Identity and Access Management

EX-NO:03

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AIM:

Learn about identification, authentication, authorisation, accounting, and identity management.
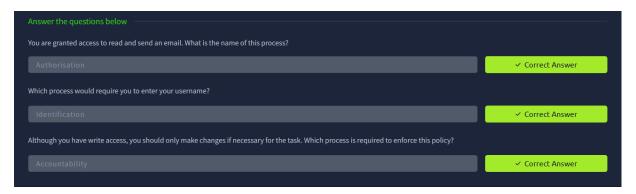
PROCEDURE:

- Task 1 Introduction
- Task 2 IAAA Model
- Task 3 Identification
- Task 4 Authentication
- Task 5 Authorisation and Access Control
- Task 6 Accountability and Logging
- Task 7 Identity Management
- Task 8 Attacks Against Authentication
- Task 9 Access Control Models
- Task 10 Single Sign-On
- Task 11 Scenarios
- Task 12 Conclusion

Task 1:

Answer the questions below

What is the name of the room recommended to finish before this one?

Security Principles | ✓ Correct Answer

Task 2:

Answer the questions below

You are granted access to read and send an email. What is the name of this process?

Authorisation | ✓ Correct Answer

Which process would require you to enter your username?

Identification | ✓ Correct Answer

Although you have write access, you should only make changes if necessary for the task. Which process is required to enforce this policy?

Accountability | ✓ Correct Answer

Task 3:

Answer the questions below

Which of the following **cannot** be used for identification?

1. Email address
2. Mobile number with international code
3. Year of birth
4. Passport number

> 3   ✓ Correct Answer

Which of the following **cannot** be used for identification?

1. Landline phone number
2. Street number
3. Health insurance card number
4. Student ID number

> 2   ✓ Correct Answer

Task 4:

Answer the questions below

When you want to check your email, you enter your username and password. What kind of authentication is your email provider using?

> 1   ✓ Correct Answer

Your bank lets you finish most of your banking operations using its app. You can log in to your banking app by providing a username and a password and then entering the code received via SMS. What kind of authentication is the banking app using?

> 4   ✓ Correct Answer

Your new landline phone system at home allows callers to leave you a message when the call is not picked up. You can call your home number and enter a secret number to listen to recorded messages. What kind of authentication is being used here?

> 1   ✓ Correct Answer

You have just started working at an advanced research centre. You learned that you need to swipe your card and enter a four-digit PIN whenever you want to use the elevator. Under which group does this authentication fall?

> 4   ✓ Correct Answer

Task 5:

Answer the questions below

The new policy states that the secretary should be able to send an email on the manager's behalf. What is this policy dictating?

> 1   ✓ Correct Answer

You shared a document with your colleague and gave them view permissions so they could read without making changes. What would ensure that your file won't be modified?

> 2   ✓ Correct Answer

The hotel management decided that the cleaning staff needed access to all the hotel rooms to do their work. What phase is this decision part of?

> 1   ✓ Correct Answer

Task 6:

Answer the questions below

Ensure you have read the above before moving on.

> No answer needed   ✓ Correct Answer

Task 7:

Answer the questions below

What does IdM stand for?

Identity Management   ✓ Correct Answer

What does IAM stand for?

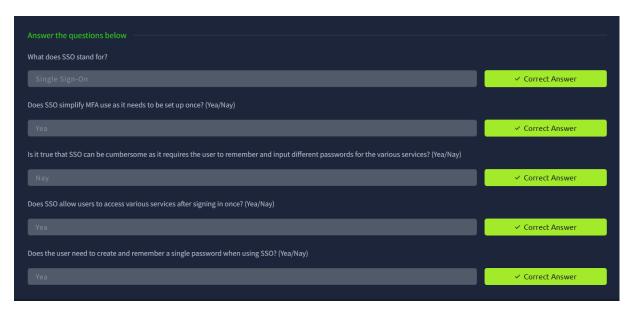Identity and Access Management   ✓ Correct Answer

Task 8:

Answer the questions below

The attacker could authenticate using the user's response when the authentication protocol required a password encrypted with a shared key. What is the name of the attack?
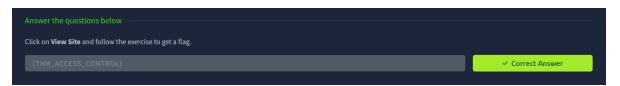
Replay Attack   ✓ Correct Answer

Task 9:

Answer the questions below

You are sharing a document via a network share and giving edit permission only to the accounting department. What example of access control is this?

2   ✓ Correct Answer

You published a post on a social media platform and made it only visible to three out of your two hundred friends. What kind of access control did you use?

1   ✓ Correct Answer

Task 10:

Answer the questions below

What does SSO stand for?

Single Sign-On   ✓ Correct Answer

Does SSO simplify MFA use as it needs to be set up once? (Yea/Nay)

Yea   ✓ Correct Answer

Is it true that SSO can be cumbersome as it requires the user to remember and input different passwords for the various services? (Yea/Nay)

Nay   ✓ Correct Answer

Does SSO allow users to access various services after signing in once? (Yea/Nay)

Yea   ✓ Correct Answer

Does the user need to create and remember a single password when using SSO? (Yea/Nay)

Yea   ✓ Correct Answer

Task 11:

Answer the questions below

Click on **View Site** and follow the exercise to get a flag.

{THM_ACCESS_CONTROL}   ✓ Correct Answer

Task 12:

Answer the questions below

Ensure that you have taken notes of the concepts and terms presented in this room.

No answer needed   ✓ Correct Answer

RESULT:

Thus the Identity and Access Management successfully completed in tryhackme platform.