Unit 9 Assignment 1: Internet Technologies Review

Course Objectives and Learning Outcomes

- Identify the major needs and major stakeholders for computer networks and network applications.
- Identify the classifications of networks and how they are applied to various types of enterprises.
- Explain the functionality and use of typical network protocols.
- Analyze network components and their primary functions in a typical data network from both logical and physical perspectives.
- Differentiate among major types of LAN and WAN technologies and specifications and determine how each is used in a data network.
- Explain basic security requirements for networks.
- Use network tools to monitor protocols and traffic characteristics.
- Plan and design an IP network by applying subnetting skills.
- Assess a typical group of devices networked to another group of devices through the Internet, identifying and explaining all major components and their respective functions.
- Relate how different technologies are used to access the Internet.
- Define how IP routing is used in the Internet to move data from source to destination.
- Define classless routing.
- Evaluate the need for NAT, PAT, CIDR, and IPv6 in current networks.

Assignment Requirements

In the Chapter Review Activities at the end of Chapter 9 in the Odom textbook (answers can be found in the textbook):

- Respond to the multiple-choice questions.
- Complete the Define Key Terms table.
- Complete the Words Inside Acronyms table.

Required Resources

- Odom textbook
- Computer with word processing software
- Internet access
- Printer

Submission Requirements:

Submit your responses as a typed document using Arial or Times New Roman 12-point font, double-spaced. Label your assignment Unit 9 Assignment 1. This assignment will be due in Unit 10.