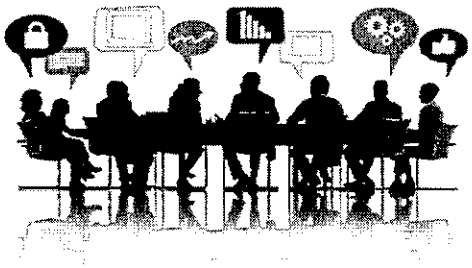
Cyber Risk Working Group Q4 2018 ("CRWG")



13 December 2018

Meeting Agenda

Cyber Risk Working Group (Q3,2018)

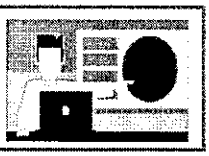
- Confirmation of previous minutes of meeting
- Update on the matters arising

Cyber Risk Working Group (Q4, 2018)

- Results of the Capital Market Cyber Drill Simulation
- Second Phase assessment

Presentation from FireEye

- Compromise Assessment & Outlook of 2019



Questions & Answers

CRWG (Q3, 2018)

- **Confirmation of previous MoM**
- **Update on matters arising**

Cyber Risk Working Group (Q3, 2018)

Previous Minutes of Meeting

- MoM distribution & request for upcoming discussion topic – **17 Oct 2018**
- Follow up on discussion topic – **30 Nov 2018**
- Minor adjustments received from the group on the MoM and no comments received for the discussion topic.

Matters Arising

1. **Industry View on Cloud Services**
   - SC stresses that cloud services will need to be protected by the organisation, and not only rely on the cloud service provider.
   - The customer content, application, operating system, network and security configuration management of the cloud services are required to be protected and managed by the organisation, and not the cloud service provider.
2. **Platform for Cyber Reporting (PCR)**
   - Bursa Malaysia Berhad had established BM-CERT.
   - SC encouraged to share any information that could benefit the capital market, including incidents occurred outside of Malaysia. Information sharing is a move to improve the maturity level in managing cyber risk.

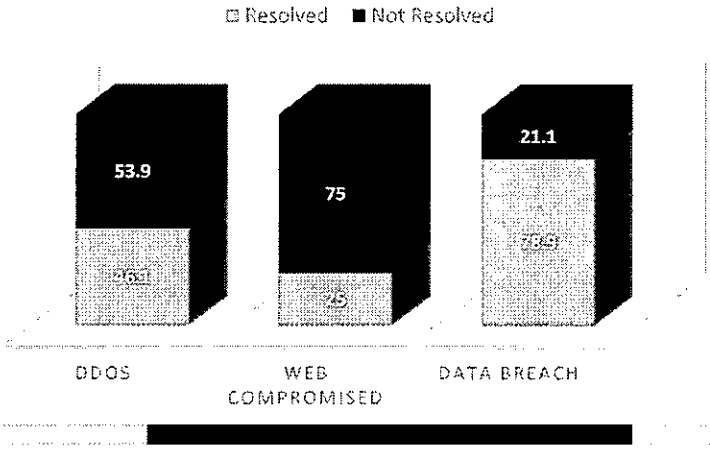
Matters Arising

3. **Capital Market Cyber Drill Simulation 2018**
   - Concerns raised on training provided for the Cyber Drill seems to be insufficient. SC suggested to intermediaries to contact CyberSecurity Malaysia (CSM) or other training provider to attend technical training.
   - SC highlighted on the objectives of the Capital Market Cyber Drill Simulation 2018 is to enable the entities to respond and recover from cyber attacks, and also to identify gaps in the organisation's procedure adherence and technical capability.
4. **Data management**
   - Data management findings were shared and there is a request for breaking down the findings based on the each entity. SC responded that the break down is not possible as the exercise was not meant for name shaming.

Cyber Risk Working Group Q4 2018

Results

- Detailed results of the Capital Market Cyber Drill Simulation have been shared to all participants on the 19th Nov.
- Overall assessment percentage is 46.1% with calculations based on both technical capabilities and procedure adherence.
- Better respond and recovery capabilities demonstrated for Data Breach scenario, however less were demonstrated for Web Compromised scenario. This indicates an overall low scoring on the technical capabilities as the Web Compromised scenario is more technical in nature.



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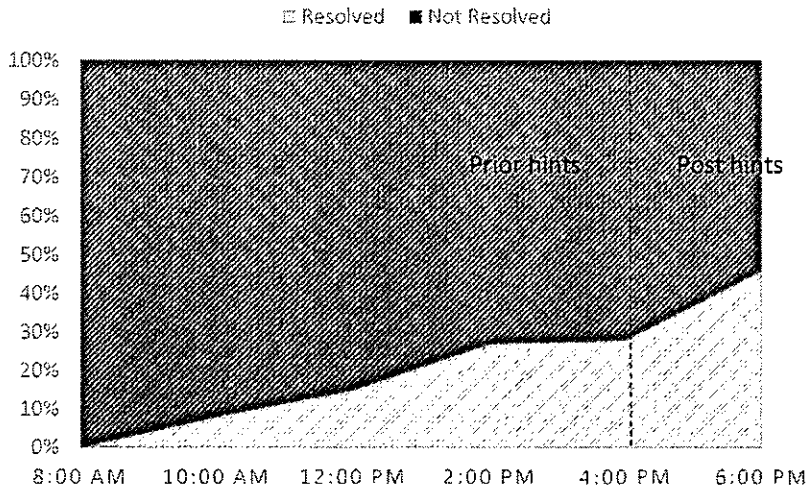
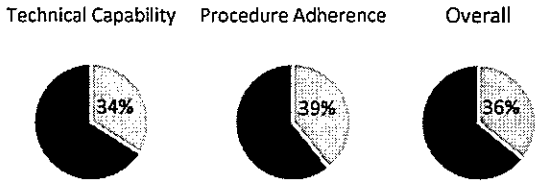
Observations

- Our analysis shows that there are significant improvements only after hints were provided by the SC CERT / NACSA after 4:00 PM on Cyber Drill Day.
- Hints comprised of both technical advisory and threat intelligence report.

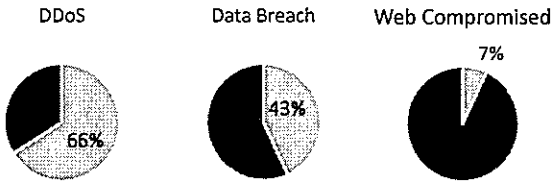


Brokers

By 12 Core assessments:



By 3 scenarios:



- Majority of the Brokers belong to the Third and Fourth 25 Percentile group.
- Better results than 66% were expected from the Brokers on the DDoS scenario due to past incidents occurred.
- Lacking of details on the incident tickets and email responses were not meeting the Core EPA requirements.
- Strict adherence to each respective Brokers' Standard Operating Procedure, however they were not meeting the Core assessments' requirements.
- Technical Capability results is low for a big majority of the Brokers.

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Follow up

- The SC received a number of calls and emails to seek clarifications and requesting for more details after the results have been shared.
- The SC plans to host a Capital Market Cyber Drill Simulation's Assessments Briefing session on January 2019 to provide a detailed briefing on the 12 Core assessments.
- For organisations who are grouped in the Third and Fourth 25 Percentile, we strongly encourage all of them to attend the briefing.
- The following is the agenda for the Assessments Briefing:-
  - Detailed walkthrough for all assessments
  - Elaborate on all of the Expected Player Actions (EPAs) for all 3 scenarios
  - Questions and Answers

Next year in 2019

- The SC plans to organise the second Capital Market Cyber Drill Simulation in 2019.
- We will provide more updates after we have confirmed the participants and the scope.

Cyber Security Assessments

Assessment to comply to SC Guidelines of Management on Cyber Risk

First Phase

- Completed Phase I for a total of selected entities in 2017
- Completed the Data Management self assessment for selected entities.

Second Phase

- Letter of assessment for entities identified to comply with SC Guidelines of Management on Cyber Risk in Phase II has been sent
- A number of 108 entities are subjected to respond

Third Phase

- The Final Phase III assessment will be conducted in 2019.

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Compromise Assessment & Cyber Outlook for 2019 by

FireEye™

Questions and Answers