LAB: Assignment 3

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**Objective: To understand some Networking Commands**

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| --- | --- | --- | --- | --- |
| hostname | ipconfig | getmac | ping | arp |
| nbtstat | route | path | pathping | netstat |
| tracert |  |  |  |  |
|  |  |  |  |  |

Practice the command mentioned in above table and fill in the blanks below:-

|  |  |
| --- | --- |
| **Command** | **Working** |

1. ping : command is one of the most often used networking utilities for detecting devices on a network and for troubleshooting network problems.
2. hostname : command that displays the host name of your machine
3. ipconfig : frequently used utility that is used for finding network information about your local machine like ip addresses, dns addresses etc.
4. nbtstat : diagnostic tool for troubleshooting netbios problems
5. netstat : used for displaying information about tcp and udp connections and ports.
6. getmac : command that shows the mac address of your network interfaces
7. arp : for showing the **address resolution cache**. this command must be used with a command line switch **-a** is the most common.
8. tracert : command prints the path. if all routers on the path are functional, this command prints the full path.
9. path : command specifies the location where ms-dos should look when it executes a command.
10. route : command allows you to make manual entries into the network routing tables.
11. pathping : after sending out packets from you to a given destination, it analyzes the route taken and computes packet loss on a per-hop basis.