**Question 1 (20 marks) – Identifying network design faults**

Jim has given you a diagram showing the current state of the network using the only tool he has available to him: PowerPoint.

Examine the associated PowerPoint file and write a report identifying and describing any problems you find. (300-400 words)

**Question 2 (20 marks) – Improving network design**

Jim is impressed by your report and asks you to write a proposal to improve the network, although his budget is limited, he tells you that if you can justify your design choices you may be able to purchase some more equipment.

You will need to provide a new network design diagram in PowerPoint format, thankfully Jim has included a couple of slides with various network equipment elements that you can use as templates.

What would you recommend? Justify your recommendation. (300-400 words)

**Question 3 (20 marks) – Security**

Whilst doing your evaluation Soylent Co suffers a data breach. Jim asks you to add any necessary security controls to your design. As you do so you also become aware of cross departmental security issues as the engineering department are able to see all the human resources information on the file server. What controls do you put in place to rectify these problems? (300-400 words)