CDSE Center for Development of Security Excellence

The Top 10 Cybersecurity incidents of 2017

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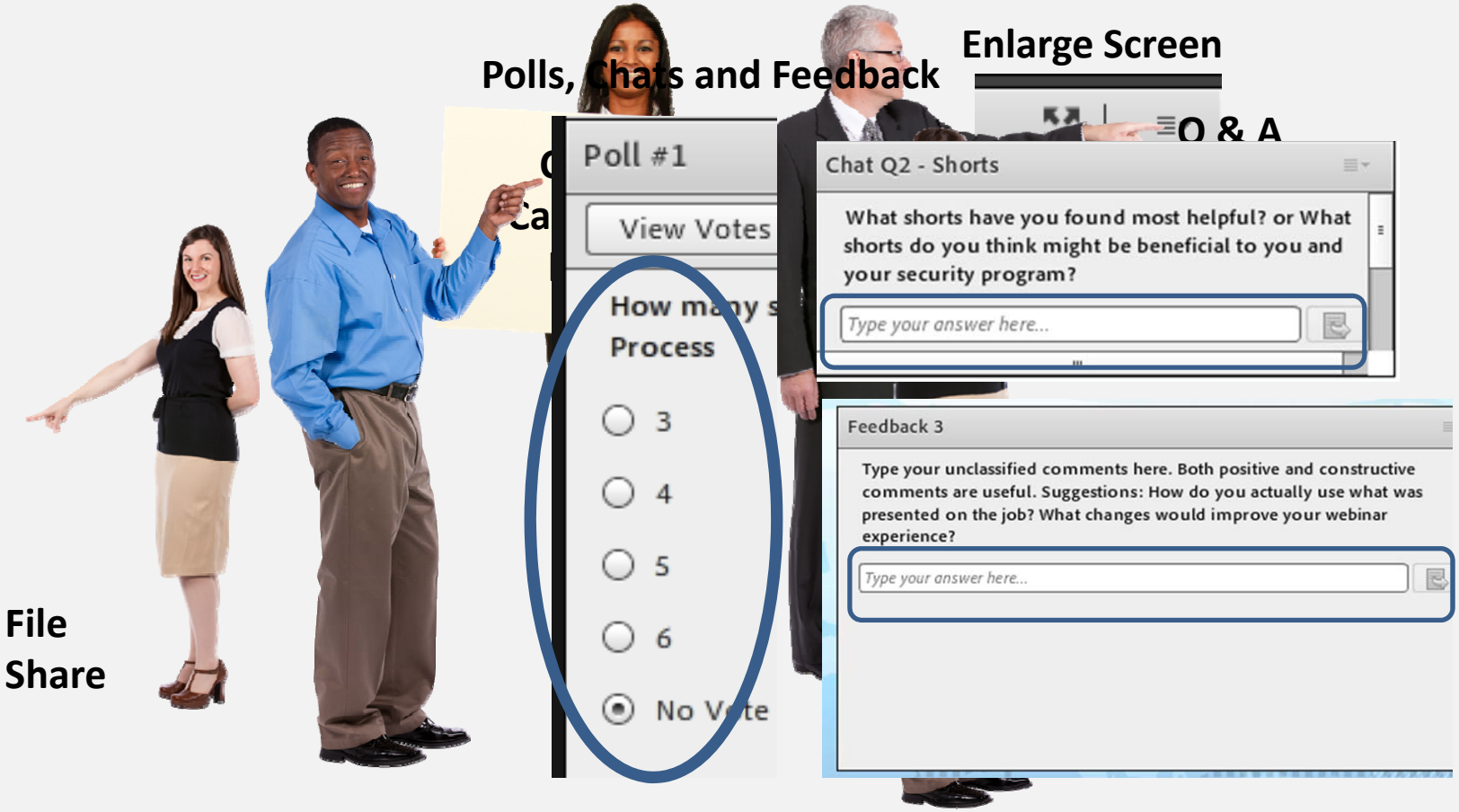
PERFORM.
PROTECT.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Back to 2017…

MILK

FEDERAL RESERVE NOTE
THE UNITED STATES OF AMERICA
B 03542754 F
WASHINGTON, D.C.
ONE DOLLAR

Back to 2017…

51% of the world's population is online

4000 Ransomware attacks every day

$1 billion in ransomware payments

2 Minutes: the time it takes for an IoT device to be attacked

1.4 million phishing websites created every month

197: average number of days to detect a breach

1 in 131 emails contain malware

The

Top Ten

Cybersecurity incidents of 2017

10: Equifax

Credit reporting agency that collects information on more than 800 million individuals and 88 million businesses.

Impact:

145.5 Million (45% of the US population)

Cause:

Outdated / unpatched software

Lessons Learned:

- Patch management is key
- Regularly scan your systems
- Act first

9: Uber

Peer-to-peer ridesharing and food delivery company operating in 633 cities worldwide.

Impact:

57 million records

Cause:

Compromised developer accounts

Lessons Learned:

- Know data breach notification laws
- Protect admin accounts
- Use two-factor authentication (when possible)

8: Verizon

Telecommunications company specializing in wireless products and services.

Impact:

14 million records

Cause:

Unsecured cloud server maintained by third-party vendor

Lessons Learned:

- Ensure partners protect your data as well as you would
- Protect cloud storage accounts

7: Shadow Brokers Leaks

Hacker group tied to several leaks of NSA hacking tools and zero-day exploits.

Impact:

5 major leaks

200,000+ compromised computers

Cause:

Allegedly hacked NSA partner

Lessons Learned:

Install updates and patches

6: New Ransomware Variants

Malicious software designed to deny authorized users access to their files or system until a ransom is paid.

Impact:

$1,077 average

Over $5 billion worldwide

Cause:

User behavior

Misconfigured systems

Shadow Brokers leak

Lessons Learned:

- Install updates and patches
- User awareness training
- Anti-malware software
- BACKUP, BACKUP, BACKUP

5: Voter Record Leak

Voter records include names, birth dates, addresses, and voter registration details.

Impact:

198 million voter records

Cause:

Misconfigured cloud server

Lessons Learned:

Secure cloud storage

4: Emmanuel Macron Campaign Hack

Macron, then a candidate, is now the President of France.

Impact:

9GB of leaked emails from the campaign

Cause:

Phishing emails to obtain user passwords

Lessons Learned:

User awareness and training

Use two-factor authentication

3: Di5s3nSi0N vs ISIL

Self-described "steadfast youth of ahlus-Sunnah wal-Jammah" organized cyber attacks against ISIL.

Impact:

Leaked 2000 email addresses
Compromised Telegraph accounts
Multiple websites hacked

Cause:

Unknown

Lessons Learned:

Rise of hacktivism

2: Crash Override / Triton

Industrial Control Systems are used to support critical infrastructure, including power plants, water and wastewater, transportation, and similar sectors.

Impact:

Unknown
Power outages in Ukraine
Unsuccessful attack in the Middle East

Cause:

Targets specific manufacturer's systems
Payload after initial compromise
Most likely shutdown vs. damage

Lessons Learned:

Continued targeting of ICS

1: Yahoo (2 breaches)

Web services provider that was purchased by Verizon in 2017

Impact:

3 Billion

Cause:

Spear phishing email

Lessons Learned:

- Confirm email senders
- Don't click untrusted attachments
- Use strong encryption

Conclusion

1. Perform regular data backups
2. Update and patch systems
3. Secure cloud accounts
4. Ensure users are trained and aware of the threats