

Security & Protection | Operating System

1. 1. Which principle states that programs, users and even the systems be given just enough privileges to perform their task?

- a. Principle of operating system
- b. Principle of least privilege
- c. Principle of process scheduling
- d. None of the mentioned

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2. 2. _____ is an approach to restricting system access to authorized users.

- a. Role-based access control
- b. Process-based access control
- c. Job-based access control
- d. None of the mentioned

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3. 3. For system protection, a process should access _____

- a. all the resources
- b. few resources but authorization is not required
- c. only those resources for which it has authorization
- d. All of the mentioned

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4. 4. The protection domain of a process contains _____

- a. object name
- b. rights-set
- c. both object name and rights-set
- d. None of the mentioned

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5. 5. If the set of resources available to the process is fixed throughout the process's lifetime then its domain is _____

- a. static
- b. dynamic
- c. neither static nor dynamic
- d. both static as well as dynamic

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6. 6. Access matrix model for user authentication contains _____

- a. a list of objects
- b. a list of domains
- c. a function which returns an object's type
- d. All of the mentioned

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7. 7. In domain structure what is Access-right equal to?

- a. Access-right = read-name, write-set
- b. Access-right = object-name, rights-set
- c. Access-right = read-name, execute-set
- d. Access-right = object-name, execute-set

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8. 8. What does the access matrix represent?

- a. Rows-Domains, Columns-Objects
- b. Rows-Objects, Columns-Domains
- c. Rows-Access List, Columns-Domains
- d. Rows-Domains, Columns-Access list

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9. 9. Who can add new rights and remove some rights?

- a. Copy
- b. Transfer

- c. Limited copy
- d. Owner

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10. 10. Which of the following objects require protection?

- a. Memory
- b. Monitor
- c. Power supply unit
- d. All of the mentioned

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11. 11. What is a trap door in a program?

- a. A type of antivirus
- b. Security hole in a network
- c. A security hole, inserted at programming time in the system for later use
- d. None of the mentioned

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12. 12. File virus attaches itself to the _____

- a. source file
- b. object file
- c. executable file
- d. All of the mentioned

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13. 13. From the following, which is not a common file permission?

- a. Write
- b. Execute
- c. Stop
- d. Read

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14. 14. Which of the following is a good practice?

- a. Give full permission for remote transferring
- b. Grant read only permission
- c. Give both read and write permission but not execute
- d. Grant limited permission to specified account

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15. 15. Which of the following is a strong password?

- a. 19thAugust88
- b. Darshan025
- c. Engineering
- d. P@assword

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16. 16. Which happens first authorization or authentication?

- a. Authorization
- b. Authentication
- c. Authorization & Authentication are same
- d. None of the mentioned

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17. 17. What is theft of service?

- a. This type of violation involves unauthorized reading of data
- b. This violation involves unauthorized modification of data
- c. This violation involves unauthorized destruction of data
- d. This violation involves unauthorized use of resources

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18. 18. What is Trojan horse?

- a. It is a useful way to encrypt password
- b. It is a user which steals valuable information
- c. It is a rogue program which tricks users

- d. It's a brute force attack algorithm

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19. 19. What is trap door?

- a. It is trap door in WarGames
- b. It is a hole in software left by designer
- c. It is a Trojan horse
- d. It is a virus which traps and locks user terminal

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20. 20. What is used to protect network from outside internet access?

- a. A trusted antivirus
- b. 24 hours scanning for virus
- c. Firewall to separate trusted and untrusted network
- d. Deny users access to websites which can potentially cause security leak

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21. 21. Which of the following is/are Design Principles of Security?

- a. Principles of least privileges
- b. Principles of separation of privileges
- c. Principles of least common mechanism
- d. All of the mentioned

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22. 22. Which Design Principles of Security states that unless the subject is given explicit access to the object it should be denied access to that object?

- a. Principles of least privileges
- b. Principles of separation of privileges
- c. Principles of least common mechanism

- d. Principles of fail safe defaults

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23. 23. Which Design Principles of Security states that subject should be given only those privileges that it requires?

- a. Principles of least privileges
- b. Principles of separation of privileges
- c. Principles of least common mechanism
- d. Principles of fail safe defaults

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24. 24. Which Design Principles of Security states that all the accesses to object be checked in order to ensure that they are allowed?

- a. Principles of least privileges
- b. Principles of separation of privileges
- c. Principles of complete mediation
- d. Principles of fail safe defaults

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25. 25. What forces the user to change password at first logon ?

- a. Default behavior of OS
- b. Part of AES encryption practice
- c. Devices being accessed forces the user
- d. Account administrator

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26. 26. What is trap door?

- a. It is a secret entry point into a program
- b. It is a hole in software left by designer
- c. Both A and B
- d. None of the mentioned

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27. 27. Which one is not an antivirus?

- a. Norton
- b. Quick Heal
- c. AVG
- d. MS Office

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28. 28. _____ software is a type of program designed and developed to protect computers from malware like viruses, computer worms, spyware etc.

- a. System
- b. Antivirus
- c. Fighter
- d. Preventer

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29. 29. The functions of Antivirus programs is/are _____

- a. scan the system
- b. detect viruses
- c. remove viruses
- d. All of the mentioned

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30. 30. _____ confirms your identity to grant access to the system.

- a. Authentication
- b. Authorization
- c. Encryption
- d. None of the mentioned

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31. 31. _____ determines whether you are authorized to access the resources.

- a. Authentication
- b. Authorization
- c. Encryption
- d. None of the mentioned

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32. 32. When you log on to a PC with a user name and password you are _____

- a. authenticating
- b. authorizing
- c. Encrypting
- d. None of the mentioned

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33. 33. What is the fullform of virus?

- a. Vital Information Resources Under Size
- b. Vital Information Reads Under Seize
- c. Vital Information Resources Under Seize
- d. None of the mentioned