ITU- Arab Regional Cyber Security Center’s Activities & Regional Threats landscape

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HEAD OF ITU-ARAB REGIONAL CYBER SECURITY CENTER
DG OF OMAN NATIONAL CERT
Dar es Salaam – November - 2017
<table>
<thead>
<tr>
<th>Cybersecurity Strategy and Governance</th>
<th>Cybersecurity Assurance &amp; Compliance</th>
<th>Technical Services and Information Sharing</th>
<th>Computer Incident Response</th>
<th>Cybersecurity Capacity Building</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Cybersecurity Strategy</td>
<td>ISMS Implementation</td>
<td>Threats and Notifications Alert Service (TNAS)</td>
<td>CIRT Assessment</td>
<td>Specialized Training</td>
</tr>
<tr>
<td>Critical National Information</td>
<td>ISMS Gap Analysis</td>
<td></td>
<td>CIRT Implementation</td>
<td>Workshops, Conferences, Seminars</td>
</tr>
<tr>
<td>Infrastructure Protection</td>
<td>Cybersecurity assessment</td>
<td></td>
<td>CIRT Gap Analysis</td>
<td>Cybersecurity Scholarships</td>
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<tr>
<td>National Public Key Infrastructure</td>
<td></td>
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<td>High level briefing and awareness</td>
</tr>
<tr>
<td>Child Online Protection Framework</td>
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<td></td>
<td>Exercises and Competitions</td>
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<tr>
<td></td>
<td></td>
<td></td>
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<td>Cyber drills</td>
</tr>
</tbody>
</table>
2014
April- Malware Analysis Workshop (Oman)
April- Incident Handling and Response Workshop (Oman)
June- ISMS: Implementing ISO /IEC 27001:2013 workshop (Yemen)
September- Cybersecurity Management Workshop (Comoros)
December- Promoting safer cyber space in the Arab region with ESCWA (Oman)

December- Cybersecurity Management Workshop (Mauritania)

2015
September- Cairo Security Camp 2015 workshop (Egypt)
October- ITU Regional Strategy COP Workshop (Egypt)
November- Security & Data Protection On the cloud workshop (Tunis)
November- Cybersecurity Management Workshop for LDC (Djibouti)

2016
October- Managing Justice Electronically (UAE)
November- FIRST Arabic and African Regional Symposium (Egypt)

2017
Jan – protecting oil and gas industrial infrastructure from emerging cyber threats
May: Cyber security War, Oman
Workshops 20
Conferences & Summits 20

2013
March - Arab Regional Cybersecurity Summit- Oman
October- GITEX Dubai- UAE
November- ITU Telecom World- Thailand

2014
April- Arab regional cyber security Summit- Oman
April- COMEX- Oman
June- Cybersecurity Trends Conference- Yemen

2015
March- Regional Cyber Security Summit- Oman
April\May - COMEX- Oman
June- International Law and State Behavior in Cyberspace Series Eurasia Regional Seminar- Oman
September- Middle East Cybersecurity Conference & Exhibition- Oman
November- The 3rd Cyber Security for Energy & Utilities Oman conference- Oman
December- Arab days of cyber-security: Prospect of cooperation for protecting Cyberspace seminar- Lebanon
December- Cyber Terrorism Seminar- Egypt

2016
May- Cyber security seminar-Morocco
October – Regional Cybersecurity Summit - Egypt

2017
March ; applications of modern technologies in arab countries : challenges and trends , Lebanon
March : Comex Exhibition - Oman
Sep : tenth cyber defense summit, UAE
Sep : Arab security conference , Egypt
Sep : 11th Cyber Defense summit , Qatar
2014
August- CIRT Assessment Workshop - Palestine
August- CIRT Assessment Workshop - Jordan
September- CIRT Assessment Workshop - Comoros

2017
August- CIRT Assessment Workshop - Yemen
2013

September: CIRT Train the Trainer - Oman

2014

November: Ethical Hacking Training - Mauritania

December: Network Traffic & Packet Analysis training - Oman

2015

January: Penetration Testing Training - Oman

November: Ethical Hacking Training - Djibouti

2016

May: CIRT Training - Technical Track – Tunis

May: CIRT Training – Management Track - Tunis

August: ISO/IEC 27001:2013 ISMS implementation - Oman

2017

March: Ec Council Camp for technical, Qatar

March: Ec Council Camp for Management, Qatar

April: Certified Security Computer User, Muscat

May: Web security attacks and solutions, Muscat

May: Web security attacks and solutions, Djibouti

May: Vulnerability Assessment and pen testing, Djibouti

July: Penetration testing, Oman
2013
October - Regional Cyber Drill - Oman

2014
November - COP challenge - Bahrain

2015
March - Cybersecurity Regional Innovation Program Exercise - Oman
April - May - Regional Cyber Drill - Egypt

2016
May - Regional Cyber Drill - Tunisia

2017
March - regional cyber Drill - Qatar
Oct - National Cyber Drill - Oman
Nov - National Cyber Security CTF competition - Oman
2013
October- COP strategy workshop- Oman

2014
September- COP Strategy Workshop-Bahrain
EC-COUNCIL SECURITY ONLINE TRAININGS & EXAMS
70 CYBER SECURITY ACTIVITIES
70 Cyber Security Scholarships
Oman’s & ITU-RCC Cyber Drills

- National Drills
- Regional Drills
- International Drills
Oman’s National Drills

• No. of Participated Organizations: 45
• No. of Players: 11

Scenarios

• Government website hacking
• Government staff e-mail hacking via phishing
• Malware and viruses
Oman’s National Drills

- No. of Participated Organizations: 17
- No. of Players: 36

Scenarios

- Malware Analysis
- Web defacement
Oman’s National Drills

No. of Participated Organizations: 27
No. of Players: 100

Scenarios

• Data ex filtration analysis
• web defacement
• Windows Forensics
• Linux hardening
Oman’s National Drills

- No. of Participated Organizations: 34
- No. of Players: 68

Scenarios
- Malware / Ransomware Analysis
- Network defacement
- Digital Forensics - windows OS
- Data Leakage
- Website attacks (CTF)
- Table top Exercise
• Regional Cyber drill – Oman
• No of participated countries : 13
• Regional Cyber drill - Egypt
• No of participated countries : 9

2015
• Regional Cyber drill - Tunis
• No of participated countries : 10

2016
• Regional Cyber drill - Qatar
• No of participated countries: 16
International Drills

APCERT Drills
2013-2017

OIC-CERT Drills
2012-2017
Oman’s Capture The Flag (CTF) Competition

The Largest Cyber Security Competition in the Middle East

Compete to be One of the Top Cyber Talents in Oman

For Registration:
www.cybertalents.com

Host by

Organized By

Strategic Partner

Local Organizing Partner

Supporting Partner

www.cybertalents.com support@cybertalents.com
Arab Region : Cyber Security Threat
Cybersecurity threats
In the countries of the Middle East, Africa and Turkey

Online detections
% of users affected by online threats

Ref : Kaspersky Security Network (KSN) statistics for the first quarter of 2017
The highest numbers of web threat incidents were reported in:

- Algeria (38.1%)
- Tunisia (32.4%)
- Morocco (26.1%)
- Egypt (23.5%)

The countries experiencing most threats were:

- Qatar (29.7%),
- Saudi Arabia (24.2%)
- UAE (23.6%)

The number of ransomware notifications in the region increased 36% compared to the first quarter of 2016

Ref: Kaspersky Security Network (KSN) statistics for the first quarter of 2017
### Figure 6.1: Average pillar scores by region

<table>
<thead>
<tr>
<th>Region</th>
<th>Legal</th>
<th>Technical</th>
<th>Organizational</th>
<th>Capacity Building</th>
<th>Cooperation</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFR</td>
<td>0.29</td>
<td>0.18</td>
<td>0.16</td>
<td>0.17</td>
<td>0.25</td>
</tr>
<tr>
<td>AMS</td>
<td>0.40</td>
<td>0.30</td>
<td>0.24</td>
<td>0.28</td>
<td>0.26</td>
</tr>
<tr>
<td>ARB</td>
<td>0.44</td>
<td>0.33</td>
<td>0.27</td>
<td>0.34</td>
<td>0.29</td>
</tr>
<tr>
<td>ASP</td>
<td>0.43</td>
<td>0.38</td>
<td>0.31</td>
<td>0.34</td>
<td>0.39</td>
</tr>
<tr>
<td>CIS</td>
<td>0.58</td>
<td>0.42</td>
<td>0.37</td>
<td>0.38</td>
<td>0.40</td>
</tr>
<tr>
<td>EUR</td>
<td>0.61</td>
<td>0.60</td>
<td>0.45</td>
<td>0.49</td>
<td>0.46</td>
</tr>
</tbody>
</table>

Ref: ITU GCI Report 2017
## Confirmed Projects in Pipeline 2017

<table>
<thead>
<tr>
<th>No.</th>
<th>Country</th>
<th>Organisation</th>
<th>Project</th>
<th>Propose Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tanzania</td>
<td>ITU-FIRST</td>
<td>Africa and Arab symposium and Cyber Drill</td>
<td>13-17 Nov 2017</td>
</tr>
<tr>
<td>2</td>
<td>Oman</td>
<td>ARCC</td>
<td>ACCT Fifth High Level Meeting</td>
<td>19-Nov-17</td>
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<tr>
<td>3</td>
<td>Oman</td>
<td>OCERT</td>
<td>Regional Cybersecurity Summit 2017</td>
<td>20-21 Nov 2017</td>
</tr>
<tr>
<td>4</td>
<td>UAE</td>
<td>EC-Council</td>
<td>2nd Edition Fintech Security Conference 2017</td>
<td>7-Dec-17</td>
</tr>
<tr>
<td>5</td>
<td>Oman</td>
<td>ITU-T</td>
<td>ITU-T Group 17 Meeting</td>
<td>10-Dec-17</td>
</tr>
<tr>
<td>6</td>
<td>Oman</td>
<td>Chatham house</td>
<td>Cyber Security of the Sustainable Energy Sector in the GCC</td>
<td>11-Dec-17</td>
</tr>
<tr>
<td>7</td>
<td>Arab</td>
<td>ARCC</td>
<td>Regional Cybersecurity Innovation Program</td>
<td>December 17</td>
</tr>
<tr>
<td>8</td>
<td>Egypt</td>
<td>ARCC</td>
<td>Regional Cyber Security CTF Competition</td>
<td>15-16 Dec 2017</td>
</tr>
<tr>
<td>10</td>
<td>Oman</td>
<td>OCERT</td>
<td>Security Policy and Procedures Training</td>
<td>17- 19 Dec 2017</td>
</tr>
</tbody>
</table>
THANK YOU