**Net 1060 Introduction to Networks Lab: # 3.4.4**

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**Follow the instructions down below for the lab itself. For this lab, all answers need to be in blue font. For the questions right below, answer in complete sentences. You will also have to copy and paste your running configurations of each device configured to the bottom of this document. Let the instructor know if you have any questions.**

***Lab Analysis Report***

1. Using complete sentences summarize work you completed during the lab.

I did research on the worlds different organizations controlling the internet.

2. Using complete sentences describe what you learned from the lab. Hint; look at the lab objectives listed at the top of the lab section.

I learned about all the different organizations in charge of keeping the internet cooperative as well as ensuring it has a future.

***Problems Encountered***

1. Using complete sentences describe any problem(s) experienced during lab.

No problems

2. Using complete sentences describe how you solved your problem(s).

No problems

3. Using complete sentences explain if you needed any assistance with the lab; then list what you learned from that assistance.

No problems

Lab - Research Networking Standards

# Objectives

* **Research Networking Standards Organizations**
* **Reflect on Internet and Computer Networking Experiences**

# Background / Scenario

Using web search engines like Google, research the non-profit organizations that are responsible for establishing international standards for the internet and the development of internet technologies.

# Required Resources

Device with internet access

# Instructions

## Research Networking Standards Organizations

In this step, you will identify some of the major standards organizations and important characteristics, such as the number of years in existence, the size of their membership, the important historical figures, some of the responsibilities and duties, organizational oversight role, and the location of the organization’s headquarters.

Use a web browser or websites for various organizations to research information about the following organizations and the people who have been instrumental in maintaining them.

You can find answers to the questions below by searching the following organizational acronyms and terms: ISO, ITU, ICANN, IANA, IEEE, EIA, TIA, ISOC, IAB, IETF, W3C, RFC, and Wi-Fi Alliance.

### Questions:

* 1. Who is Jonathan B. Postel and what is he known for? He was known as “The god of the internet”. He is responsible for SMTP and for administrating the Internet assigned numbers authority.
  2. Which two related organizations are responsible for managing the top-level domain name space and the root Domain Name System (DNS) name servers on the internet? The IANA Internet Assigned Numbers Authority, and the ICANN Internet Corporation for Assigned Names and Numbers.
  3. Vinton Cerf has been called one of main fathers of the internet. What internet organizations did he chair or help found? What internet technologies did he help to develop? He helped develop TCP/IP protocol with bob Kahn. He also helped establish ICANN.
  4. What organization is responsible for publishing Request for Comments (RFC)? The IETF
  5. What do RFC 349 and RFC 1700 have in common? Both have an assigned number and have wide standard functions.
  6. What RFC number is the ARPAWOCKY? What is it? 527. An April fools RFC document posted every year.ers here.
  7. Who founded the World Wide Web Consortium (W3C)? Tim Berners-Lee at MIT.
  8. Name 10 World Wide Web (WWW) standards that the W3C develops and maintains? SSML, SVG, VoiceXML, XHTML, XHTML+Voice, XML, XML Events, XML Information Set, XML Schema, Xpath.

Type your answers here.

* 1. Where is the Institute of Electrical and Electronics Engineers (IEEE) headquarters located and what is the significance of its logo? Located in New York City. It is a diamond shaped design of the right hand grip rule from Benjamin Franklins kite.
  2. What is the IEEE standard for the Wi-Fi Protected Access 2 (WPA2) security protocol? IEEE 802.11i standard.
  3. Is the Wi-Fi Alliance a non-profit standards organization? What is their goal? It is a non profit organization promoting wireless technology and wireless networking.
  4. Who is Hamadoun Touré? He was the Secretary-General of the International Telecommunication Union.
  5. What is the International Telecommunication Union (ITU) and where is it headquartered? The ITU’s role is to get the countries of the world to cooperate and participate in a global communications satellite system. It’s headquarters is in Geneva Switzerland.
  6. Name the three ITU sectors. Radi Communications (ITU-R), Standardization (ITU-T) and Development (ITU-D)
  7. What does the RS in RS-232 stand for and which organization introduced it? It stands for Recommended Standard 232. It was introduced by the electronic industries association.
  8. What is SpaceWire? It is a spacecraft communication network based on the IEEE 1355 Standard.
  9. What is the mission of the ISOC and where are its headquarters located? Their mission is to ensure the open development, use, and evolution of the internet for everyone.
  10. What organizations does the IAB oversee? The IAB oversees the technical evolution of the internet. They supervise the IETF and IRTF.
  11. What organization oversees the IAB? The ISOC (The Internet Society)
  12. When was the ISO founded and where are its headquarters located? It was founded in 1947 and the HQ is located in Geneva Switzerland.

## Reflect on Internet and Computer Networking Experiences

Take a moment to think about the internet today in relation to the organizations and technologies you have just researched. Then answer the following questions.

### Questions:

1. How do the internet standards allow for greater commerce? What potential problems could we have if we did not have the IEEE? Without the IEEE, the world would more than likely no cooperate together to work on the internet as a whole. Instead it would be more divided.
2. What potential problems could we have if we did not have the W3C? The long term growth of the internet would be in trouble. We would also not get the information we needed with using the internet.
3. What can we learn from the example of the Wi-Fi Alliance with regard to the necessity of networking standards? Following the same standards encourages competition, which is always good for the consumer.

Type your answers here.

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