# Task

You have been asked to design and implement an office networking solution. The office has the following staffing makeup:

* One Managing Director
* Two people are working in sales/account management.
* Two project managers
* Two business analysts
* Two user-experience designers
* Six software developers
* Two system administrators

The office also has the following physical requirements:

* Management and sales work in one large office space.
* Analysts, User Experience, and Developers work in another large office.
* System Administrators work in a smaller office.
* The company internally hosts the following services:
  + internal email
  + A business server - which has a web service and FTP
  + Two additional servers:
    - development - which has a web service and FTP
    - production - which also has a web service and FTP (production is a mirror of the live service)

The client has the following requirements, if possible:

* For security reasons:
  + Management and sales should only be able to access email, the business server, and the external internet. They should not be able to access any other part of the business. They get their IP allocated by DHCP. Their devices are laptops and mobile phones.
  + Analysts, user experience, and software can access email, development servers, and the internet. They should not be able to access any other part of the system. They get their DHCP allocated by IP. Their devices are laptops.
  + System Admins should be able to access the entire internet. Their devices are PCs.
* The business has the following IP address range 10.13.37.0/24

## **Instruments of assessments**

The heart of Networking and Security is designing and implementing network solutions that meet your client's needs.

### Assessment Guide

* NOTE: The "internet" can be a final router.
* Your network environment must include "boxed areas" which have the details for that part of the network (IP range, gateway,
* Each part of the network is isolated from each other appropriately.
* You should choose the most appropriate solutions for your client’s needs.