

Network Fundamentals (NETF) Assignment

Rest & Relax Designs Pte Ltd is a company that provides residential and commercial interior design services. The staff strength is ninety. One CEO, two directors, three deputy directors, fifteen office administrative staff, two IT staff, twenty two senior interior designers and forty five interior designers.

A project may be handled by one interior designer or by a group of interior designers. The interior designers often need to access each other's work to effectively work on the projects.

The CEO, directors, deputy directors and interior designers need to access their designs and documents from home.

Data security is also a major concern and thus these designs and documents should not be accessible to other people on the Internet.

Staff need a facility to print out their designs, bills, invoices, etc.

The company leased five units (#06-123, #07-123, #07-125, #08-123 and #08-125) at Bell Towers. The company occupies one unit on level 6, two units on level 7 and two more units on level 8.

#08-123	#08-124	#08-125
#07-123	#07-124	#07-125
#06-123	#06-124	#06-125

The scope of this proposal is to design a network for Rest & Relax Designs Pte Ltd that will allow them flexibility in the following areas:

- File and Print services
- Internet access
- Remote access to office network
- Security
- Data Backup
- Network Scalability
- High Availability/Fault tolerance

You may recommend any other services that are beneficial to the company.

Assignment Task

To help design a network for the company. Write a report of not more than 8 pages to propose a network setup for the company. Your report should include items 1 – 4 as shown below:

1	The benefits of having a network in the company	20%
2	A suitable Internet access plan for the company (including the costs). Give reasons for your choice.	10%
3	The proposed network setup (give reasons for your choices) (a) Network topology, protocols and communications media used (b) Hardware recommendations (c) Software recommendations (d) Additional information e.g. security issues, user training, future expansion plans, etc.	40%
4	Network diagram illustrating your proposed network setup	20%
5	Individual contribution	10%

Assignment Due Date

A stapled hardcopy of your report is to be submitted by **7 Feb 2020, 5pm (Fri)**.

Submission Details

Deadline: **7 Feb 2020, 5pm (Fri)**

Submit through: Dropbox at T20 Level 4

Late Submission

50% of the marks will be deducted for assignments that are received within ONE (1) calendar day after the submission deadline. No marks will be given thereafter.

Exceptions to this policy will be given to students with valid LOA on medical or compassionate grounds. Students in such cases will need to inform the lecturer as soon as reasonably possible.

Students are not to assume on their own that their deadline has been extended.

Assignment weightage

This assignment contributes 20% to your final grade.

Group Size

2 members.

*** IMPORTANT ***

You are to ensure that the work submitted is your own original and you are reminded to give credits to any reference to materials from books, the Internet or works from other sources, etc.

“Plagiarism occurs when you take sentences or paragraphs or even the whole article written by another person and pass it off as your own work without acknowledging the author or original source. This is actually cheating and will not be condoned by the Polytechnic.”

(Source: Singapore Polytechnic's Student Handbook)