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Correct

Mark 1.00 out of 1.00

Modern secure password storage should implement:

- ☐ a. Hashed values of the password
- ☒ b. Salted and hashed values of the password
- ☐ c. Salted plain-text values of the password
- ☐ d. Plain-text passwords stored in an encrypted database



Your answer is correct.

The correct answer is:

Salted and hashed values of the password

Question **2**

Correct

Mark 1.00 out of 1.00

Why is one time password safe?

- ☐ a. It is easy to generate
- ☐ b. It cannot be shared
- ☐ c. It is a complex encrypted password
- ☒ d. It is different for every access



Your answer is correct.

The correct answer is:

It is different for every access

Question 3

Correct

Mark 1.00 out of 1.00

Which of the following can be used to prevent replay attacks in a password authentication system?

- ☐ a. Digital Signatures
- ☒ b. Hash Chains
- ☐ c. None of these answers are correct
- ☐ d. Encryption



Your answer is correct.

The correct answer is:  
Hash Chains

Question 4

Incorrect

Mark 0.00 out of 1.00

Which of the following is NOT an example of MFA?

- ☒ a. Using a Password and Push Notification Authentication
- ☐ b. Using a Password and an OTP code
- ☐ c. Using a Password and a Security Question
- ☐ d. Using an ATM Card with a Pin number



Your answer is incorrect.

The correct answer is:  
Using a Password and a Security Question

Question 5

Correct

Mark 1.00 out of 1.00

A research organisation uses a write-up, read-down access control policy with two security levels for “secret” and “top secret” researchers. Which of the following is false?

- ☒ a. Top secret researchers can create secret files but can not create public files
- ☐ b. Top secret researchers can view all files
- ☐ c. Secret researchers can create secret or top-secret files but can not create public files
- ☐ d. Secret researchers can view public or secret files, but can not view top-secret files



Your answer is correct.


The correct answer is:  
Top secret researchers can create secret files but can not create public files

Question 6

Correct

Mark 1.00 out of 1.00

Which of the following statements is false?

- ☐ a. Authenticity is a claim that the origin of some data is true
- ☒ b. Typically Authorization comes before Authentication 
- ☐ c. Visiting a website to purchase something online involves two-way authentication
- ☐ d. Challenge-response authentication is vulnerable to Man in the Middle Attacks

Your answer is correct.

The correct answer is:


Typically Authorization comes before Authentication

Question 7

Correct

Mark 1.00 out of 1.00

\_\_\_\_\_ verifies the identity of a user or service, and \_\_\_\_\_ determines their access rights. The two blanks should be filled with;

- ☐ a. Authentication and authenticity
- ☐ b. Authentication and ownership
- ☒ c. Authentication and authorization 
- ☐ d. Authentication and repudiation

Your answer is correct.

The correct answer is:

Authentication and authorization

Question 8

Correct

Mark 1.00 out of 1.00

An administrator needs to grant users access to different servers based on their job functions. Which Access Control model is the BEST choice to use?

- ☐ a. Discretionary access control
- ☒ b. Role-based access control
- ☐ c. Mandatory access control
- ☐ d. Content-based access control



Your answer is correct.

The correct answer is:

Role-based access control

Question 9

Correct

Mark 1.00 out of 1.00

Which access control model BEST describes “a user granting permissions to files on their personal device to another user”.

- ☒ a. Discretionary access control
- ☐ b. Mandatory access control
- ☐ c. Role-based access control
- ☐ d. Content-based access control



Your answer is correct.

The correct answer is:

Discretionary access control

Question 10

Correct

Mark 1.00 out of 1.00

By executing “chmod ug-w <file\_name>” the changed file permissions will be?

- ☒ a. Removing write permissions from the user and group
- ☐ b. Giving write permissions to the user and others
- ☐ c. Giving write permissions to the user and group
- ☐ d. Removing write permissions from the user and others



Your answer is correct.

The correct answer is:

Removing write permissions from the user and group

Question 11

Correct

Mark 1.00 out of 1.00

In Linux, what is the primary purpose of a group?

- ☒ a. To provide a way to organize and manage users with similar access rights
- ☐ b. There is no specific purpose for a group in Linux
- ☐ c. To restrict access to specific files or directories
- ☐ d. To determine the owner of a file or directory



Your answer is correct.

The correct answer is:

To provide a way to organize and manage users with similar access rights

Question 12

Correct

Mark 1.00 out of 1.00

Confused deputy problem is where,

- ☒ a. A subject is fooled into misusing its authority
- ☐ b. The reference monitor is confused about which permission to grant
- ☐ c. None of the choices is correct
- ☐ d. When the subject cannot be identified



Your answer is correct.

The correct answer is:

A subject is fooled into misusing its authority

Question 13

Correct

Mark 1.00 out of 1.00

Secure shell (SSH) network protocol is used for

- ☐ a. Remote command execution
- ☐ b. Secure data communication
- ☐ c. Remote command-line login
- ☒ d. All three choices are correct



Your answer is correct.

The correct answer is:

All three choices are correct

Question **14**

Correct

Mark 1.00 out of 1.00

Web Application Firewalls that block traffic based only on the current requests they receive fall under which of the following categories?

- ☐ a. Neither stateless nor stateful firewalls
- ☒ b. Stateless firewalls
- ☐ c. Both stateless and stateful firewalls
- ☐ d. Stateful firewalls



Your answer is correct.

The correct answer is:  
Stateless firewalls

Question **15**

Correct

Mark 1.00 out of 1.00

Which of the following is a good practice?

- ☐ a. Give read and write permission but not execute permissions by default
- ☒ b. Grant least privilege permissions for a specific role
- ☐ c. Always grant read-only permissions
- ☐ d. Give full permission for remote transferring



Your answer is correct.

The correct answer is:  
Grant least privilege permissions for a specific role

Question **16**

Correct

Mark 1.00 out of 1.00

What happens if a directory has the "execute" permission disabled for a user?

- ☒ a. The user cannot access the contents of the directory using "cd" command
- ☐ b. The user can access and list the contents of the directory, but cannot modify or rename files within it
- ☐ c. The user can access and list the contents of the directory, but cannot create or delete files within it
- ☐ d. The user can access, list, and modify the contents of the directory normally



Your answer is correct.

The correct answer is:  
The user cannot access the contents of the directory using "cd" command

Question 17

Correct

Mark 1.00 out of 1.00

What does this command do when applied in Ubuntu Linux? `sudo ufw deny from any to any port 21 proto tcp`

- ☒ a. Blocks FTP traffic
- ☐ b. Blocks SSH traffic
- ☐ c. Blocks HTTP traffic
- ☐ d. Blocks SMTP traffic



Your answer is correct.

The correct answer is:

Blocks FTP traffic

Question 18

Incorrect

Mark 0.00 out of 1.00

You are required to block packets originating from a certain source. What type of firewall can you use?

- ☐ a. Stateful firewall
- ☒ b. Stateless firewall
- ☐ c. Both stateless and stateful firewalls can be used
- ☐ d. Neither stateless nor stateful firewalls can be used



Your answer is incorrect.

The correct answer is:

Both stateless and stateful firewalls can be used

Question 19

Correct

Mark 1.00 out of 1.00

What happens to network traffic when an iptables rule matches, and the action is set to "DROP"?

- ☒ a. The traffic is dropped without any response to the source
- ☐ b. The traffic is redirected to a different destination
- ☐ c. The traffic is accepted and forwarded to the destination
- ☐ d. The traffic is rejected and an error message is sent to the source



Your answer is correct.

The correct answer is:

The traffic is dropped without any response to the source

Question **20**

Correct

Mark 1.00 out of 1.00

You are reviewing web application firewall logs and you notice a lot of %27 and single quotation marks in the requests. What type of attack could this be?

- ☐ a. None of the choices are correct
- ☐ b. XSS
- ☒ c. SQL injection
- ☐ d. Path traversal



Your answer is correct.

The correct answer is:  
SQL injection

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