

## User authentication

### Self-assessment test

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Select the correct answer.

1. Authentication and identification, are they the same?
  - Yes, they are synonyms.
  - No, authentication involves identity verification.
  - No, identification takes place when the authentication process is satisfied.
  - Yes, though just when it is referred to people.

2. Complete the following sentence:

“A system based on \_\_\_\_\_ is focused on “something the user \_\_\_\_\_” “

- Tokens; is.
  - Secrets; is.
  - Passwords; has.
  - Passwords; knows.
3. Regarding passwords management, how should they be stored in a system?
    - In cleartext but written within a non-suspicious file name.
    - In a excel sheet or something similar, without including usernames.
    - After applying a hash function, in a file or database.
    - In a database in which the access is managed through multifactor authentication.
  4. How should passwords renewal be managed?
    - Renewed from time to time, and specially in critical systems.
    - Passwords could be never changed.
    - Passwords could be short, if they are “strange” enough.
    - Passwords could be long, even if they are trivial to come up with.

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5. Why is social engineering a threat to password-based systems?
- Because it models the functioning of society, thus passwords are foreseen.
  - Because they are techniques that trick users to reveal their passwords.
  - Because engineer criteria are applied over a brute force attack.
  - Social engineering is not a threat to passwords.
6. What is the meaning of OTP acronym in the authentication context?
- One-Time-Password, passwords of one use only.
  - On-The-Phone, authentication through the mobile phone.
  - Only-Two-Passwords, multifactor authentication system.
  - None of the above.
7. A chained OTP...
- The token and the server should be synchronized.
  - It is based on challenges sent by both parties.
  - It is based on generating a password regarding the previous one.
  - A third party could predict the following password if the previous one is intercepted.
8. In a challenged based OTP...
- Authentication occurs when comparing values sent by the token with the stored ones in a database.
  - Authentication occurs when executing an irreversible function  $f$  successively over an initial seed.
  - Authentication is based on determining if the token has used the key stored in a database.
  - Authentication occurs when the server and the token get to a shared secret, called seed.
9. An authentication system that combines the password knowledge and the possession of a mobile device is called...
- Multipurpose.
  - Multifactor.
  - Multimedia.
  - Multisecure.
10. Choose the FALSE sentence concerning biometric authentication:
- All biometric systems offer the same security level, high in general.
  - To authenticate a user, a trait or pattern is achieved and compared with the one previously stored in the system.
  - Biometric traits used for authentication purposes should be unique and permanent for each user.
  - Before user authentication, a registration process is required.