LAB#01 EXERCISES

NOTE: Use the appropriate networking commands to solve these networking problems.

1. **Find the IP address of the computer you are currently using.**

   Command:

   IP address:

2. **Find the IP address of the computer you are currently using, plus MAC address, plus whether DHCP is turned on.**

   Command:

   Answer:

3. **Display the host name of the computer.**

   Command:

   Hostname:

4. **Check for basic IP connectivity between two computers by name and IP address. How can basic IP connectivity be checked? What are the reasons why there is no connectivity?**

   Command:

   Reason:

5. **Show the MAC address of the host.**

   Command:

   MAC address:

6. **Show what shared resources are available on the host.**

   Command:

   Answer:

7. **Find out which ports on your host are connected to applications. Connect the browser to some external web page before running the appropriate command.**

   Command:_____

   Answer: _____

8. **Find all other hosts available on the network.**

   Command:_____

   Answer: _____

9. **Show the address of the gateway.**

   Command:_____

   Answer: _____

10. **Find the path of routers to www.google.com.What is its IP address? How many hops involvedin the path?**

    Command: _____

    Answer: _____

11. **A ping to 192.168.0.2 works but a ping to the machine's name "blue machine" fails. Whatcould be wrong?**

Reason:

   _____

   _____

12. Which type of cable will you use to connect in a normal home installation? Give reasons.

Answer:

_____

_____

13. Can you connect a Switch to another Switch or a router to a PC using a straight-through cable? Explain your answer.

Answer:

_____

_____

14. Write a brief report on your home network or any organizational networkincluding topology, 1 page max).

Answer:

_____

_____

15. Find the path of routers to www.yahoo.com What is its IP address? How many hops involved in the path?

Answer:

_____

_____

INSTRUCTOR

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