**Telecommunication
Development Bureau (BDT)**

Ref.   BDT/IEE/CYB/DM/421   31 March 2014

- Administrations of ITU Member States of the
AMS region
- ITU-D Members of the AMS region
- Regional and International Organizations

**Subject: Second Cyberdrill for Applied Learning for Emergency Response Team, Lima (Peru),
23-25 June 2014**

Dear Sir/Madam,

We are pleased to invite you to participate in the second **Cyberdrill for Applied Learning for Emergency
Response Team (ALERT)** which will be held from 23 to 25 June 2014 in Lima, Peru, at the kind invitation of
INICTEL UNI and with the support of the Transport and Communications Ministry of Peru. The attached
annex contains detailed information on ITU-IMPACT ALERT.

The workshop is organized by the ITU, within the framework of ITU-IMPACT endeavor (International
Multilateral Partnership Against Cyber Threats).

The participation of three to four experts on Cybersecurity from your National Computer Incident Response
Team (CIRT) is highly recommended. The objective of this Cyberdrill is to enhance communication, team
work, and participating teams' incident response capabilities to ensure continued collective efforts against
cyber threats through the CIRTs of the region.

Registration will be done exclusively via on-line form **not later than 9 June 2014**. Participants concerned are
strongly advised to take care, as early as possible, of your entry visa to Peru as the approval procedure
could take some days and you may be requested to present, to the Peruvian Embassy/Consulate in your
country, an invitation letter from the host INICTEL UNI.

Should you require any further information, please contact Mr Pablo Palacios (ITU Area Office Chile, Pablo.Palacios@itu.int, phone numbers: +56 2 2632 6134 I +56 2 2632 6147).

Yours faithfully,

Brahima Sanou
Director

Annex: Information on ITU-IMPACT ALERT

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Background

International Telecommunication Union (ITU) and International Multilateral Partnership Against Cyber Threats (IMPACT) will be organising collectively the second cyber drill named "ITU-IMPACT ALERT" (Applied Learning for Emergency Response Team). In 2008, IMPACT signed a Memorandum of Understanding with ITU to operationalize its Global Cybersecurity Agenda (GCA). As part of the agenda, fostering international cooperation through specific programmes such as coordinated Cyberdrill exercises between countries is essential. The purpose of this simulation is to enhance the communication and participating teams' incident response capabilities. Besides maintaining and strengthening the national and international cooperation between countries in ensuring continued collective effort against cyber threats.

Drill Execution

The cyber drill exercise will be based on a fictitious scenario to gauge the CERT incident handling capability. The exercise is structured around a scenario that included several incidents involving the most common types of attacks. The attack details will be sent by the ITU-IMPACT Expert Team recognised as "organiser" to the participants in the form of e-mails. The participant needs to perform their investigation/analysis on the incident and come out with the mitigation solution. The participant is required to submit the solution in the advisory report format back to the organiser email.

Steps

1. The drill scenario commences with all participating teams receiving an email from the **organiser** on an incident
2. The email will contain:
   a. Scenario
   b. Advisory report template
3. Drill **players** need to perform analysis on the incident and come out with the mitigation solution
4. Drill **observers** in the team can assist the main drill player in performing the incident analysis
5. **Participants** need to submit the mitigation solution or recommendation based on the given advisory report template back to the organiser via email
6. **Organiser** will then send an acknowledgement of the email to the participants.
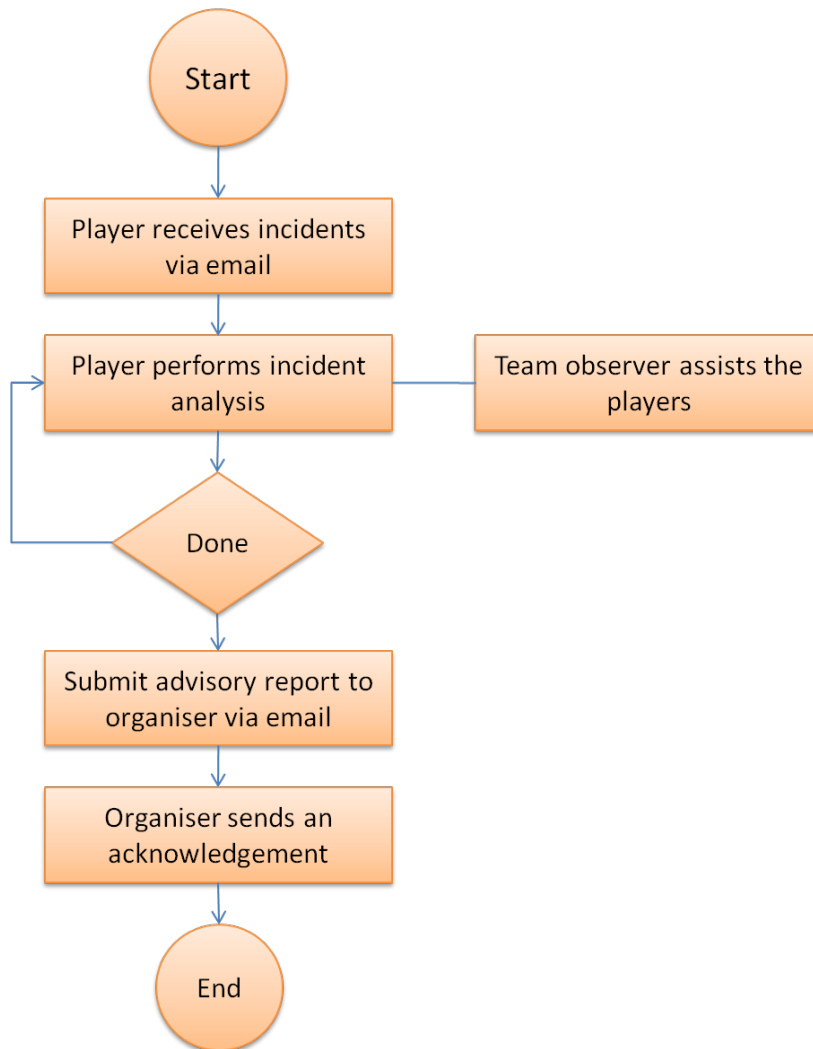
Start

Player receives incidents via email

Player performs incident analysis

Team observer assists the players

Done

Submit advisory report to organiser via email

Organiser sends an acknowledgement

End

Figure 1: Drill Execution Flowchart

Drill – Do's and Don'ts

Do's

- Participants can use their own software tools
- Participants can use Google or any other reference website to search for information
- Participants can communicate with other participant teams via IRC channel
- Participants can seek assistance from the organiser via IRC channel

Don'ts

- No malicious activity is allowed that can cause harm to the network such as Scanning, Sniffing, DOS or any attempt to attack the drill infrastructure (e.g. IRC Server, Web Server)
- No misuse of internet is allowed

Drill Communications

| Mail Server	All formal communications between the organiser and participants will go through this mail server
IRC Server	Will be used for: • Informal communication between organiser, participants and observer • Channel for participants to ask questions or tips on the scenario • A quick notification purpose from the organiser • Collaborate with other participating CIRT teams as well as the organiser
DNS Server	Local DNS server for IMPACT-ALERT.NET domain

Drill Setup
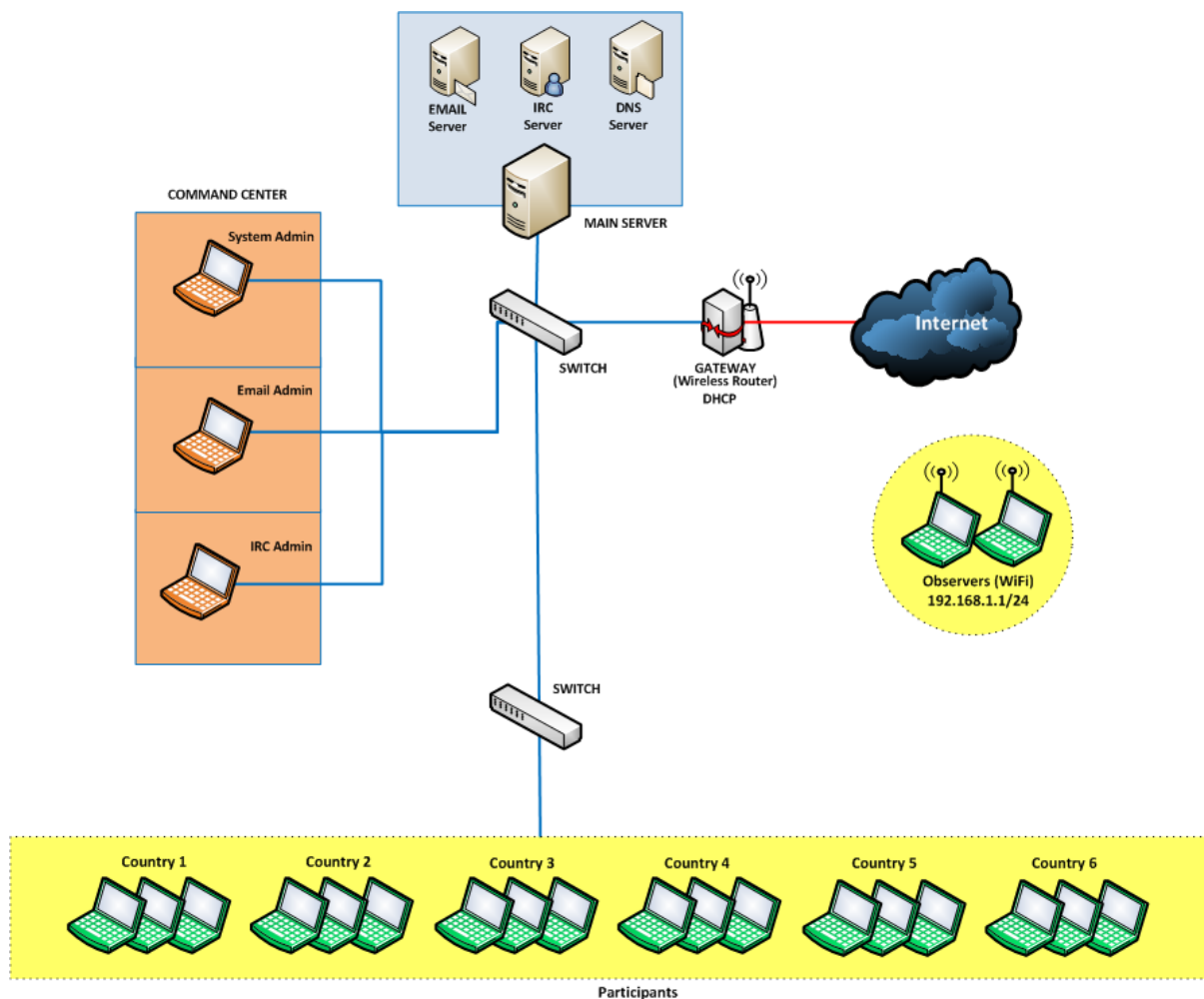
Figure 2: Drill Set Up

Participants – Roles & Responsibilities

Player	• Perform incident analysis on the scenario and send mitigation solution or recommendation based on the given advisory report template back to the organiser
Observer	• Observe and assist the players in his team during the drill

Organiser – Roles & Responsibilities

Drill Director	• Overall co-ordination with the drill experts and participating countries
Drill Facilitator	• Manage the cyber drill by co-ordinating the activities of the drill experts and participating countries • Assist participants during the cyber drill • Guide the teams through the scenarios during deployment for the cyber drill • Present summary of the cyber drill to participants
Drill Manager	• Drill administration and coordination for the cyber drill • Assist participants during the cyber drill
System Administrator	• In charge of servers and virtual machines for the cyber drill • Manage the deployment of scenarios to all the participants • Manage and contain the drill activities on the infrastructure provided to the participants • Assist participants during the cyber drill
Mail Administrator	• In charge of email communications for the cyber drill • Help co-ordinate the activities of the participants for the duration of the drill through e-mail communications • Introduce additional scenario elements through e-mail communications during the entire drill • Capture salient points for post drill summation and analysis. • Assist participants during the cyber drill
IRC Administrator	• In charge of IRC communication channel for the cyber drill. • Communicate and co-ordinate the activities of the drill participants to reach a conclusion on the scenarios provided. • Manage scenarios presented during the drill. • Capture salient points for post drill summation and analysis. • Assist participants during the cyber drill
IT and Technical Support	• To develop and support IT infrastructure which involves setting up and dismantling the cyber drill environment for the hardware, software and operating systems • Provide troubleshooting, security and management of all network devices, servers and infrastructure • Assist participants during the cyber drill

Pre-Requisite for Participants

The cyber drill participants are required to bring their own notebooks.

Hardware/Software requirements:

- Notebook with minimum 2GB RAM and wireless card
- Operating system running on Windows XP and above
- Latest web browser (IE, Firefox or Chrome) with flash and Java installed
- Word processing application (MS Words, OpenOffice, AbiWord, etc.)

It is recommended that the participants should have knowledge in the following areas:

- Information gathering
- Log analysis
- Packet analysis

The participants also should be familiar with the following tools:

- Wireshark
- UNIX command

Each participating team must have a minimum of two (2) and a maximum of three (3) representatives to participate in the drill.

Post Drill Activities

All participating teams are to submit a feedback of the drill to the organiser. The feedback form will be provided by the organiser.

The organiser will consolidate the feedback and prepare a post-mortem report. An executive summary report will also be submitted to ITU-IMPACT for reporting purposes.

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