

Computer Networks and the Internet

Part 1: Watch videos

Watch the videos #28 and #29 from *Crash Course Computer Science*: [Computer Networks](#) and [the Internet](#)

Step 2: Answer Questions

1. Who set up your home Internet connection? Can you figure out which technology you use to connect to the Internet from home? How can you determine the maximum downstream and upstream bandwidth offered by your provider?
2. What system is faster on propagating data: DSL, Cable or Fiber?
3. If you have a LAN at home, who set it up? Which technologies do you use to connect devices to it?
4. How is each device uniquely identified in a local area network? How many bits are used to identify such a device?
5. List 3 wireless technologies and give some examples of their use in everyday life.
6. Do phones also have an IP? What is the unique identifier of a cell phone called?
7. What is the current IP address of your computer? Does it have a Domain Name associated with it? Why or why not?
8. What is the URL of Vanier College's website? What is the top-level domain in the URL? What are some other common top-level domain names?
9. Is it possible for the same IP address (or the same email, or the same website) to be reachable on the Internet through different domain names? If so, how?
10. Using the website whois.domaintools.com, answer the following questions:
 - Who is the Registrant Organization of domain `gnu.org`?
 - What is the ICANN accredited company that provides this domain for them?
 - When will the `gnu.org` domain expire?