SCCE’s 18th Annual
Compliance & Ethics Institute

1

Session 206:
Password Techniques and Strategies to Promote a Higher Level of IT Security

Frank Ruelas,
Facility Compliance Professional
St. Joseph’s Hospital and Medical Center/Dignity Health
(francisco.ruelas@dignityhealth.org)

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Frank Ru
Facility C onal
St. Joseph and Medical Center/Dignity Health
(francisco.r elas@dignityhealth.org)

Lunch follows this session!

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Objectives… Let’s break them down.

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- Learn key criteria applicable to passwords that have the potential to contribute to a higher level of security with respect to the organization’s information system.

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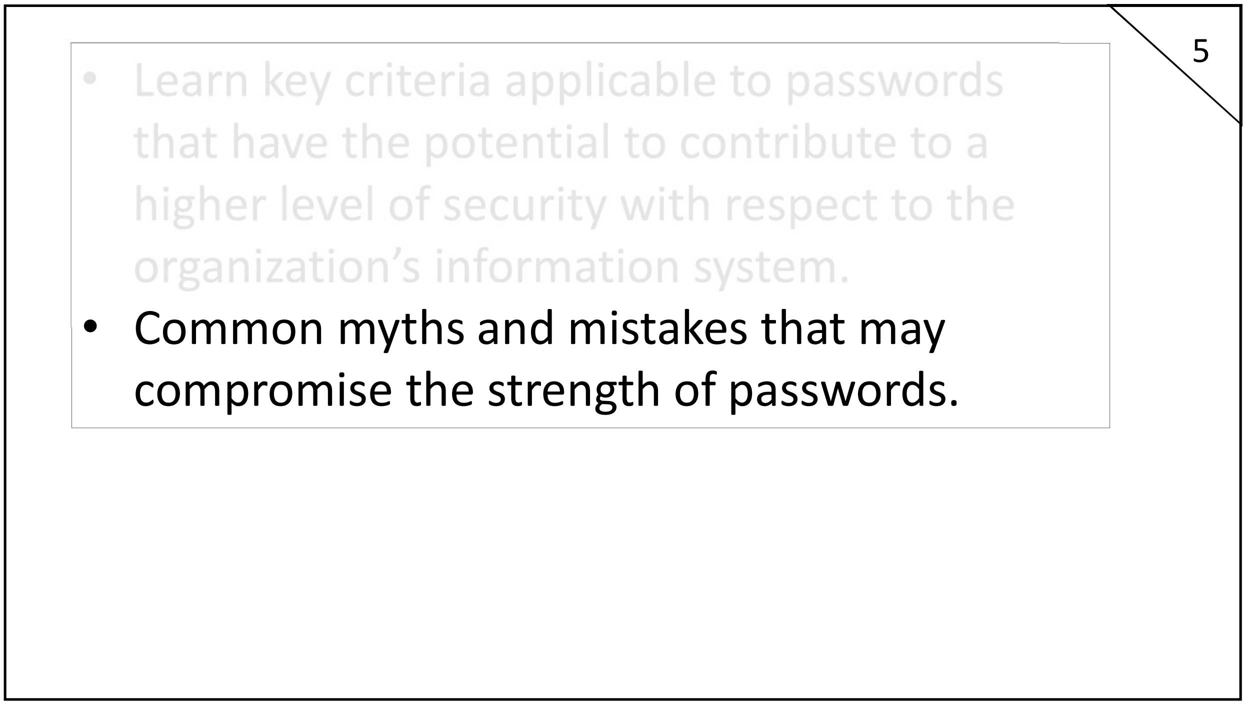

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- Learn key criteria applicable to passwords that have the potential to contribute to a higher level of security with respect to the organization’s information system.
- Common myths and mistakes that may compromise the strength of passwords.

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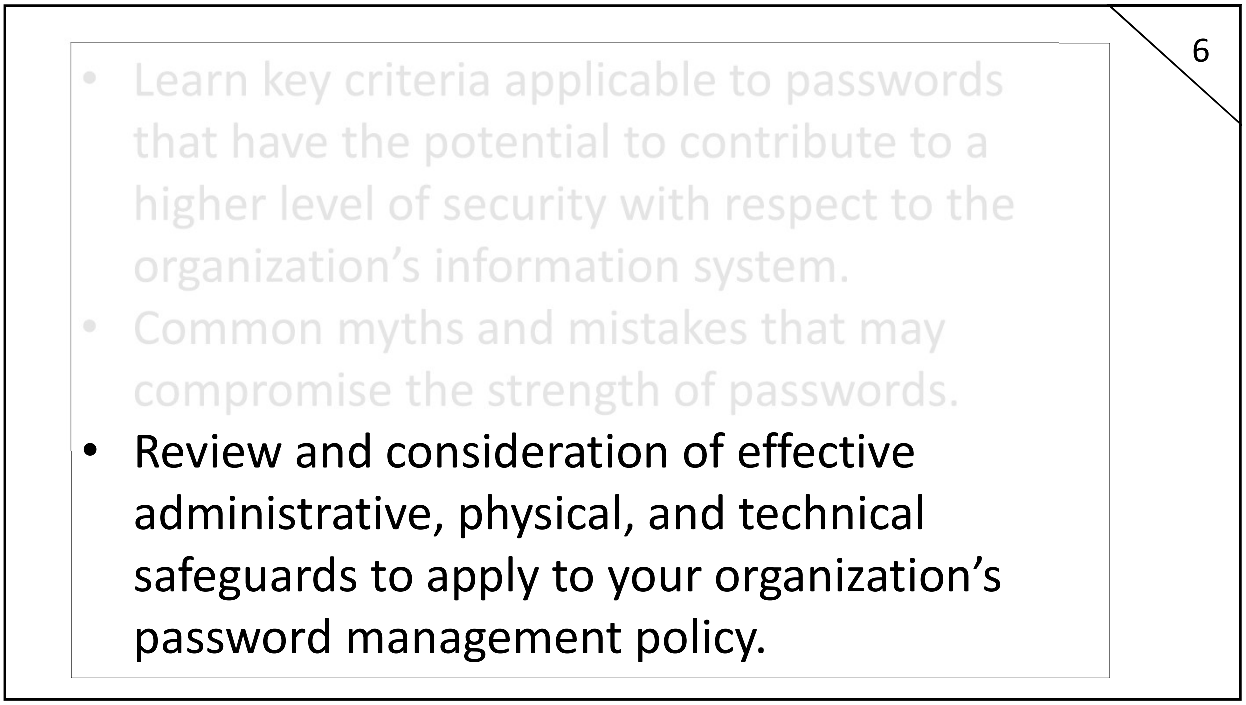

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- Common myths and mistakes that may compromise the strength of passwords.
- Review and consideration of effective administrative, physical, and technical safeguards to apply to your organization’s password management policy.

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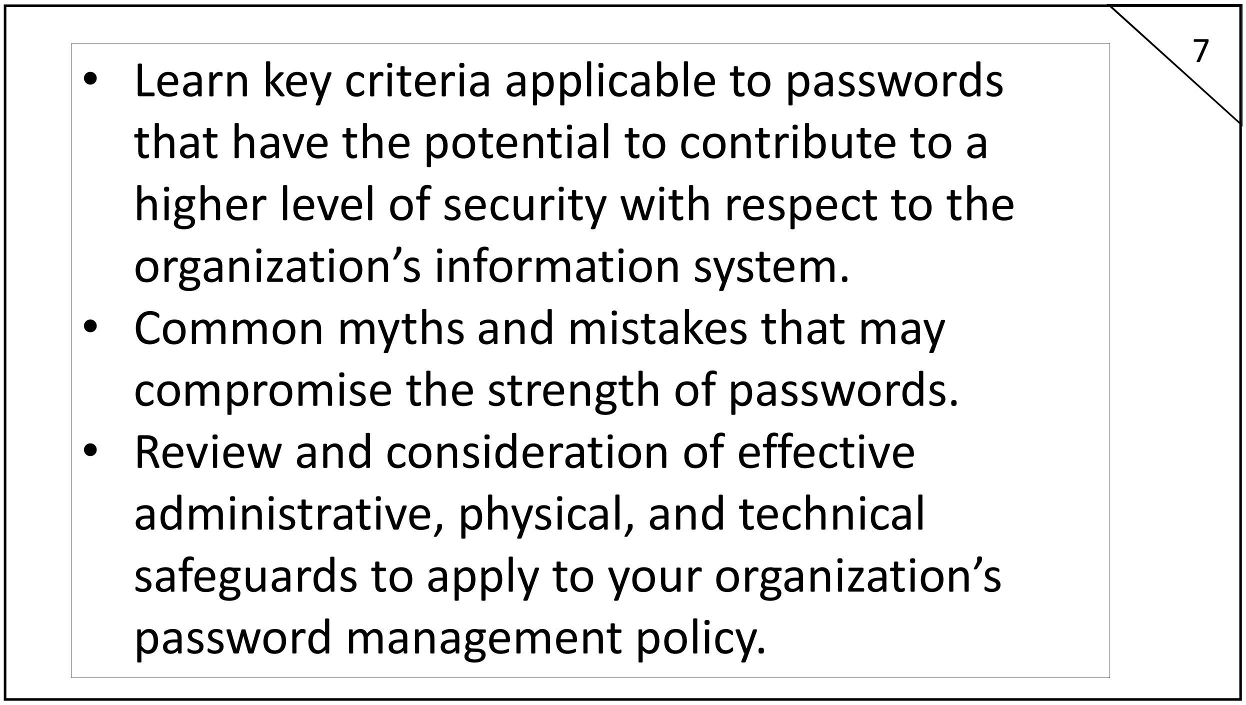

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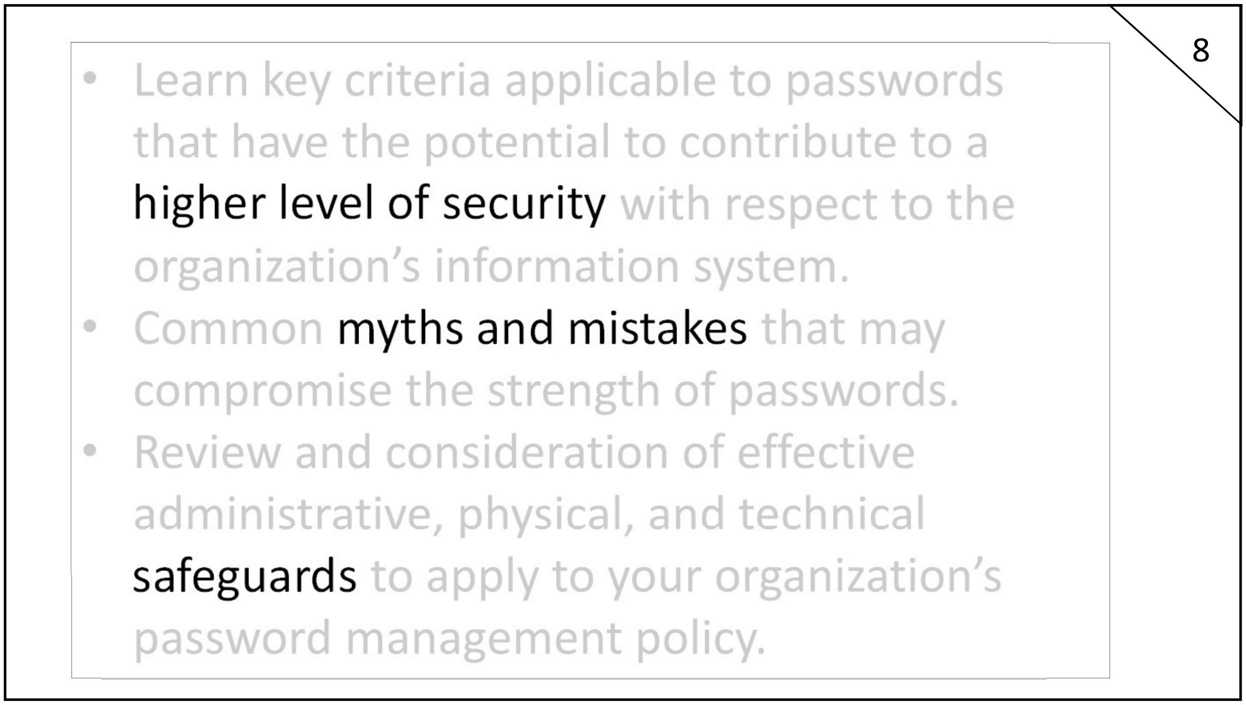

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8

Role Check!

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Which is your area of focus?

A. Privacy
B. Security
C. Compliance
D. Information Technology (IT)
E. Depends on the day

9

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5WH1

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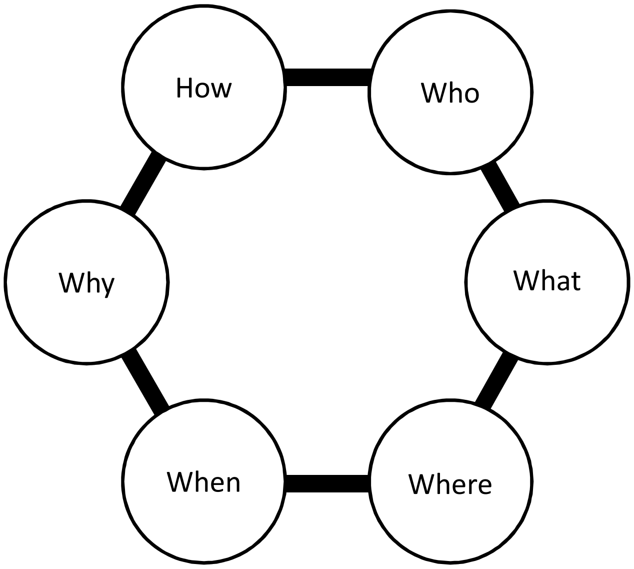
How
Who
What
Why
When
Where

5WH1

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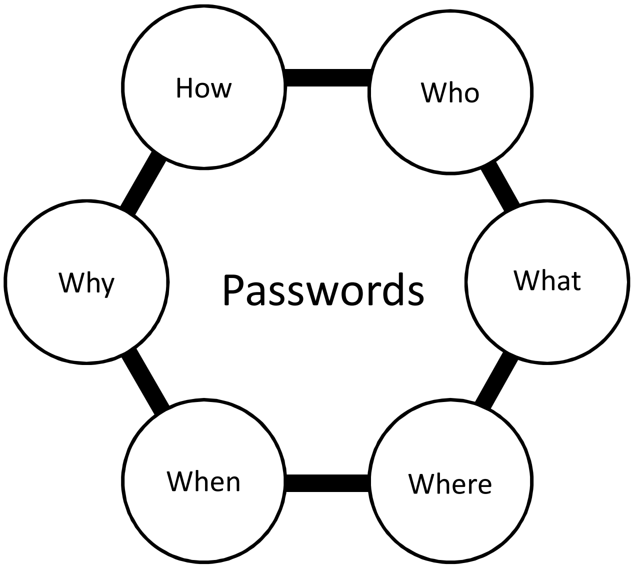
How
Who
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Passwords
What
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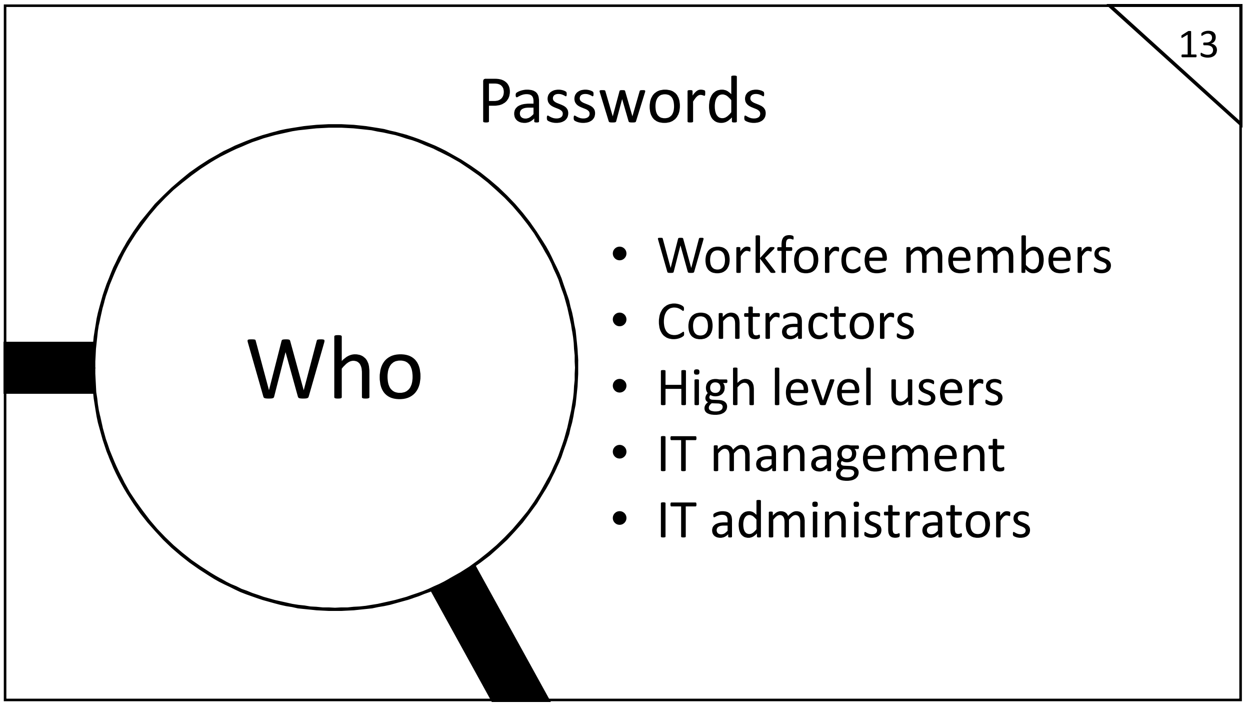

13

Passwords

Who

- Workforce members
- Contractors
- High level users
- IT management
- IT administrators

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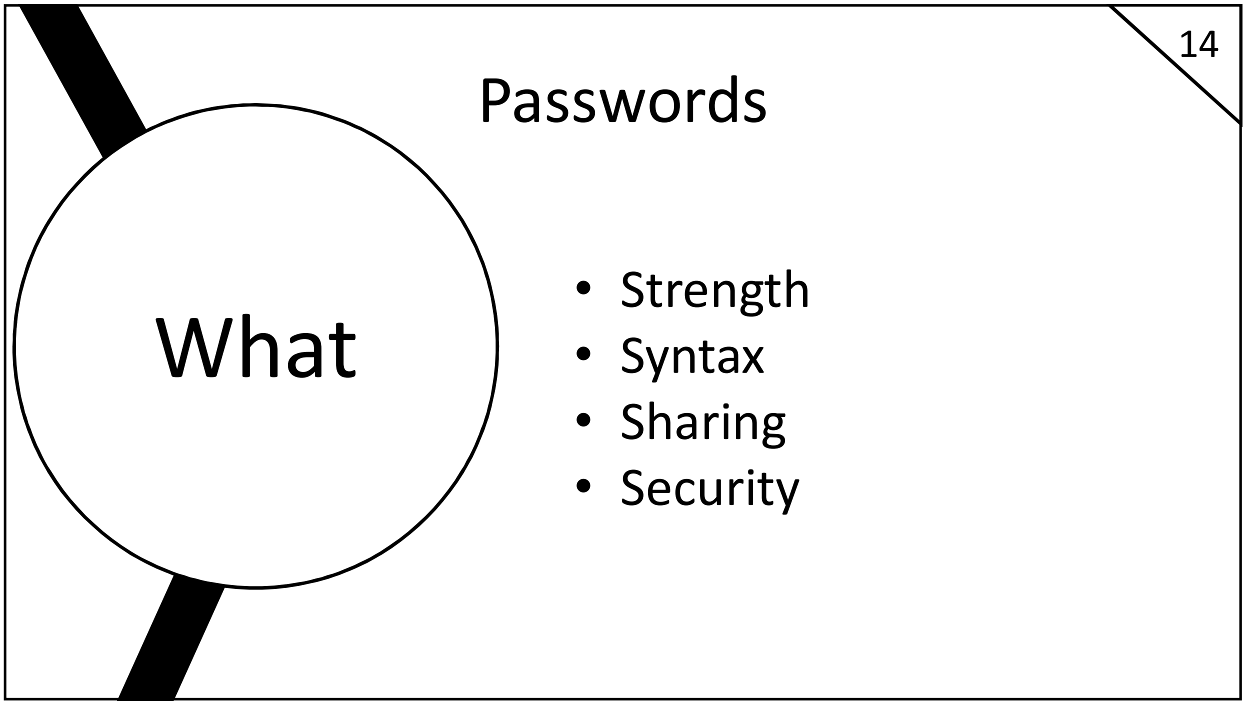

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Passwords

What

- Strength
- Syntax
- Sharing
- Security

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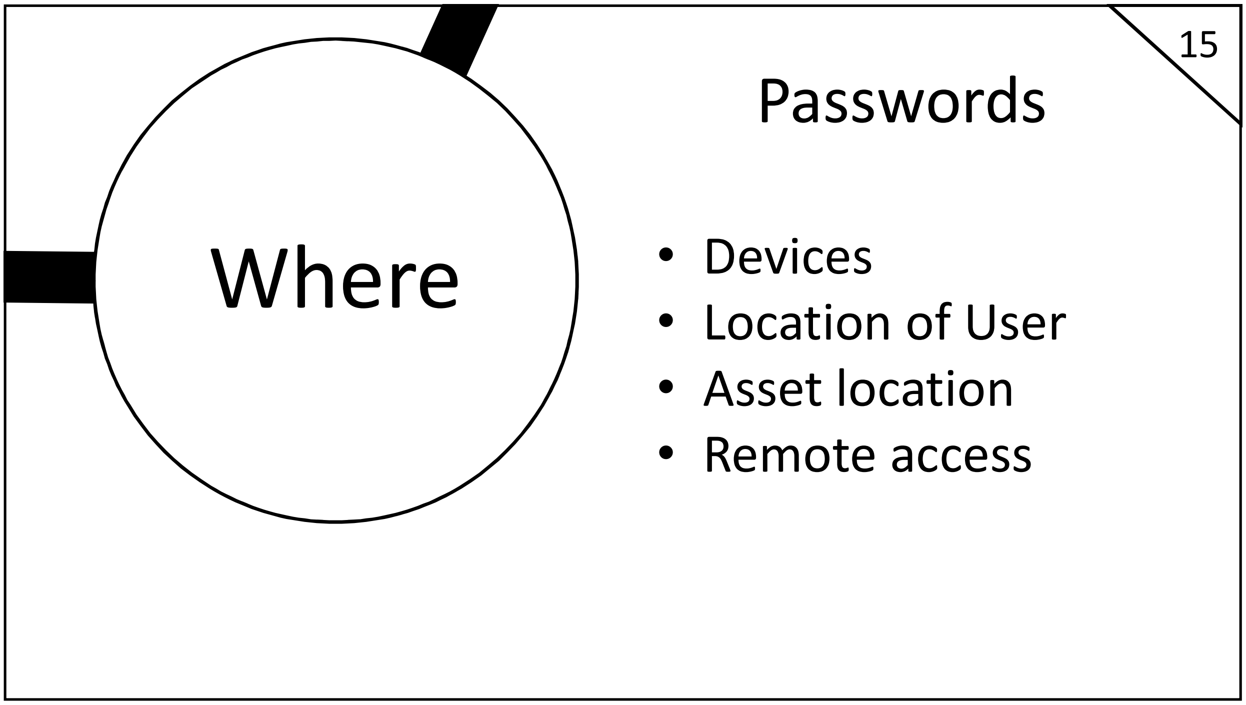

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Passwords

Where

- Devices
- Location of User
- Asset location
- Remote access

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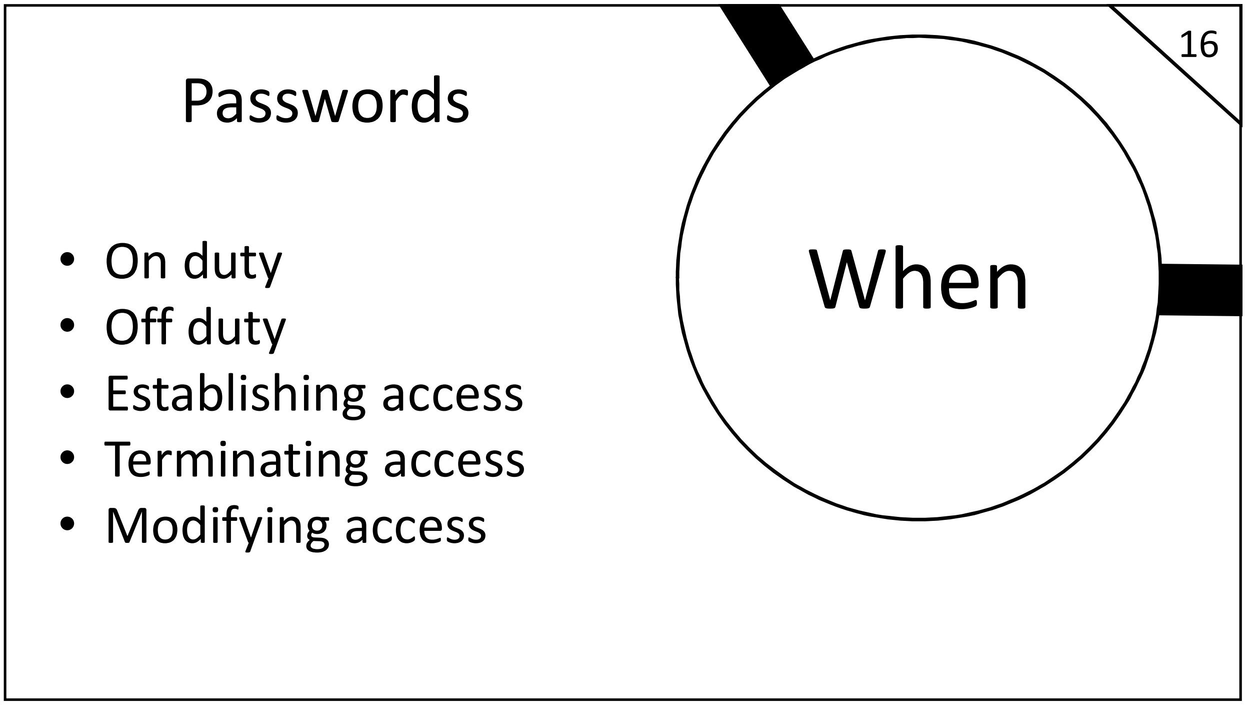

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Passwords

When

- On duty
- Off duty
- Establishing access
- Terminating access
- Modifying access

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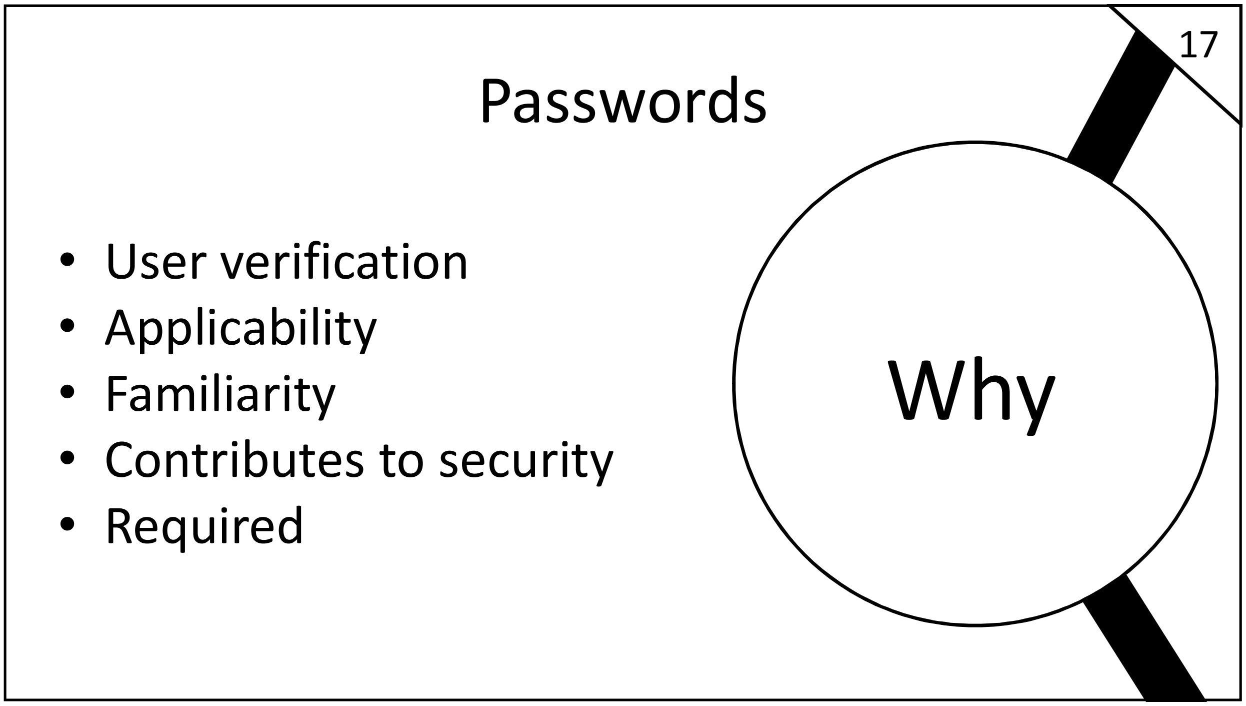

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Passwords

- User verification
- Applicability
- Familiarity
- Contributes to security
- Required

Why

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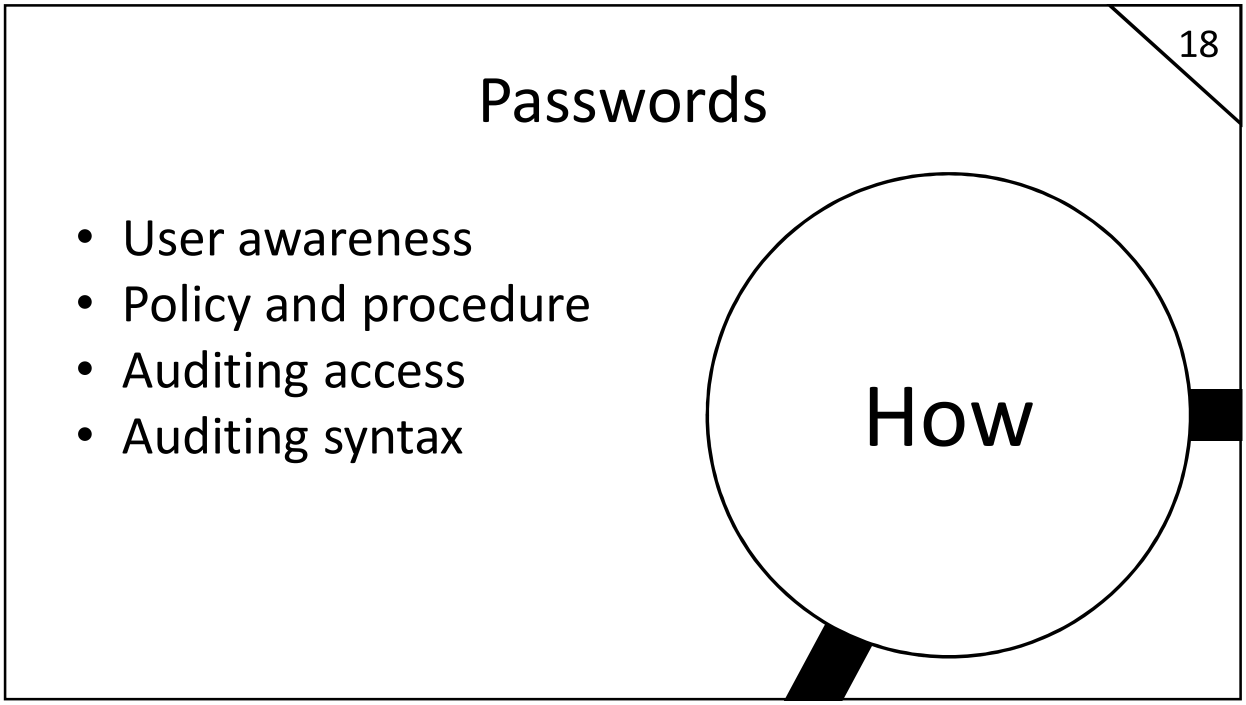

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Passwords

- User awareness
- Policy and procedure
- Auditing access
- Auditing syntax

How

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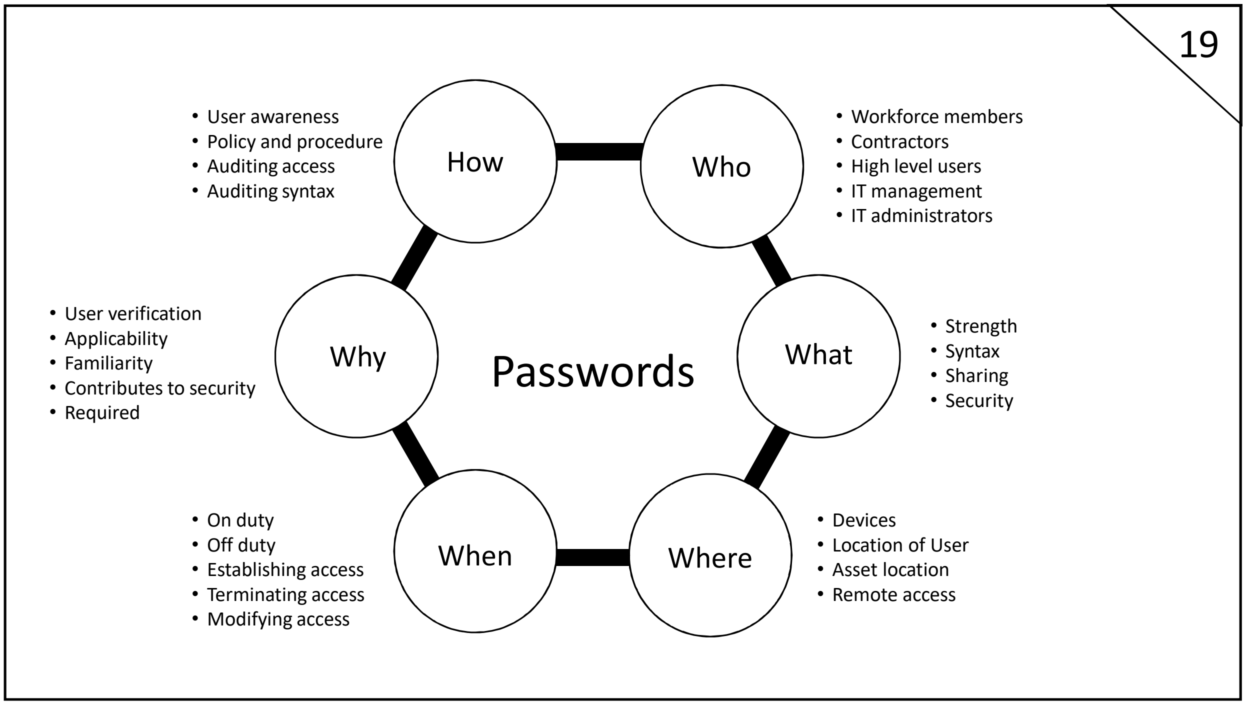

19

Passwords

How
- User awareness
- Policy and procedure
- Auditing access
- Auditing syntax

Who
- Workforce members
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What
- Strength
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- On duty
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19

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Safeguards

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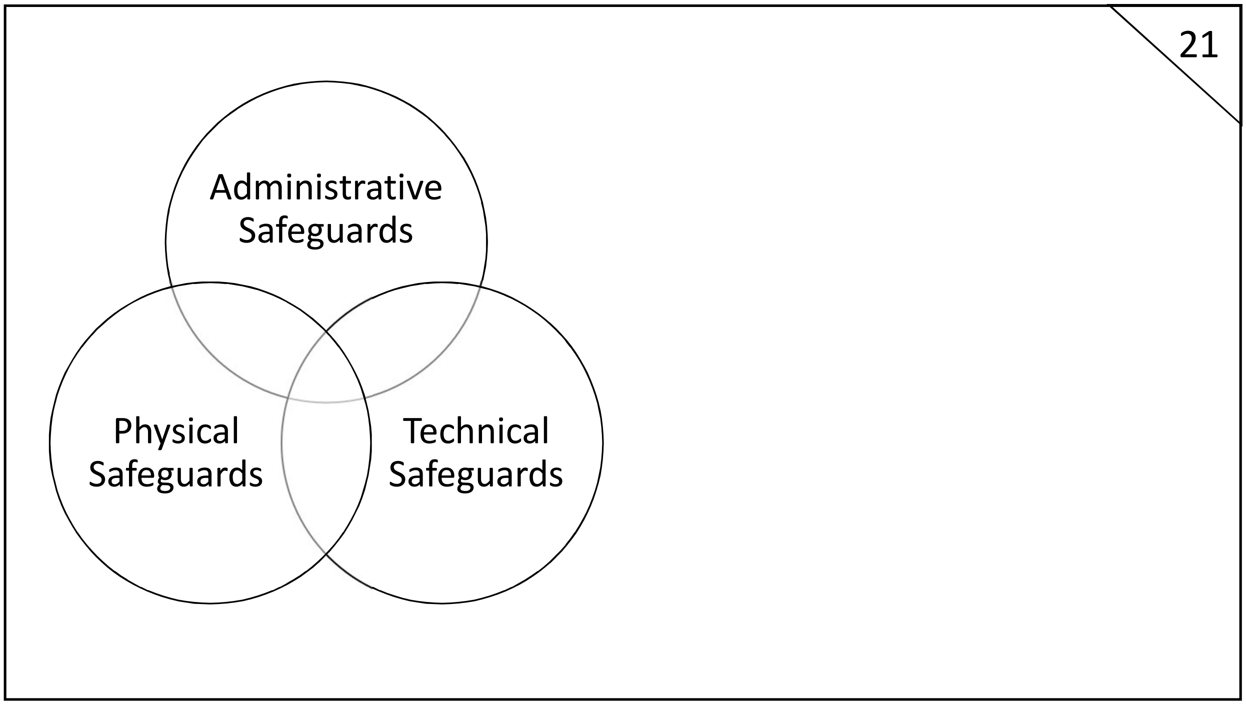

21

Administrative Safeguards

Physical Safeguards

Technical Safeguards

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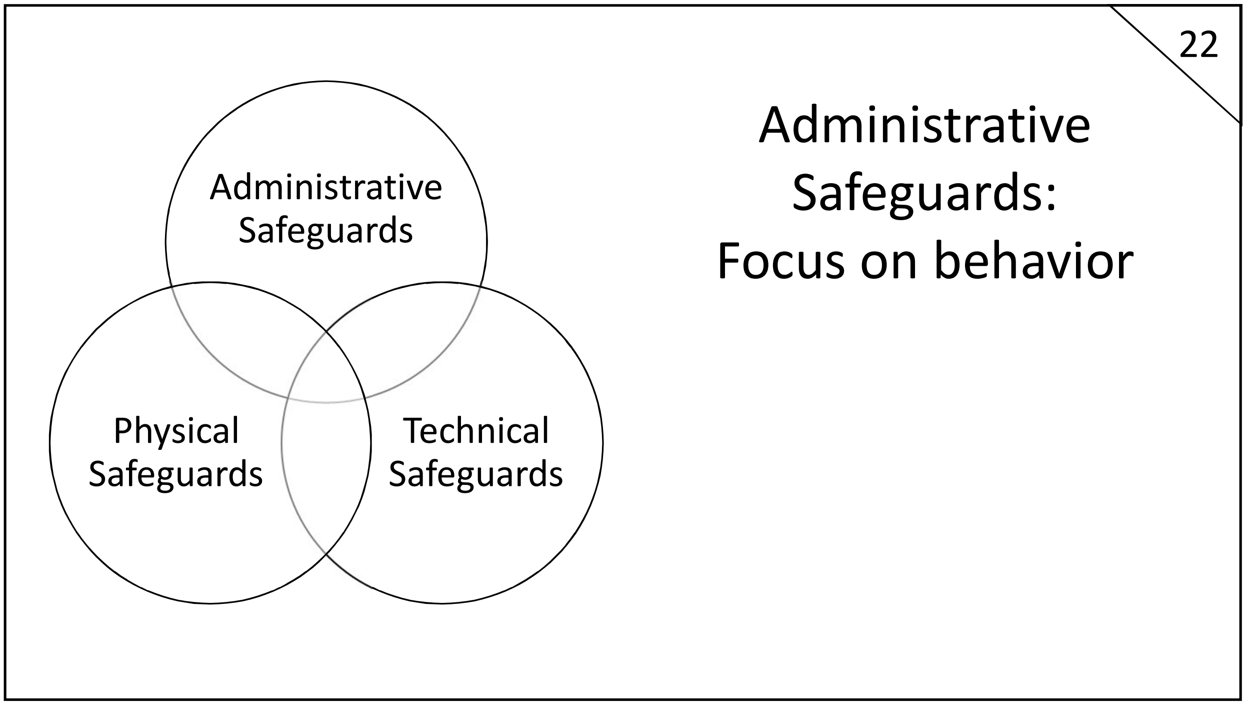

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Administrative Safeguards

Physical Safeguards

Technical Safeguards

Administrative Safeguards: Focus on behavior

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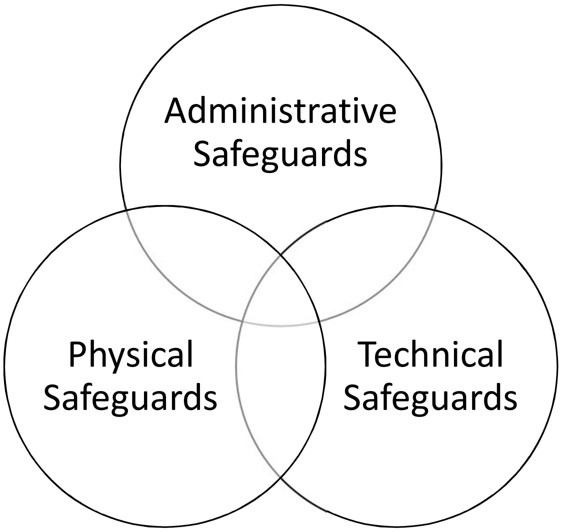

Administrative Safeguards: Focus on behavior

- Don’t share

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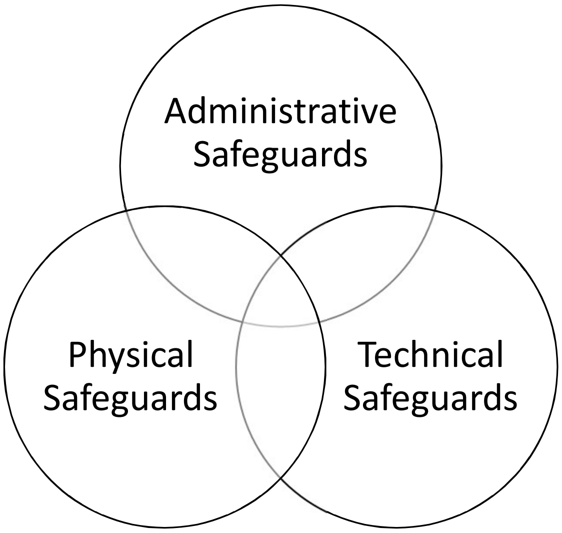

Administrative Safeguards: Focus on behavior

- Don’t share
- Don’t write down

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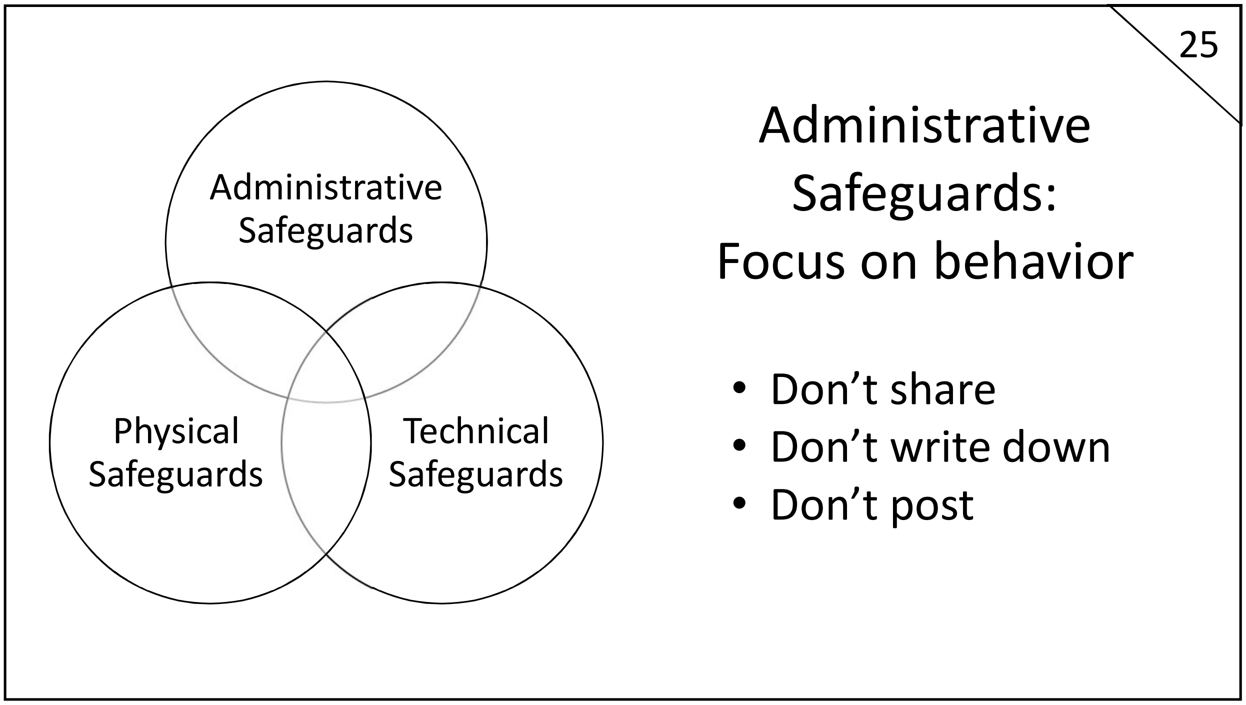

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Administrative Safeguards

Physical Safeguards

Technical Safeguards

Administrative Safeguards: Focus on behavior

- Don’t share
- Don’t write down
- Don’t post

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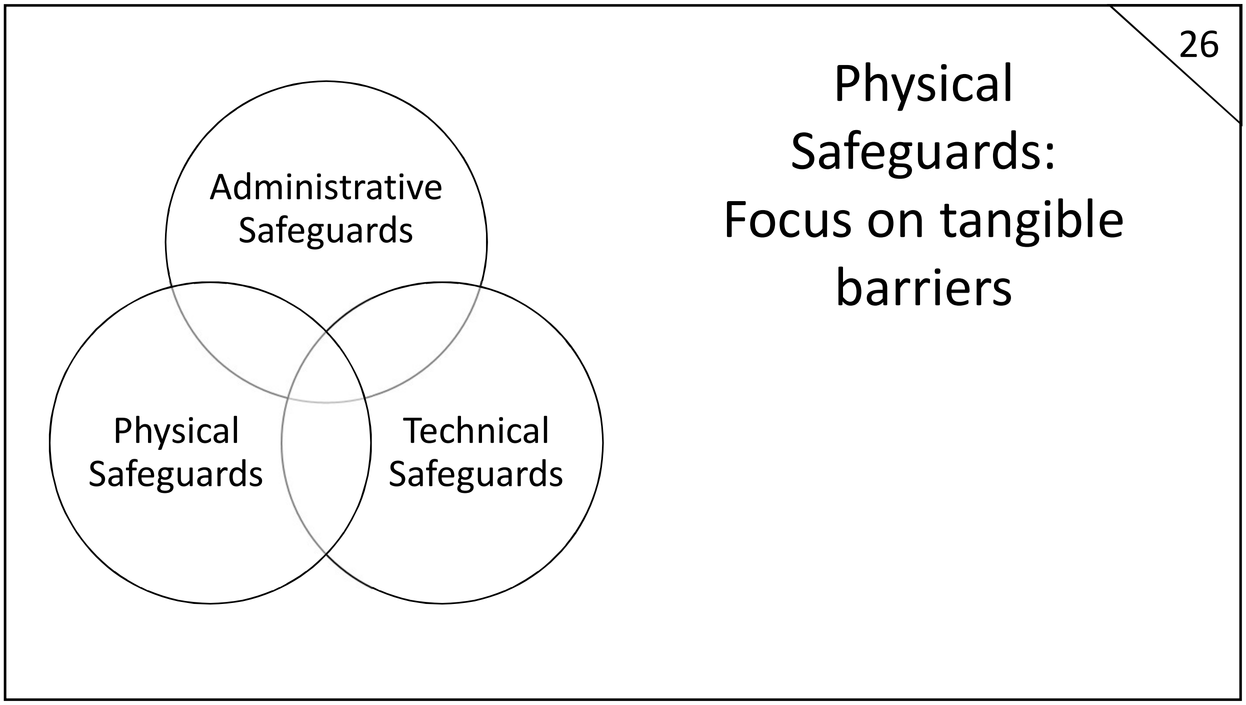

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Administrative Safeguards

Physical Safeguards

Technical Safeguards

Physical Safeguards: Focus on tangible barriers

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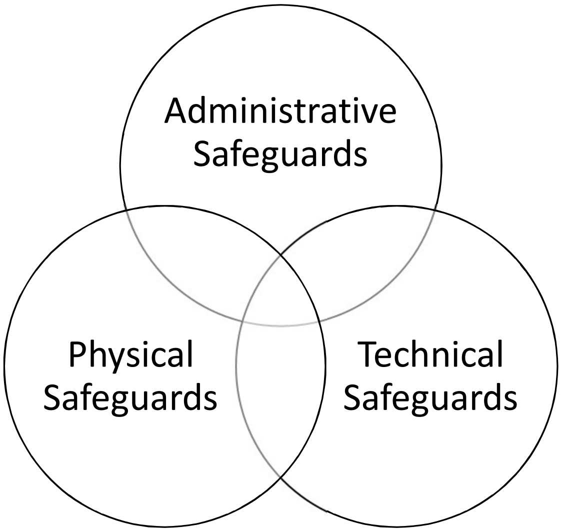

Physical Safeguards: Focus on tangible barriers

- Function activated

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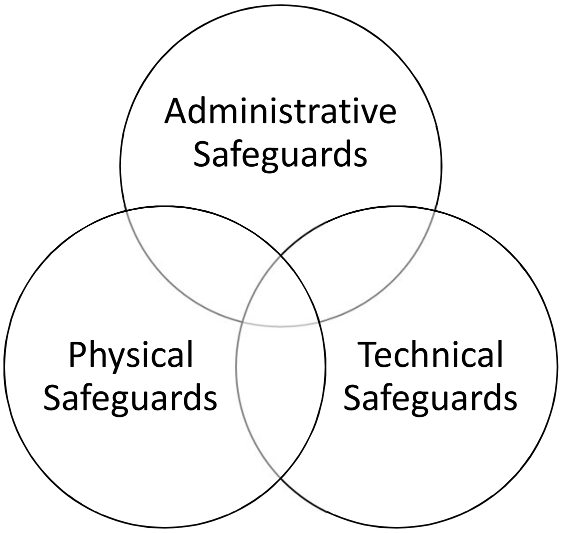

Physical Safeguards: Focus on tangible barriers

- Function activated
- Interface enabled

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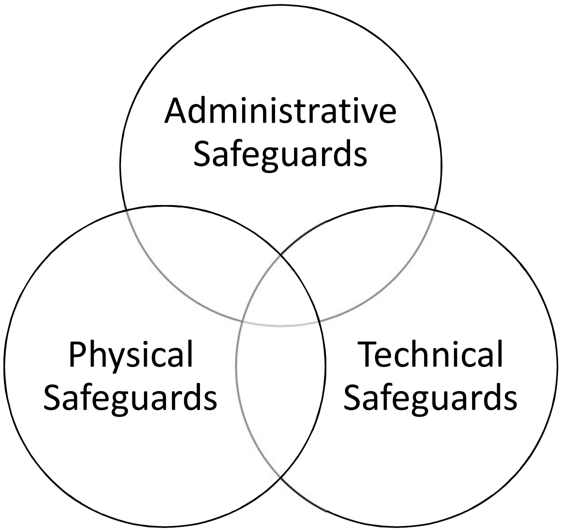
29

Technical Safeguards: Focus on use of technology



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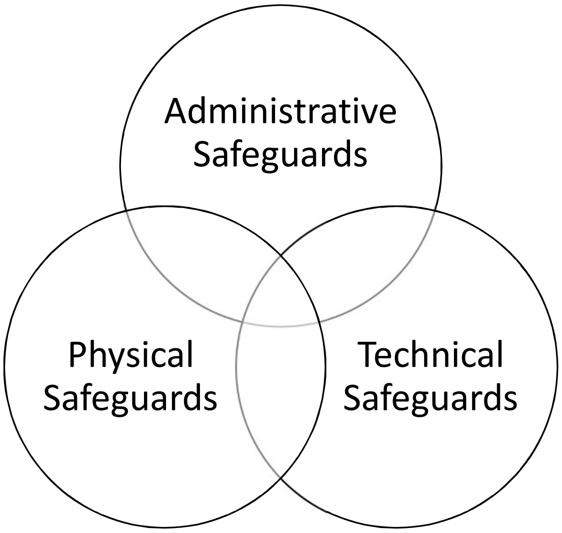
Technical Safeguards: Focus on use of technology

- Expiration date



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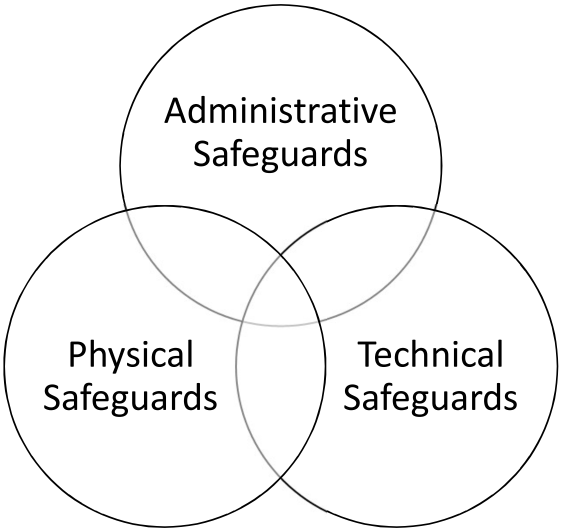

Technical Safeguards: Focus on use of technology

- Expiration date
- Syntax

31

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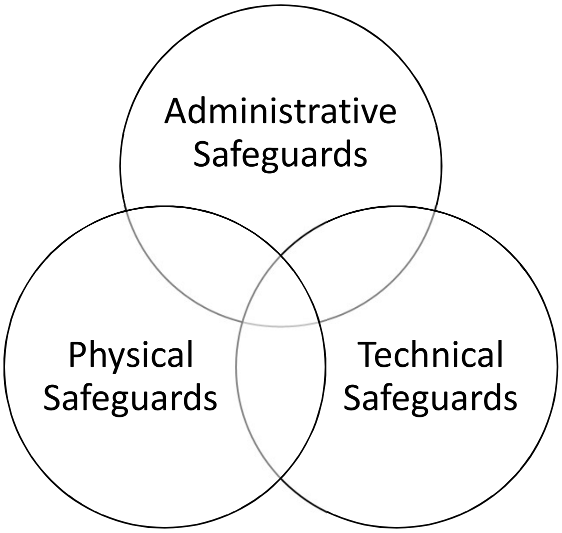

Technical Safeguards: Focus on use of technology

- Expiration date
- Syntax
- Failed attempts

32

33

Changing Passwords

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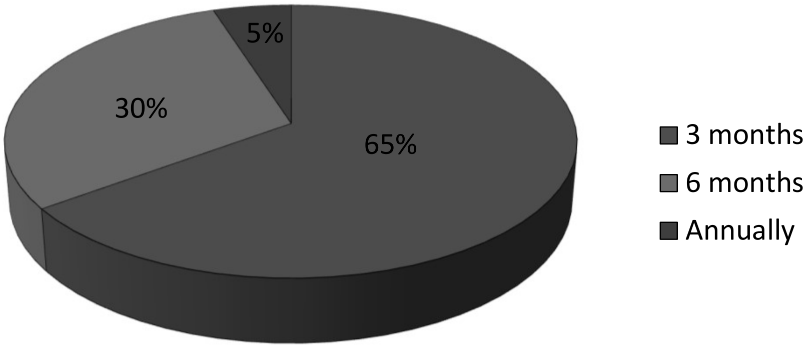
Frequency



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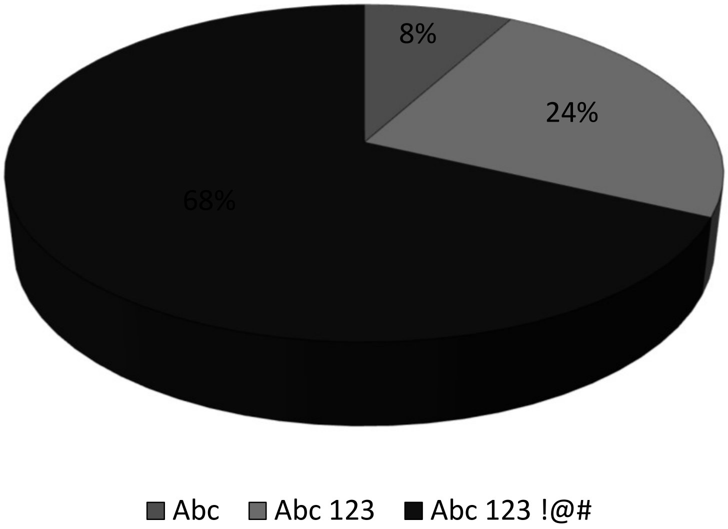
35

Syntax



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36

Strength

Mitigate the risk of someone guessing a password

36

37

Have you ever wondered?

- How many password combinations?
  - Consider the following
    - Letters – Capitalized – 26…25 for ease
    - Letters – Lowercase – 26…25 for ease
    - Numbers – All digits - 10
    - Special characters - 20

37

38

Have you ever wondered?

- 80 possible choices for each position
  - 4 characters – 40 million possible
  - 8 characters– 1.6 quadrillion

…I think you get the idea.

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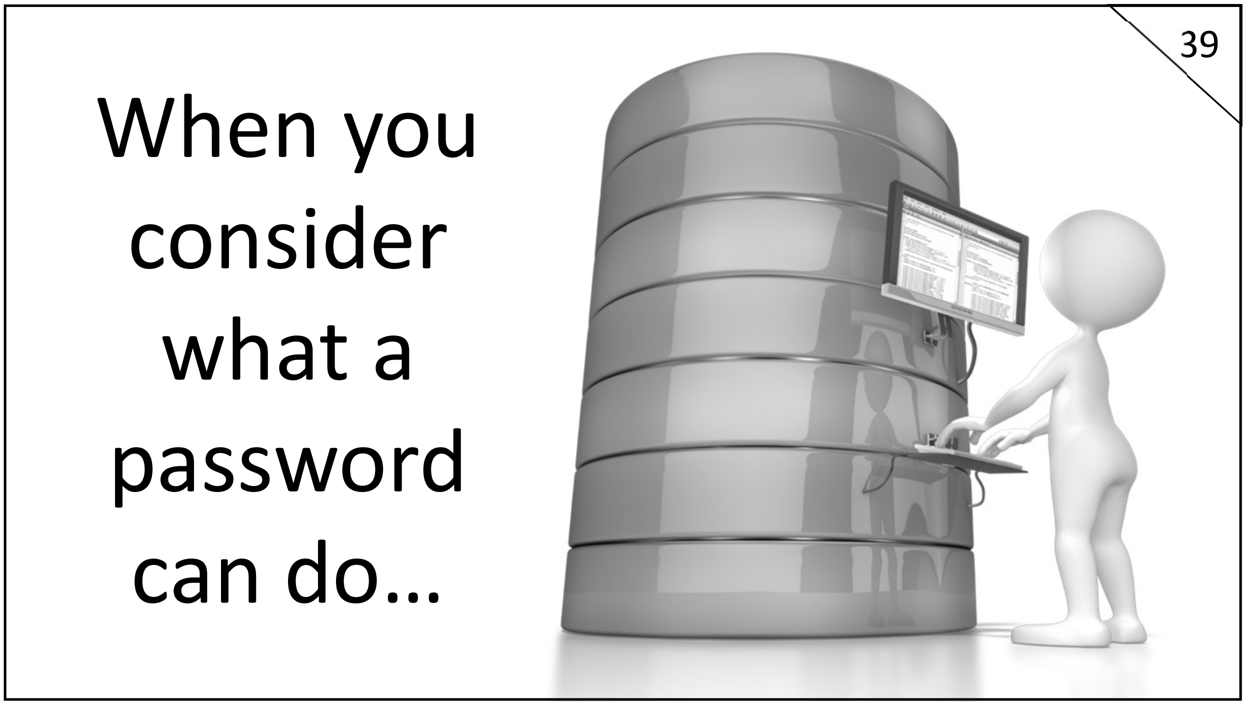

39

When you consider what a password can do…

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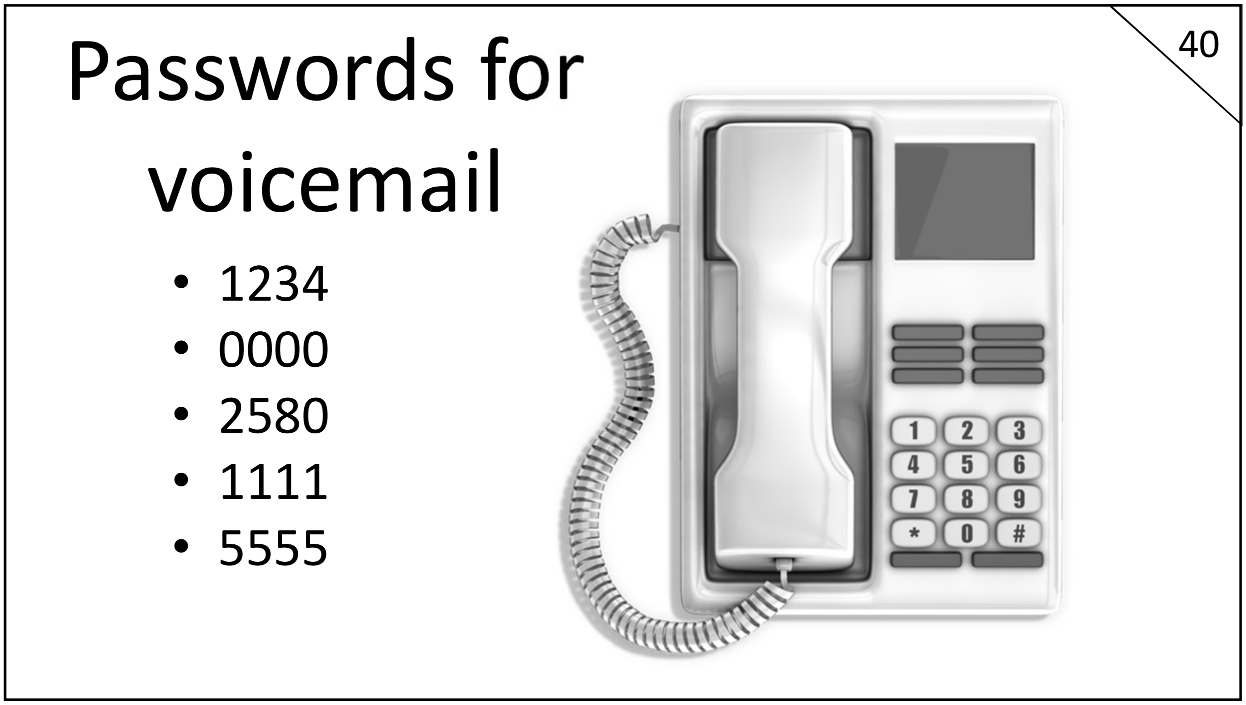

40

Passwords for voicemail

- 1234
- 0000
- 2580
- 1111
- 5555

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41

Next steps…

- Continued training
- Exercises
- Other threats : Social Engineering

41

42

Want to know…

- …how to check if an email's password was potentially compromised?
- …if a password was hacked?
- …how to decipher a password?

42

REVIEW
AND
Q&A

43