

# Chapter 1: Exercises for applications, services, classifications, and standards

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1. List three activities that you do every day in which computer networks are used.
2. Identify three networks that can provide Internet connectivity in our classroom.
3. Find three companies that offer cloud services, and describe the services provided by each of them.
4. Find three peer-to-peer systems, and describe the services provided by each of them.
5. Find three companies that offer CDN services, and describe the main services provided by each of them.
6. Survey the following wireless networking technology and find the standard, most common frequency spectrum, channel bandwidth, maximal data rate, and typical communication range. Use a table to include all your findings.

Table 1: Survey of Some Standards for Wireless Networks

Network	Standard	Spectrum	Bandwidth	Max. Data rate	Range
Zigbee					
NFC					
Wi-Fi 5					
WiGig					

7. IETF is an organization that established a lot of standards for the Internet. In IETF website, find the RFC codes for the main version of the following standards.
  - (a) TCP (version 1981)
  - (b) IP version 4 (version 1981)
  - (c) FTP (version 1985)
  - (d) MPLS (version 2001)
  - (e) HTTP/1.1 (version 2014)