



## WHAT About Passwords?

• Passwords need complexity...right?

• What case is usually the first character of a password?

• You guessed it... UPPERCASE

• What is typically the last character?

• Right again... "!" or a number

• There is a need for strong passwords...Correct?

• So you want to know WHY?



• Cryptolocker 2013

• MAC Virus - KeRanger 2016

Largest DDOS attack ever by botnet on IoT devices

• Why?

• Didn't change their default passwords

• Totally unsecured IoT devices

• 11-78 million internet pages for "Default Password Lists"



## WHO Needs Passwords?

- Everyone and Everything
- Top 10 Passwords of 2016

123456	123456789	qwerty	12345678	11111
1234567890	1234567	Password	12323	987654321

- Link to top 25 Passwords of 2016
  - https://keepersecurity.com/public/Most-Common-Passwords-of-2016-Keeper-Security-Study.pdf
- 50% of 10 million passwords researched are in top 25
- 40% of all hackers target companies of < 1000 employees



## WHAT Do We Need To Do?

- Implement stronger password complexity
  - See <a href="http://csrc.nist.gov/">http://csrc.nist.gov/</a> for recommendations
- Ensure password policies are strictly enforced
  - Walk around look for password stickies
- Require employees to use biometric or number codes on their phones/tablets
- Implement two factor authentication
- Educate the USERS!

