**CS 436 In Class Practice 29.02.2024**

Group #: 2

Member: Yağız Gürdamar

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| **Group Member (Name, Surname)** | | IP address of Host and Guest |
| Kerim | Deniz | Host: 10.51.26.204 Guest:192.168.210.131 |
| Steven | El Khaldi | Host: 159.20.69.7 Guest: 172.16.5.128 |
| Syed Shahmyr | Shah | Host: 159.20.68.17 Guest: 10.0.2.15 |
| Yağız | Gürdamar | Host: 159.20.69.6 Guest: 172.15.37.128 |
|  |  | Host: Guest: |
|  |  | Host: Guest: |

1. Use the command ***ip address show*** to find out the ip address of your VM (Guest).

Also find out the IP address of your physical machine (Host) Write them in the table above.

1. Make sure your VM has internet access. You can check this out by ping’ing well-known servers. Write down your ping statistics here (each member writes her/his own statistics)

Write the exact command that you used.

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| Command:  Packets transmitted: 4 packets transmitted  Packets Received: 4 packets received  rtt min/avg/ max/mdev: 17.273/40.164/98.493/33.759 |

1. Make sure you have apache2 installed on your system. To do this, you can write

*>which apache2*

You can install apache2 by

> sudo apt-get install apache2

1. Apache http Server Benchmarking tool

Check out the man page of the ab command.

Put synthetic load on the apache server by typing in the command

>ab -c 10 -n 100 <http://127.0.0.1/>

Use & to put ab on the background and check with top command the workload. Play with c and n and see how they affect the CPU utilizations. Write your comments below as a group.

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| As we play with the c value, we see that as c increase the CPU consumption of both ab and apache2 processes increase. But we cannot clearly identify the consumption of the CPU because of the ab processes CPU usage. Therefore, to clearly see the CPU usage under many http requests, it would be better to send http requests from another machine to the test machine. |