

Data Level Protection 2 & Finding Weaknesses

Task 1

(a) What do we mean by the term “Device Hardening”?

(b) Below are three statements regarding backup & recovery. Identify which of these statements are true and which are false.

	True	False
1. Backups should be performed once a day.	<input type="checkbox"/>	<input type="checkbox"/>
2. Backups should be stored in a remote location.	<input type="checkbox"/>	<input type="checkbox"/>
3. Cloud storage is an example of a remote backup location.	<input type="checkbox"/>	<input type="checkbox"/>

(c) Backups are an effective method of protecting yourself against the threat of human error. Explain how this statement is true?

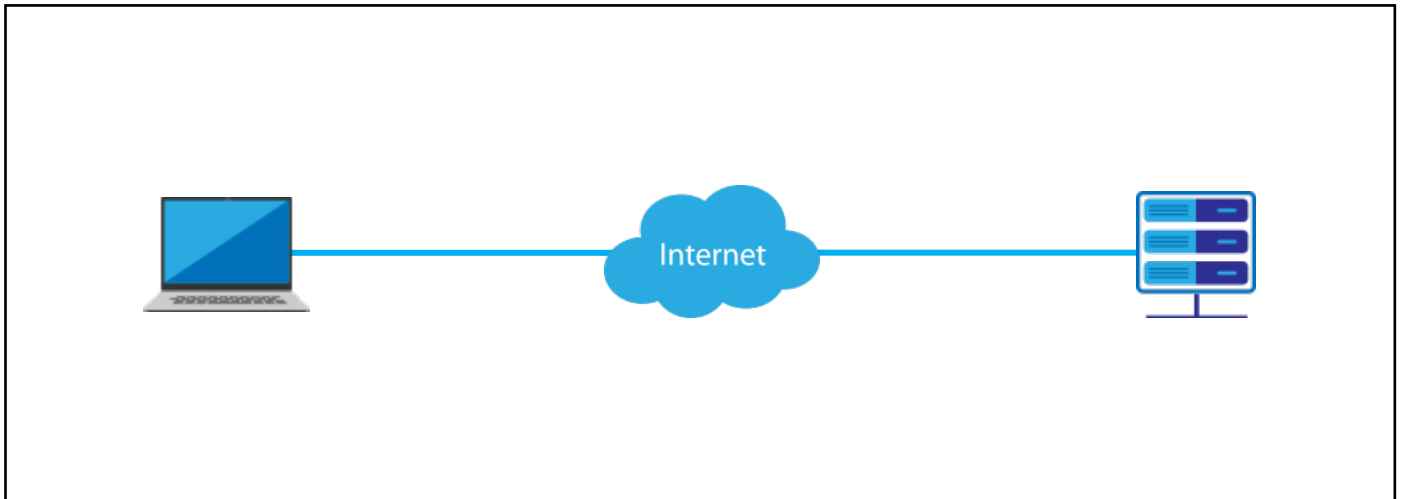
Task 2

(a) What do we mean by the term “encryption”?

(b) Websites will often use encryption to protect the data you are transferring to the website. Below is an example of such a website. Annotate on the drawing to show you know that it is using encryption.



(c) A common method of encrypting data during transmission is using public key encryption. Use the diagram below to explain how public key encryption works.



Task 3

(a) Some hackers are known as Ethical Hackers. These can be split into two categories. White-hat hackers and grey-hat hackers. Explain what the difference is between these two types of ethical hackers.

White-hat hackers _____

Grey-hat hackers _____

(b) List below three different techniques used for penetration testing.

1. _____

2. _____

3. _____

(c) Jasmine is in charge of IT security for a medium sized law firm. She is considering hiring an ethical hacker to find weaknesses with the company's current IT security procedures. Discuss whether this would be a good idea to do.
