A ROLE-REVERSAL LEARNING APPROACH TO LOW-LEVEL SECURITY TRAINING
ABOUT ME

• SARAH MÜHLEMANN

• COMPUTER SCIENCE BACHELOR STUDENT SINCE SEPTEMBER

• SPYPI
<table>
<thead>
<tr>
<th>WHY SPYPI?</th>
<th>INCREASED NEED FOR SECURITY AWARENESS RAISING</th>
<th>LIMITED ACCESS</th>
<th>EVERYONE SHOULD BE INFORMED</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
</tbody>
</table>

PRIVATE LIFE

JOB

VOTE

DEBATE
IT’S MORE ENJOYABLE AND EFFICIENT TO LEARN FROM SUCCESSES RATHER THAN FAILURES!
ROLE-REVERSAL LEARNING (RRL)

USERS

DATA COLLECTORS

SOCIAL ENGINEERS

BLACK HAT HACKERS
CONCEPT & DESIGN
TWITTER DATA MINER
IoT LIGHT BULB HACKING
MITM PROXY
SENTIMENT ANALYSIS
SMS SPOOFING
NOT SAM

Sender ID: +41 79 999 99 99

SAM

Sender ID: + 41 79 999 99 99

JOHN

SAM

Today 2:00am

- F*** YOU!
- What's wrong with you?!
- What r u talking about?!
Angaben ohne Gewähr. Stand: 20.11.18 21:00

Ihre Kosten in der laufenden Rechnungsperiode Oktober-November für Abos, Optionen...

Angaben ohne Gewähr. Stand: 20.11.18 21:00
WHAT I’VE LEARNED FROM APPLYING RRL

- Understand your audience, their interests and needs
- Provide tools and a complete experience
- Create a relaxed atmosphere
- There is a fine line between fun and silly
- Try it before overthinking it
- Technologies aren’t necessary but can make the implementation of these activities easier
PROS AND CONS OF RRL

- Helps to create a positive experience
- No more “chalk-and-talk” - teaching and less technical jargon needed
- Helps people overcome the fear of making mistakes

- Depending on the concept it can be time-consuming & difficult to maintain
- Potential issues with software dependencies
- A successful implementation of such activities requires an overall understanding of the participants
THANK YOU!

WEBSITE: https://spypi.org
WIRE: sarah314
E-MAIL: spypi@spypi.ch

GREAT PAPER ABOUT RRL

PICTURE SOURCES:
Slide [7] theglobeandmail.com, istock.com
Slide[8] shutterstock.com, me.me, wallpaperswide.com
Slide[12] me.me