

Authentication

Session 3











Introductions



Instructors

- Name
- Job / Company
- Industry Experience
- Something interesting

Volunteers

- Name
- Job / School
- Something interesting





Session Overview



Authentication

- Securing the digital identity
- Passwords, passwords & more passwords
- Biometrics:
 - Fingerprint scanner
 - Retina scanner
 - Face detection
 - Voice
- Easy way to authenticate passwords
- Are passwords secure?





Video



What is Authentication

- Lets watch it:
 - https://www.youtube.com/watch?v=teV_VMpvv5Y
 - Teacher materials: video-3.1
- Discuss with students



What is it?



What is Authentication?

Authentication is the process of determining whether someone or something is, in fact, who or what it is declared to be. It is a process in which the credentials provided are compared to those on file in a database of authorized users information on a local operating system or within an authentication server. If the credentials match, the process is completed and the user is granted authorization for access.



Class Discussion



What makes authentication strong?

- Something you know
- Something you are
- Something you have





Video



What is your pa\$\$w0rd?

- Lets watch it:
 - https://www.youtube.com/watch?v=opRMrEfAlil
 - Teacher materials: video-3.2
- Pause to discuss at any time

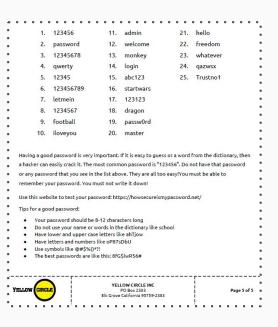


Student Activity



How secure is your password?

- Pass "top worst passwords" sheet
- Groups or Individuals
- DO NOT share / use their own passwords
- https://howsecureismypassword.net/
- Test some passwords from worksheet



Video



What is two-factor authentication (2FA)?

- Lets watch it:
 - https://www.youtube.com/watch?v=0mvCeNsTa1g
 - Teacher materials: video-3.3
- Pause to discuss at any time



Class Discussion



Discuss

- What is two-factor?
- Why is it safer than passwords?
- Potential problems with two-factor
- Teaching family & friends





Assessment



Open discussion on

- Using biometrics at home
- iPhone's face detection to unlock
- Fingerprints, pros & cons
- Retina scanners
- How expensive is multi-factor





Closing / Wrap-up



What we learned...

- Authentication process
- Multi-factor authentication
- Passwords: Weak & Strong
- Biometrics





What's next...



End of session 3

- Time for break
- Snacks served in Cafeteria
- Remember to use restrooms



