

SEM 2 2022/2023 (A221)

## MTN 3023 Computer Networking

LAB REPORT NO: 1 / 2 / 3 / 4

Name:	Mohd Izzul Ikhwan bin Mohd yusof	
Matric Number: _	D20201095609	
Lecture Group: A	<del>/B/C</del> /D/ <del>E</del>	

Lecturer: Ts. Dr. Nazre bin Abdul Rashid / Dr. Octa Nurika



# SEM 1 2022/2023 (A221)

## MTN3023 Computer Networking

#### LAB SHEET 1:

BASIC WINDOWS NETWORKING COMMAND/UTILITY

#### Prepared by:

Ts. Dr. Nazre bin Abdul Rashid

Dr. Okta Nurika

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## Objectives:

- 1. Demonstrate the use of command prompt in Windows environment.
- 2. Introduce four (4) basic command/utility related to Computer Network in Windows environment.

## **General Instruction**

Students will examine a couple of useful network related utilities that are run using the windows command prompt environment. Students are required to print screen all related output and include it in the lab report. Students need to answer Lab 1 exercise (Google form quiz) to complete the lab task.

### List of Commands:

ipconfig, ping, netstat and tracert

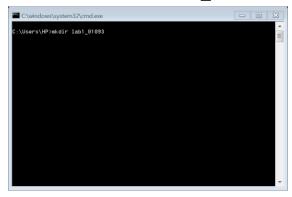
## Lab instructions:

- ✓ Please ensure that your laptop/computer has a good and stable internet access
- 1. In windows OS, run the **cmd** command.

\*refer: <a href="https://www.ionos.com/digitalguide/server/know-how/windows-cmd-commands/">https://www.ionos.com/digitalguide/server/know-how/windows-cmd-commands/</a>

2.In the command prompt environment, create new directory
 name lab1\_<your matric number - last five digits>

Comamnd: mkdir lab1\_01093 and press <enter>

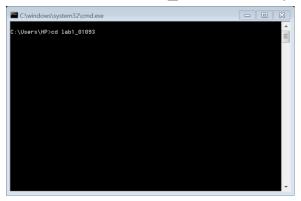


#### Answer:



3. Go to the created directory.

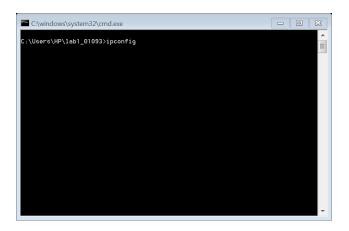
Command: cd Lab1\_01093 and press <enter>



#### Answer:

C:\Users\izzul>cd lab1\_05609

- 4. In the directory prompt execute the following steps:
  - i. Type ipconfig /all and press <enter> key
  - ii. screen shot the output and save
  - iii. Type *cls* and press <enter> key



#### Answer:

```
C:\Users\izzul\lab1_05609>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet 2:

Media State . . . . : Media disconnected
Connection-specific DNS Suffix . :

Unknown adapter Local Area Connection:

Media State . . . . : Media disconnected
Connection-specific DNS Suffix . :

Wireless LAN adapter Local Area Connection* 1:

Media State . . . : Media disconnected
Connection-specific DNS Suffix . :

Wireless LAN adapter Local Area Connection* 2:

Media State . . . : Media disconnected
Connection-specific DNS Suffix . :

Wireless LAN adapter Local Area Connection* 2:

Media State . . . : Media disconnected
Connection-specific DNS Suffix . :

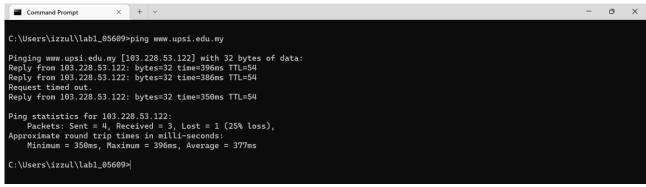
Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix . : upsi.local
Link-local IPv6 Address . : fe80:9d42:5c98:bec3:aece%5
IPv4 Address . : 10.48.49.245
Subnet Mask . . : 255.255.248.0
Default Gateway . : 10.48.48.254

C:\Users\izzul\lab1_05609>
```

- 5. In the directory prompt execute the following steps:
  - i. Type ping www.upsi.edu.my and press <enter> key
  - ii. screen shot the output and save
  - iii. Type *cls* and press <enter> key

#### Answer:



- 6. In the directory prompt execute the following steps:
  - i. Type tracert www.upsi.edu.my and press <enter> key
  - ii. screen shot the output and save
  - iii. Type cls and press <enter> key

#### Answer:

```
Command Prompt
C:\Users\izzul\lab1_05609>tracert www.upsi.edu.my
Tracing route to www.upsi.edu.my [103.228.53.122]
over a maximum of 30 hops:
                                   2 ms 10.48.48.254

3 ms 10.250.3.237

6 ms 10.250.3.213

7 ms 10.250.3.5

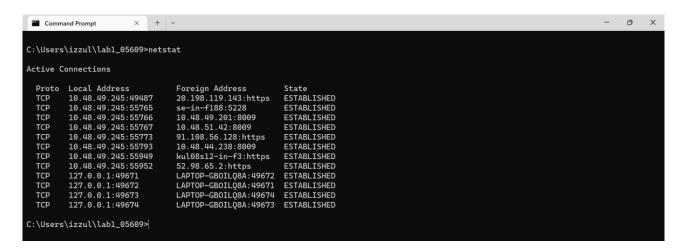
3 ms 10.250.1.10

4 ms ghost5.upsi.edu.my [10.99.2.1]

2 ms fc-rtr.upsi.edu.my [202.45.133.1]
           7 ms
                        4 ms
                       3 ms
2 ms
          4 ms
  4
5
6
7
8
9
                      23 ms
3 ms
2 ms
          2 ms
3 ms
           4 ms
                      14 ms
                                   15 ms 203.201.184.89
                                  34 ms the-gigabit.myix.my [218.100.44.193]
136 ms 103.228.52.170
         24 ms
36 ms
                      41 ms
 10
11
                      81 ms
                                  392 ms muar.alirandigital.com [103.228.53.122]
Trace complete.
C:\Users\izzul\lab1_05609>
```

- 7. In the directory prompt execute the following steps:
  - iv. Type netstat and press <enter> key
  - v. screen shot the output and save
  - vi. Type *cls* and press <enter> key

#### Answer:



- 8. Answer lab 1 exercise:
  - (https://forms.gle/yQZ3JVKrF4aHfaDt5)
- 9. Submit Lab Report via MyGuru.

## End of Lab 1