDOR BILL OF GUARANTEE NO. 7: TO ENSURE NO CENSORSHIP OF THE INTERNET

Policy Objective

- To realize the mission of Malaysia to be a major global ICT hub, the Government recognises the revolutionary role of the Internet in facilitating information exchange and innovation, and providing the basis for continuing enhancement to quality of work and life

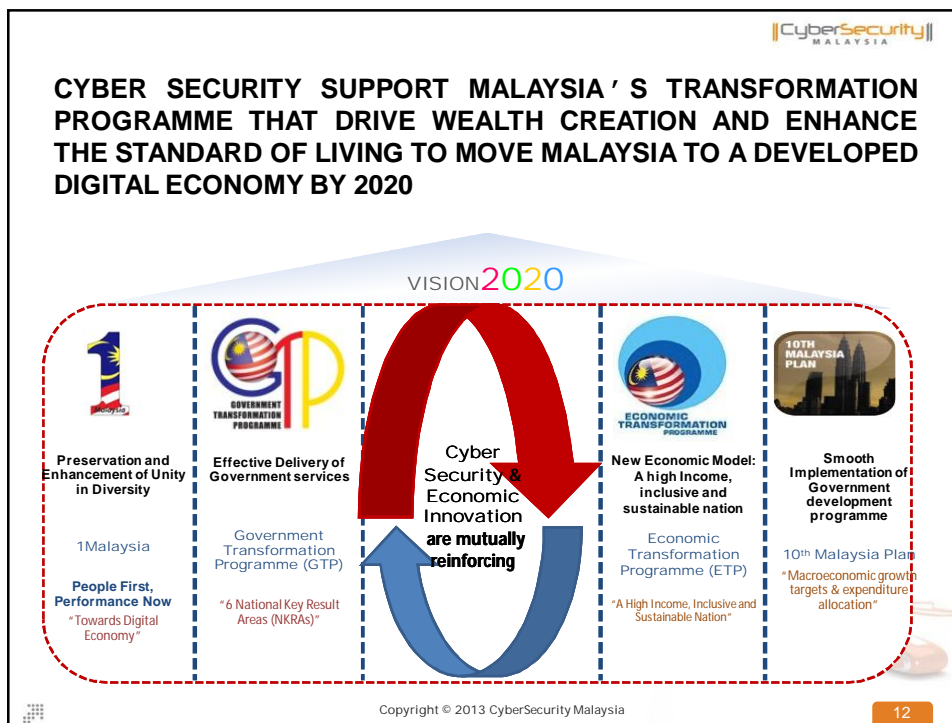
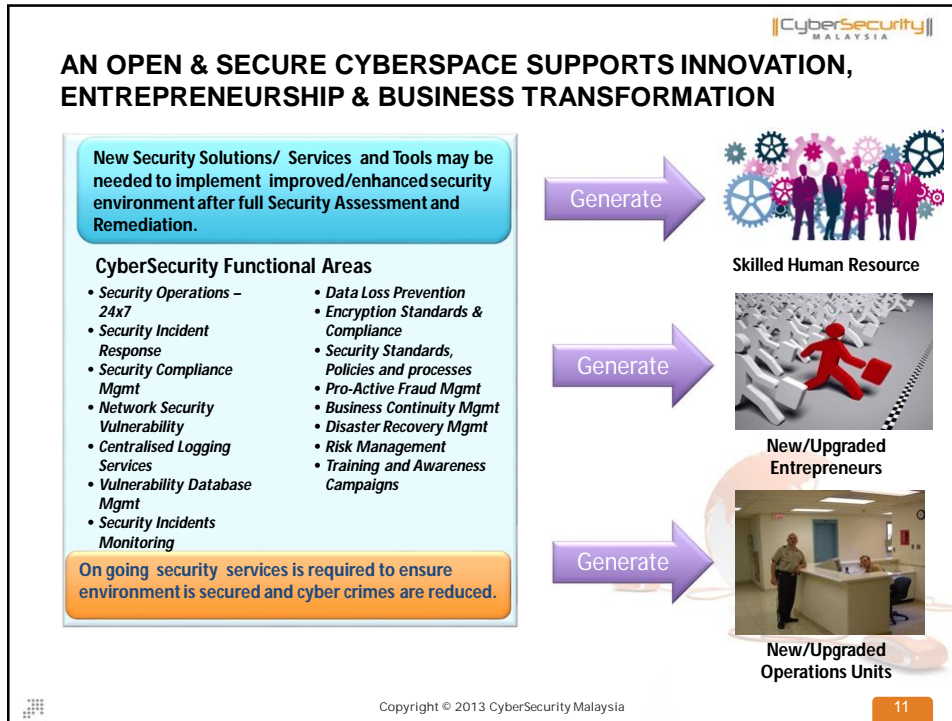
Interpretation


- While the Government will not censor the Internet, this does not mean that any person may disseminate legal content with impunity and without the law. To the extent that any act is illegal in the physical world, it will similarly outlawed in the online environment.

Source: <http://www.mscomalaysia.my/news/introducing-msc-malaysia-certified-solutions#bog7>


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1. Economic Growth & Development
2. Protection of National Values
3. Domestic Cyber Security
4. Regional Cyber Security Cooperation



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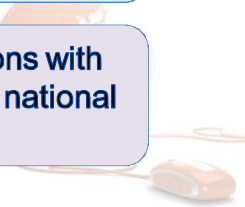



GUIDING PRINCIPLES – PROTECTION OF NATIONAL VALUES

States have the sovereign right to define and protect their national values

National values sum up the national character and these values are ideals that a State upholds and treasures most

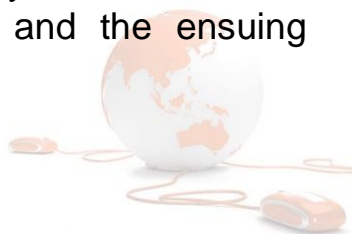
Cultural exchanges and collaborations with others shall not be at the expense of national security and social harmony



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ACKNOWLEDGING AND RESPECTING DIFFERENCES

- Certain conducts in cyberspace that are acceptable in a given State may be deemed inappropriate to another
- These differences will ultimately reflect the levels of criminalization, legislation and the ensuing actions taken by any State



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EXAMPLE: INSULTING THE ROYALTIES

In some States, people can get away with almost all forms of offensive remarks; with the exception of hate crime-related utterances

In Malaysia, it is an offence to bring into hatred or contempt or to excite disaffection against any Ruler and punishable under the Sedition Act 1948

Royal insult: Bloggers to be charged

Hafiz Yatim | Mar 12, 09 6:35pm

Six people nationwide will be hauled up in court for insulting Perak Sultan Azlan Shah in blogs or through the posting of comments.

It is learnt that to be charged tomorrow are two individuals at the Kuala Lumpur Sessions Court, one in Petaling Jaya, Selangor, one in Kota Kinabalu, Sabah and one in Butterworth, Penang.

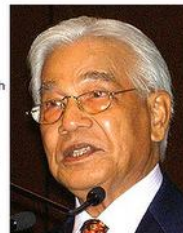
Another person is scheduled to be charged in Kuala Terengganu on Sunday with a similar offence.

It is understood that they are being hauled up for posting comments which have been deemed to be insulting to the Perak sultan over the present political crisis in the Silver State, which saw the Pakatan Rakyat-led government being ousted by Barisan Nasional following the defection of three assemblypersons.

The crisis culminated in Sultan Azlan Shah asking the ousted Pakatan Menteri Besar Mohd Nizar Jamaluddin to step down. However, Nizar refused, resulting in a protracted battle in courts in Kuala Lumpur and Ipoh.

Facing jail, fine

Bukit Aman's Commercial Crime Department's Cyber and Multimedia Crime Investigation unit has probing the cases for the past one month.



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EXAMPLE: POSSESSION OF PORNOGRAPHIC MATERIALS

In some States, there is no prohibition on the possession of pornographic material; with the exception of child pornography

In Malaysia, any form/type of pornography is prohibited and conviction of possession of such material can lead to a jail term of up to three years, fine or both under Section 292 of the Penal Code

Porn peddler fined RM30,000

By Edward R. Henry

A bank clerk who sold pornographic materials online became the first person to be charged under the Communications and Multimedia Act for improper use of network.



Tajulzairi Tajuddin earned a side income of close to RM3,000 a month with a clientele of more than 100 people


Tajulzairi Tajuddin, who earned a side income of close to RM3,000 a month with a clientele of more than 100 people, was fined RM30,000 in default of six months' jail after he pleaded guilty at the Klang Sessions Court Thursday.

Tajulzairi pleaded guilty to committing the offence at Level 1, Content Control Department in the Malaysian Communications and Multimedia Commission, off Persiaran Multimedia in Cyberjaya at 5pm on June 10, 2009.

He admitted to using the Internet with the IP address 112.137.163.108 via <http://www.wanitamelayu2u.com/login> to post pornographic materials for commercial use.

According to the statement of the facts, an agent provocateur from MCMC registered his name through the website as a VIP member for six months with a RM30 fee.


1. Economic Growth & Development**2. Protection of National Values****3. Domestic Cyber Security****4. Regional Cyber Security Cooperation**



GUIDING PRINCIPLES – DOMESTIC CYBER SECURITY


States must assume responsibility to enhance the security of the information technologies

The strengthening of domestic cyber security by each State is of utmost importance to avoid from becoming the breeding ground for cyber criminals



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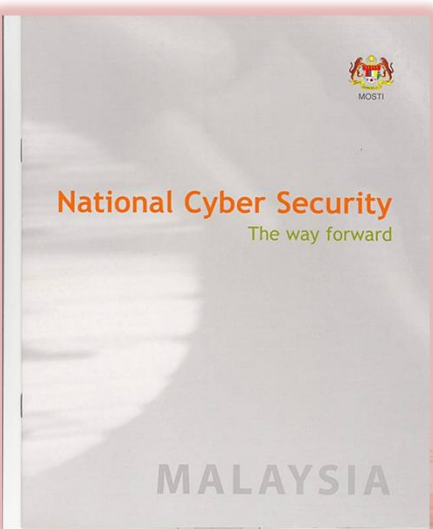
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MALAYSIA' S NATIONAL CYBER SECURITY POLICY

The NCSP is one of the most important measures taken by Malaysia to secure its cyberspace

**Malaysia
e-Sovereignty
Foundation**

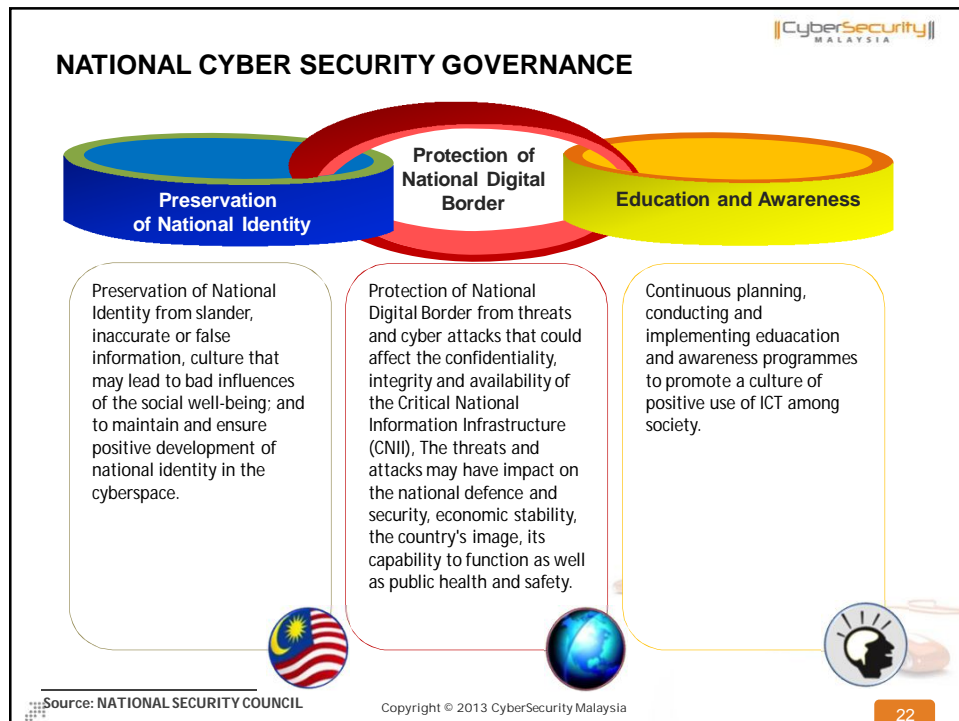
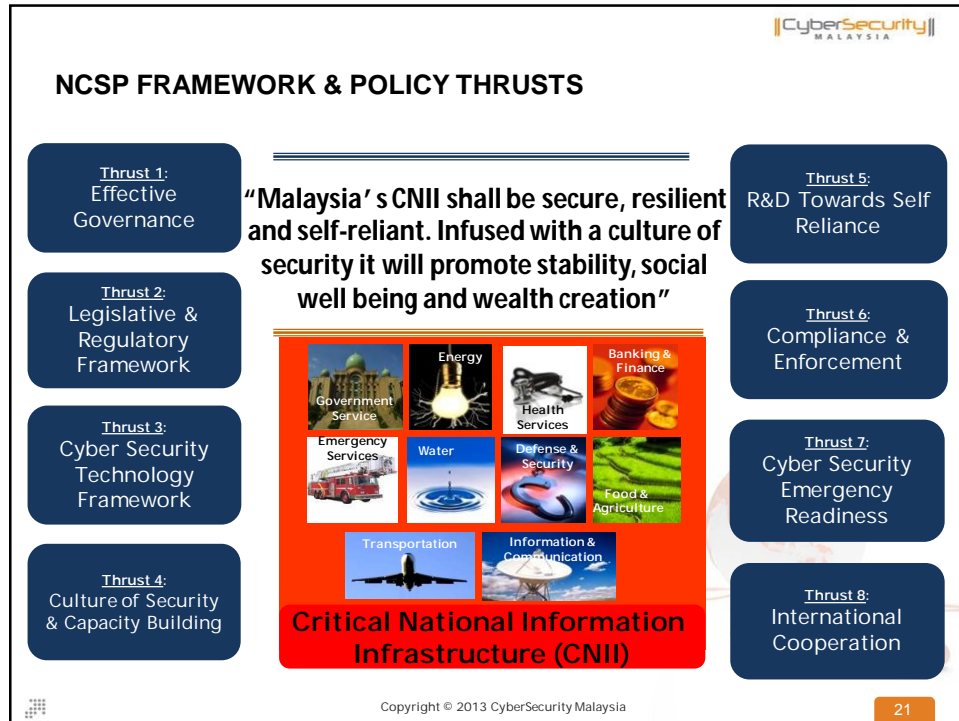



National Cyber Security
The way forward

MALAYSIA

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GUIDING PRINCIPLES – REGIONAL CYBER SECURITY COOPERATION

Cyber crimes are transnational in nature yet each State's laws are confined within its geographical boundaries


Cooperation among States is important to facilitate cross border investigation and prosecution as cyber criminals are collaborating and sharing resources to commit crimes

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MALAYSIA

COLLABORATION AMONG ANONYMOUS HACKTIVISTS TO ATTACK MALAYSIA'S CYBERSPACE



Bernama.com
General
June 16, 2011 17:42 PM

Government Takes A Serious View On Hackers' Issue - Muhyiddin

KUALA LUMPUR, June 16 (Bernama) — Attacks by hackers on several official government websites all have a significant effect on the information, communication and technology (ICT) system for the people, said Deputy Prime Minister Tan Sri Muhyiddin Yassin.

He said the government took a serious view on the attacks and was awaiting a report from the Malaysian Communications and Multimedia Commission (MCMC) on the matter.

"We will wait for the report on how the matter is to be tackled and hope that such action will not continue. We must pay attention and the responsible party, the MCMC, is now monitoring the matter," he told reporters after launching the Asian Heritage Day 2011 celebrations and Communication to Behavioural Impact (COMBI) at the national level, here Thursday.

He disclosed this when asked to comment on several websites in the country that had been hacked by a group called 'Anonymous', who claimed to be based abroad, and threatening the government's official portal, www.malaysia.gov.my.


The group took such action as they claimed that Malaysia blocked human rights by imposing obstacle not only on the internet but also on film and television broadcasts.

Muhyiddin said the government gave its assurance that its policy of not vetting the internet would continue to be implemented.

But if there are anyone the right and power to...

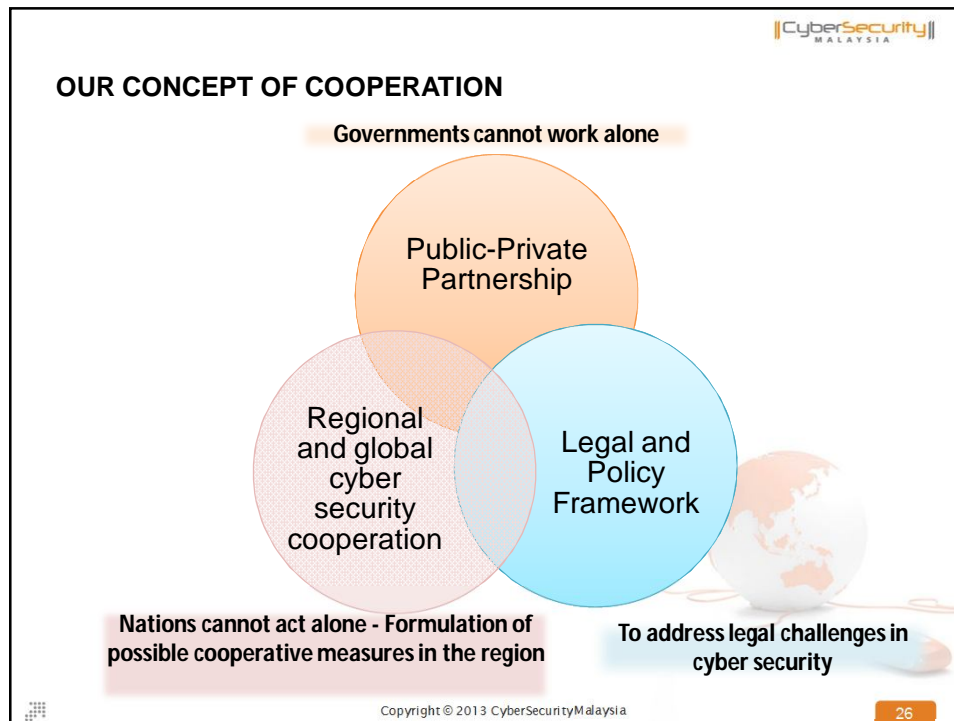
**"Ops Malaysia" –
Malaysian websites were attacked
(June 2011)**

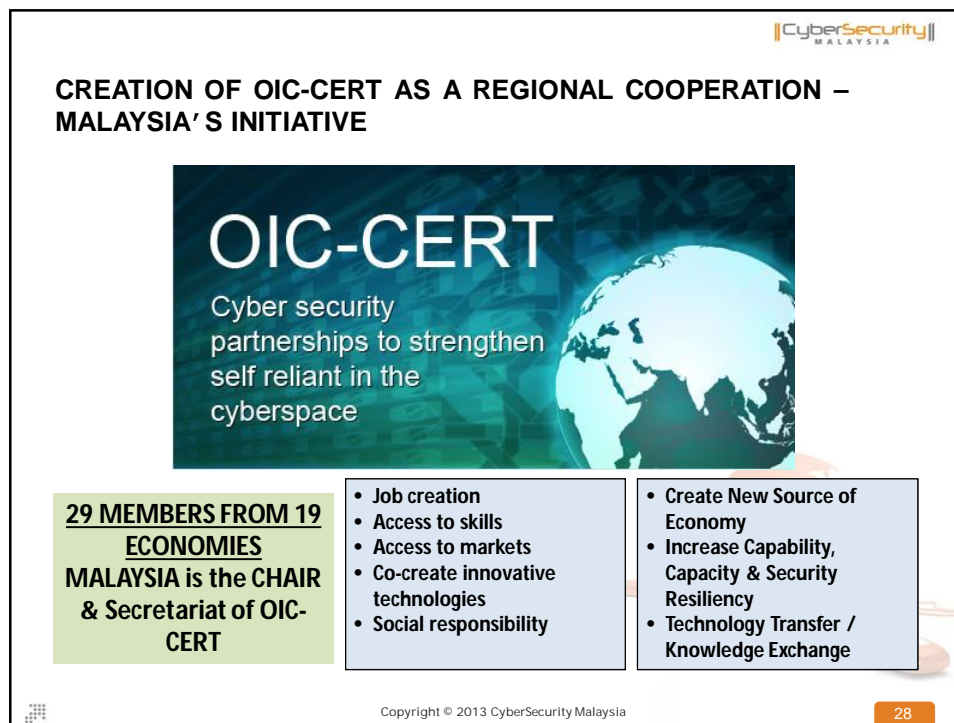
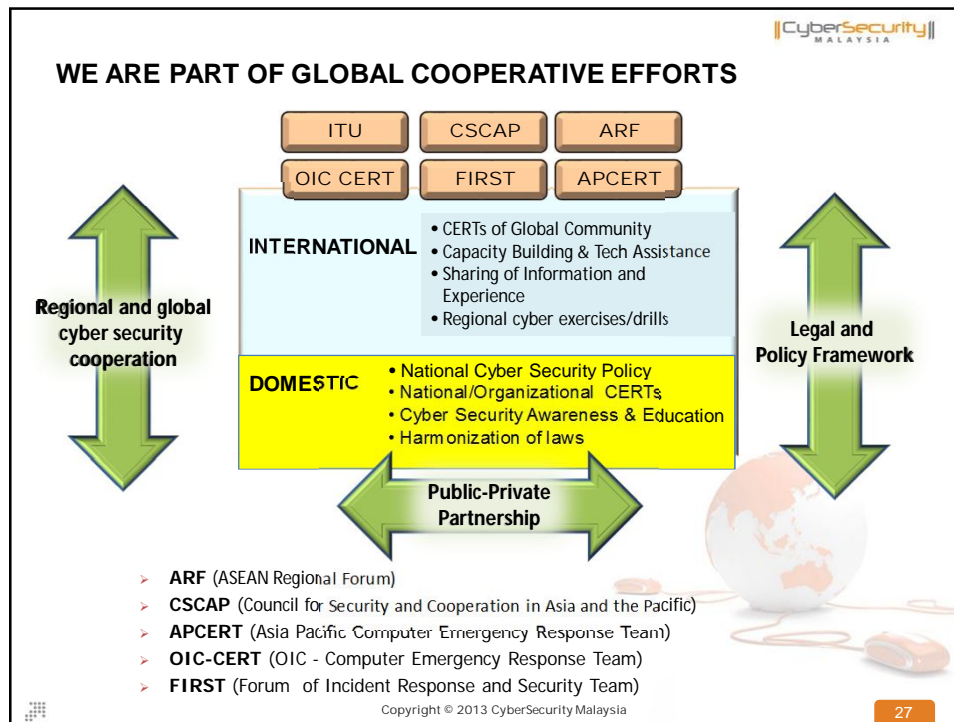
Anonymous hackers announced to launch cyber attacks on Government Websites with codename "Op Malaysia"



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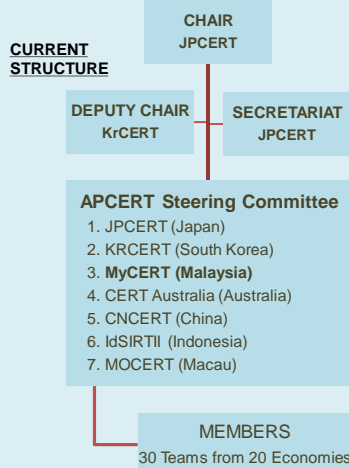
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ASIA PACIFIC COMPUTER EMERGENCY RESPONSE TEAM (APCERT)

- Established in 2009
- CyberSecurity Malaysia is one of co-founders
- 2007 – Elected as Chair of APCERT
- Elected as Steering Committee since inception.



CyberSecurity Malaysia's Participation

APCERT WORKING GROUPS

- i. Information Sharing WG
- ii. Membership WG
- iii. Operational Framework WG

DESIGNATED TASK AS SC MEMBER

- Lead Outreach & Liaison initiatives

APCERT WIKI PAGE

- Developed and maintain APCERT Wiki
- An interactive one stop center for information sharing for APCERT members.

APCERT Cyber Drill

- Provide IRC channel for members to communicate during the exercise
- Responsible as Exercise Controller (EXCON) and scenario contributor
- Participate in every exercise conducted by APCERT

STUDY CALL

- Information sharing session done through online platform

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APCERT DRILL 2012 & 2013 – EXAMPLE OF INTERNATIONAL COLLABORATION



Source: Secretariat, APCERT / JPCERT-CC

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RECOMMENDATIONS FOR WAY FORWARD

States should address the concerns in the areas of:

- economic growth & development
- protection of national values
- domestic cyber security
- regional cyber security cooperation

States should engage in:

- information sharing
- knowledge transfer
- technical and non-technical assistance

Thank you

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