Security Workshop Introduction

APRICOT 2019 / Daejeon, Korea

2019.02.18-22

Introductions

- Bhumika Sapkota - Classic Tech Pvt Ltd, Nepal

- Cristel Pelsser - Uni Strasbourg, France

- Keiichi Shima - Internet Initiative Japan, Japan

- Patrick Okui - Network Startup Resource Center, Uganda

- Randy Bush - Internet Initiative Japan, Japan/US

Introduce Yourself Loudly, Please

- Your Name

- Country / City

- Where do you work?

- ISP, Enterprise, Government, …?

- What you do: SysAdmin, Programmer, …?

Logistics

- Timing
  - 09:00-10:30 – Session 1
  - 10:30-11:00 - Tea
  - 11:00-12:30 – Session 2
  - 12:30-13:30 - Lunch
  - 13:30-15:00 – Session 3
  - 15:00-15:30 - Tea
  - 15:30-17:00 – Session 4

- Transport – You are on Your Own

- Administrative Support

Security

- Please be responsible for your own items. It is recommended you do not leave valuable items in the classrooms

- This is a security workshop, you should secure your kit, phone, ...

- Someone could play a prank (joke) on you to teach you to think about security

In Other Workshops, We Circulate a USB Stick with the Presentations
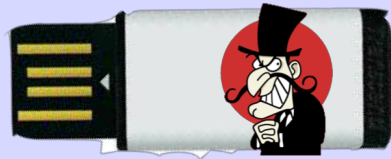
But we do NOT Exchange USBs in a Security Workshop

Agenda and Download Presos

https://github.com/randyqx/apricot-sec2019

Software is at

https://psg.com/a2019-sw/

Agenda – Day 1

- Introduction 👉 we are here

- Assets and Threat Models

- Social Engineering, and Who to Trust

- Cryptography

- PGP Introduction & Lab

Agenda – Day 2

- SSH & SSH Lab

- WireShark

- VPNs, IPsec, & TLS

- OpenVPN and pfSense

Agenda – Day 3

- Network Infrastructure
  - Routers & Switches
  - Filtering
  - Configuration & Archiving

- Sick Host Detection

- Logging and Monitoring

- Anomaly Detection & Firewalls

- IDS / Snort

Agenda – Day 4

- DNS

- Protecting Hosts

- Virus, Mail, and Browsing

  - Anti-Virus

  - Safe Mail Practices

  - Safe Browsing Practices

- Inter-Host Protocols

  - Personal and File Encryption

  - Secure File Transfer

  - Covert Channels

Agenda – Day 5

- Inter-Network Cooperation
- Overflow from previous days

Materials

https://github.com/randyqx/apricot-sec2019

WiFi

SSID is APRICOT

Password is wireless

Don't Abuse the Network