David Thomsen Eth Hack

Password Guessing

- > After 2 step scan
- ➤ Usernames/emails
- > Server IP's
- ➤ Open Ports
- > Services running
- > Physical security vulnerabilities
- Procedure/process/training vulns
- > Domain names
- > Finding possible exploitation spots

Gaining a Foothold

- > Depending on the results:
- > Vulnerabilities that can be exploited remotely and provide system access
- > Physical access to systems (if in scope)
- > Endpoint malware

Credentials

- > Phishing
- > Brute-forcing
- Malware
- Guess (worth a shot)
- ➤ Defaults for services (Source)
- Goals of Password Guessing
 - > See if you can get a few usernames and any passwords w minimal effort
 - > Look for default and common passwords with account information
 - Testing completed in hours/days
- Password Guessing Techniques
 - > What is needed?
 - List of usernames as well as naming conventions (i.e. first.last@xxx firstinitial.lastname@xxx, etc.)
 - > List of possible passwords
 - > List of authenticated services to test against
- Username Lists
 - Recon and scanning
 - LDAP and other Dirs
 - Website info
 - Email addresses
 - > Wordlists
- Password Lists
 - Dictionary are available for download
 - Crawling websites to gather words/usernames for a particular org.
 - > CEWL is a Kali tool for Lists

- ❖ Processes that takes wordlists and "mangle: them for password variation
 - > RSMangler is the Kali tool
- Possible examples
 - ➤ Leet speak: G@nd@lfTh3Gr3y
 - > Add numbers: Canada1
 - > Append/prepend years: 2019Patriots
 - ➤ Mix case: PaTrloTs
 - Special characters: Ch@mpl@1n!21
 - > Combine words: bobadmin
 - > Review organizations password policy if available
- Services?
 - > RDP and SSH are great for access
 - > But often heavily monitored
 - > DCs/timeouts
 - > Subject to Automatic locking
- Other services to use
 - ➤ FTP
 - ➤ SMTP
 - > Simple web authentication
 - > SMB and other file services
 - > LDAP and other directory services
- Kali Tools
 - > Ncrack
 - > Medusa
 - ➤ Hydra