SE3CN11, Computer Networking.

2015/16 Group Coursework definition

Process

In this activity, the class will be split into groups of approximately 6 students. Actual grouping will be posted on Blackboard. As a team you will:

1. Create and present an oral presentation to the “client”
2. Submit one group specification document.

Every student is expected to contribute to the success of the activity. While it is up to the team to decide how to distribute the sub-tasks to members of the team, it is expected that every student will contribute to both the oral presentation and the designed group specification document.

Definition

Your team works for a networking facilitation/consulting company. Your company has won a tender from a start-up company “PrintmeNow” to specify a networking solution for them. PrintmeNow will have a website for customers to upload files to be 3D printed. PrintmeNow will return by post the 3D object to the address supplied. Customers will need to pay for their object and postage when they order via PayFriend, an on-line payment company. PrintmeNow are going to rent 1 office for sales with 3 sales personnel, 1 neighbouring office for 4 technical support and website staff and a 50m\*50m workshop situated 200m away from the offices to house the printers and packaging operations with 2 staff. PrintmeNow wish to host the website themselves, rather than a cloud service. Two primary file stores are needed to host the uploaded design files (one primary and one backup) and they predict they need 8 3D printers initially, but request capacity in the network for “suitable” expansion. They expect to print 25 objects per day, initially. Each staff member is to have “suitable” internet and intranet access to perform their duties accordingly.

Your group is to specify a suitable network, physical layout, security, external connections, suitable office needs and arrangements for the workshop for the company. To do this please bear in mind:

1. PrintmeNow only rent their space. Cabling and equipment should not be significantly intrusive to the building.
2. You need not be concerned with the website software and website page content.
3. You do not need to specify an exact model and manufacturer for any hardware or software, rather focus on the function of the devices.

Assignment.

The group oral presentation will inform the client of your proposed networking architecture and the single group report will be a formal specification of your proposed solution.

The group assignment will contribute 30% of the coursework mark for this module. The group report 70%.