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Assessment Details and Submission Guidelines	
Unit Code	BN305
Unit Title	Virtual Private Networks
Assessment Type	Group (maximum of 3 students in one group)
Assessment Title	Secure Network Design and Implementation
Purpose of the assessment (with ULO Mapping)	This assignment assesses the following Unit Learning Outcomes; students should be able to demonstrate their achievements in them. • Describe architectural VPN design for small, medium and large businesses and corporations • Report on the health of the existing VPN architecture, solution, data, application, and technology • Discuss the appropriate security design and solutions for varieties of organisations • Report on the current and future state of the management of VPN infrastructure and its technologies • Interpret a roadmap process to transform the VPN architecture to support long-term organisations' goals • Implement a process to support the administration and the management of VPN
Weight	15%
Total Marks	40
Word limit	See the instructions.
Due Date	Tuesday 11:55pm i.e. 28th of May 2019
Submission Guidelines	• All work must be submitted on Moodle by the due date along with a completed Assignment Cover Page. • The assignment must be in MS Word format, 1.5 spacing, 11-pt Calibri (Body) font and 2 cm margins on all four sides of your page with appropriate section headings. • Reference sources must be cited in the text of the report, and listed appropriately at the end in a reference list using IEEE referencing style.
Extension	• If an extension of time to submit work is required, a Special Consideration Application must be submitted directly to the School's Administration Officer, in Melbourne on Level 6 or in Sydney on Level 7. You must submit this application three working days prior to the due date of the assignment. Further information is available at: http://www.mit.edu.au/about-mit/institute-publications/policies-procedures-and-guidelines/specialconsiderationdeferment
Academic Misconduct	• Academic Misconduct is a serious offence. Depending on the seriousness of the case, penalties can vary from a written warning or zero marks to exclusion from the course or rescinding the degree. Students should make themselves familiar with the full policy and procedure available at: **http://www.mit.edu.au/about-mit/institute-publications/policies-procedures-and-guidelines/Plagiarism-Academic-Misconduct-Policy-Procedure**. For further information, please refer to the Academic Integrity Section in your Unit Description.

Assignment Description

Tasks:
There are two parts to this assignment, i.e. part A and part B.

1. Investigate, design and develop a suitable VPN network for a fictitious company in Australia (CyberVision Inc.) by addressing the following criteria. See detailed instruction in the next section. (35 marks)
2. Presentation. (5 marks)

Note:

Only one report for part A and one presentation slide for part B per group should be submitted. As this is a Group Assignment make sure the contribution made by each student is clearly mentioned in the front page of the report. Each student in the group must make sufficient contribution. The report must be properly formatted and have a table of contents.

Part A description: (35 marks)

CyberVision Inc. is a fictitious company in Australia and currently operating in Sydney. Recently, CyberVision Inc. is planning to expand their operations in Melbourne. You have been contracted to analyse various options and develop a VPN network design so that both sites can be connected securely. This is in addition to remote users who should be able to access their work from the company site while travelling.

1. Design a network for CyberVision Inc.
2. Build VPN services for the users. The network solution would be built on a simulator (such as Packet Tracer or NetSim) and include establishing a VPN from remote site to main branch in Sydney

Report must include:

- Introduction
- Scopes and Limitations
- Requirements (Network parts and VPN service parts)
- Solution Design
  - Logical Design
  - Physical Design
  - Network Topologies
  - IP addressing
  - Security features and Policies
  - Redundancy and Failover plans
  - VPN service Deployment and implementation
- Refer the sample document included in below for network design, and consider how to deploy and implement relevant VPN services onto the network. You need to choose the right type of VPNs and protocols that satisfy the requirements for remote and branch to branch connectivity.

Part B description: (5 marks)

Presentation slides should be submitted in Moodle prior to the presentation for marking. No other options (e.g. hard copy, memory stick, website, email etc) will be considered but the presentation file submitted in Moodle. Students need to demonstrate their work in Lab 11. The demonstration will include viva voce (oral test) questions as well. The final mark of Part A of this assignment might be reduced to half based on students' presentation.

Marking criteria:

Section to be included in the report and demonstration	Description	Marks
Identification and Analysis and description	Correctly identifying, appropriateness, discussion The document should include all necessary headings and contents to depict a VPN services and network design as per the example provided	5
Design Explanation/justification	Description and justification This section should include proper headings and contents to propose a solution for a VPN network. Wireless LAN solution needs to be included. The design of this scenario should be unique and not overlapping with other group	15
Implementation	Implementation of the network solution should include VPN and based on the specified design	12
Presentation	Presentation slides should be well organised and presentation should be delivered well.	5
References	References should follow IEEE Style	3
Total		40

Marking Rubric

Grade Mark	HD 32-40	D 28-31	CR 24-27	P 20-23	Fail <20
	Excellent	Very Good	Good	Satisfactory	Unsatisfactory
Identification and Analysis and description /5	Highly valid and appropriate	Valid and appropriate	Generally valid and appropriate	Valid but no appropriate	Not valid and not appropriate
Explanation/ justification /20	All elements are present and well integrated.	Components present with good cohesion	Components present and mostly well integrated	Most components present	Lacks structure.

Prepared by: *ABM Russel* Moderated by*: Noor-U-Zaman* *April, 2019*

Presentation /5	Presentation slides were very good and well presented.	Presentation slides were good well presented.	Presentation slides were organised and presented.	Presentation was given.	Did not present.
Reference style /5	Clear styles with excellent source of references.	Clear referencing/ style	Generally good referencing/sty le	Unclear referencing/styl e	Lacks consistency with many errors

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