FIT9137 Applied Week 12

Topics:

- Accessing the Internet
    - ADSL, Cable, NBN & Wireless Internet
    - NAT
    - Internet Structure, Autonomous Systems (AS)
    - Content Delivery Networks (CDN)

Covered Learning Outcomes:

- identify and describe fundamental concepts of Internet access technologies, Autonomous Systems, Network Address Translation (NAT), and Content Delivery Networks (CDN)

Instructions

- One of the main purposes of an applied session is to build the learning community, create connections and include the learners. The other goal is to give and receive feedback from your peers and or your tutors.
- Form groups of 2 students (online) or more for face-to-face to work through the exercises. If met a problem, try to solve it by asking direct questions to your peer. If the issue was not solved within peers, ask your tutor. If did not get a chance to solve the problem during your applied session with your peer or tutor, jump into one of many consultation hours and ask any of the tutors to help you. Please visit the "Teaching Team and Unit Resources" tile in the FIT9137 Moodle site.

1. **Compare and contrast these Internet access networks?**

    A. **DSL (Digital Subscriber Line)**

    B. **Asymmetrical Digital Subscriber Line**

    C. **Cable internet access**

2. **What's a National Broadband Network (NBN)?**

3. **What Wireless Internet access technologies are available?**

4. **Explain what's Network Address Translation (NAT) and why it is used?**

5. **Explain the operation of NAT?**

6. **Explain these concepts:**

    A. **structure of the Internet**

    B. **An autonomous system (AS)**

    C. **Border Gateway Protocol (BGP)**

    D. **Content Delivery Networks**