Identity and Access Management risks

Presented by Nermen Mostafa Kamal
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• Inadequate Access Control
• Human Error
• Malicious Actors
• External Threats
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INTRODUCTION TO IDENTITY AND ACCESS MANAGEMENT

- Critical component of any organization's security posture.
- Process of controlling who can access what resources, and how they can access them.
- Source of risk if not managed properly.
- Risks associated with IAM can range from weak authentication and authorization procedures to inadequate access control.
IAM RISKS

01 Technical risks

- Weak Authentication and Authorization Procedures.
- Lack of encryption.
- Inadequate authentication.

02 Human risks

- User behavior and include unauthorized access.
- Misuse of data.
- Malicious attacks.
01 Technical risks
Weak Authentication and Authorization Procedures

- Weak passwords.
- Lack of multi-factor authentication.
- Security vulnerabilities.
Inadequate Access Control

• Access control measures are not properly implemented, users may be able to access resources that they are not authorized to access.

• This can lead to data breaches, malicious activity, and other security risks.

Solution:

• Ensure that access control measures are in place and that they are enforced.

• Creating user accounts with appropriate access levels, logging user activity, and monitoring user access.

• Regularly review access control measures to ensure that they are up-to-date.
Human Error
Human Error

- Weak passwords.
- Sharing credentials.
- Granting unauthorized access.

Solution:
- Authentication and biometric authentication.
Malicious Actors

- Gain access to resources, such as social engineering, phishing, and malware.

**Solution:**
- Strong authentication and authorization procedures.
- Access control, and user education.
External Threats

- Come from hackers, malware, or other malicious actors.

**Solution:**
- Strong authentication and authorization procedures.
- Access control, and user education.
The Impact of IAM Risks

- Data breaches
- Identity theft
- Malicious attacks

**Result:**
- Financial losses
- Reputational damage
- Regulatory penalties
- It is therefore important for organizations to take steps to mitigate IAM risks.
Conclusion

- Identity and Access Management (IAM) is an important for organizations to protect their networks and data from unauthorized access.
- IAM can also be a source of risk.
- Organizations should implement best practices to ensure the security of their IAM systems and regularly audit and monitor user activity.
THANKS!

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