**Cyber Security**

**Threats, attacks and vulnerabilities**

**Quiz**

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Candidates should complete ALL questions

1. What is a threat?

a) A weakness in a system that can be exploited

b) An unauthorized attempt to gain access to a system

c) A potential danger to a system or network

d) A piece of malicious software

2. What is an attack?

a) A potential danger to a system or network

b) A weakness in a system that can be exploited

c) An unauthorized attempt to gain access to a system

d) A piece of malicious software

1. What is a vulnerability?

a) A potential danger to a system or network

b) An authorized attempt to gain access to a system

c) A weakness in a system that can be exploited

d) A piece of malicious software

1. Which of the following is an example of a threat?

a) An employee leaving their computer unlocked

b) A hacker trying to break into a system

c) A software bug that causes a program to crash

d) A phishing email that tricks a user into revealing their login credentials

1. Which of the following is an example of an attack?

a) A software bug that causes a program to crash

b) A hacker trying to break into a system

c) An employee accidentally deleting important files

d) A server going down due to a power outage

1. Which of the following is an example of a vulnerability?

a) A firewall blocking unauthorized traffic

b) A user with weak passwords

c) A system administrator performing regular backups

d) A computer virus infecting a system

1. What is a zero-day vulnerability?

a) A vulnerability that has been known and patched for many years

b) A vulnerability that is yet to be discovered

c) A vulnerability that has been exploited in the wild

d) A vulnerability that is easy to exploit

1. Which of the following is a type of attack that uses malicious software to encrypt a victim's files and demand payment for their release?

a) DDoS attack

b) Ransomware attack

c) Social engineering attack

d) SQL injection attack

1. What is a DDoS attack?

a) An attack that uses malicious software to encrypt a victim's files and demand payment for their release

b) An attack that overwhelms a system or network with traffic in order to make it unavailable

c) An attack that tricks users into revealing their login credentials

d) An attack that exploits a vulnerability in a web application to gain access to a database

1. What is a social engineering attack?

a) An attack that exploits a vulnerability in a web application to gain access to a database

b) An attack that overwhelms a system or network with traffic in order to make it unavailable

c) An attack that tricks users into revealing their login credentials

d) An attack that uses malicious software to encrypt a victim's files and demand payment for their release