

Lab Assignment1- Networking Commands

Access the Lab using the given Lab Access Link and Use the Networking commands, learned so far to complete the following exercises.

1. Use any networking command you have studied,
 - In order to send a packet to a host (your institute website address) with the size of 60000 bytes each. We wish to send the packets repetitively. In order to send a packet with a size of 1000 bytes and don't permit fragmenting.
 - In order to send a packet with a size of 1000 bytes and permit fragmenting.
 - In order to use the loose route to a destination.
 - In order to use the strict route to a destination.
 - Test the reach ability towards a machine (using ip address) with the fragmenting option enabled and limit the number of echoes to 5.

Hint: (Hint: use various options of ping command)

2. Find the route from your PC to a popular website. (Use the tracert command)
3. Find the route from your PC to another popular website.
4. Using the answers above (Q 2 & 3), determine what is the first device your packet reaches to move from our network lab.
5. Open a browser connection to any website of your choice and write down the outcome of the command '**netstat -an**'. (Hint: the port number 443 or 80 must show the ip address/name of the website visited with the established state)

6. Find out the entries on your system regarding IP addresses and their matching physical addresses. (Hint: Use ARP command)
7. Find out the TCP/IP configuration of your system. (Hint: Use ipconfig/ifconfig command)

Submission Note: Students are required to solve the above-written problems using various networking commands, prepare a word/pdf document including screenshots of the output of the command (question-wise) and submit it.