# Activity sheet 3.17: What happens after an attack?

*Learning outcome B: Cyber security*

*B1: Threats to data*

1. The Green Surgery is a GP surgery in a large town. Recently, it was the subject of a hacking attack by an 18-year-old student. The student gained access to patient records and posted some of the data obtained on a social media site to prove to her friends that she had the ability to hack into computer systems.

Describe the possible consequences to The Green Surgery of this attack.

1. PCB Services designs Printed Circuit Boards (PCBs) for clients. These are used to connect computing devices such as memory chips. PCB Services has recently designed a PCB for a client that would help to reduce both the size and power consumption of a smartphone.   
   Last week their systems were hacked and the designs for the new PCB were stolen.

Describe the possible consequences to PCB Services of this attack.

1. Luke Thomas recently followed a link in an email and downloaded a ransomware program that was not detected by his out-of-date anti-virus program. Luke’s computer screen then displayed a message that all his personal files were now encrypted and would not be released to him unless he paid £200.

Describe the possible consequences to Luke of this attack if:

1. he pays the ransom

1. he does not pay the ransom.

1. MyShop is a large internet-only retailer. Recently, it was the victim of a distributed denial-of-service (DDoS) attack on its website. The attack happened on Black Friday, a day when shops aim to attract customers by using special offers and discounts.

Describe the possible consequences to MyShop of this attack.

1. YourBox is an online TV streaming service. Users pay a monthly fee to be able to stream live and use catch-up TV services on their personal devices. The service has over 100,000 members. Recently, hackers stole the membership details of over 30,000 of these members. Details stolen included names, addresses, date of birth, usernames, passwords, email addresses and card payment details.

Describe the possible consequences to YourBox and its customers of this attack.

1. YourBox

1. Customers

**Take it further**

Research three recent high-profile attacks on organisations and their computer systems.

* What was the reason for each attack?
* Who was affected by the attack?
* What impact will each attack have on those affected by it?