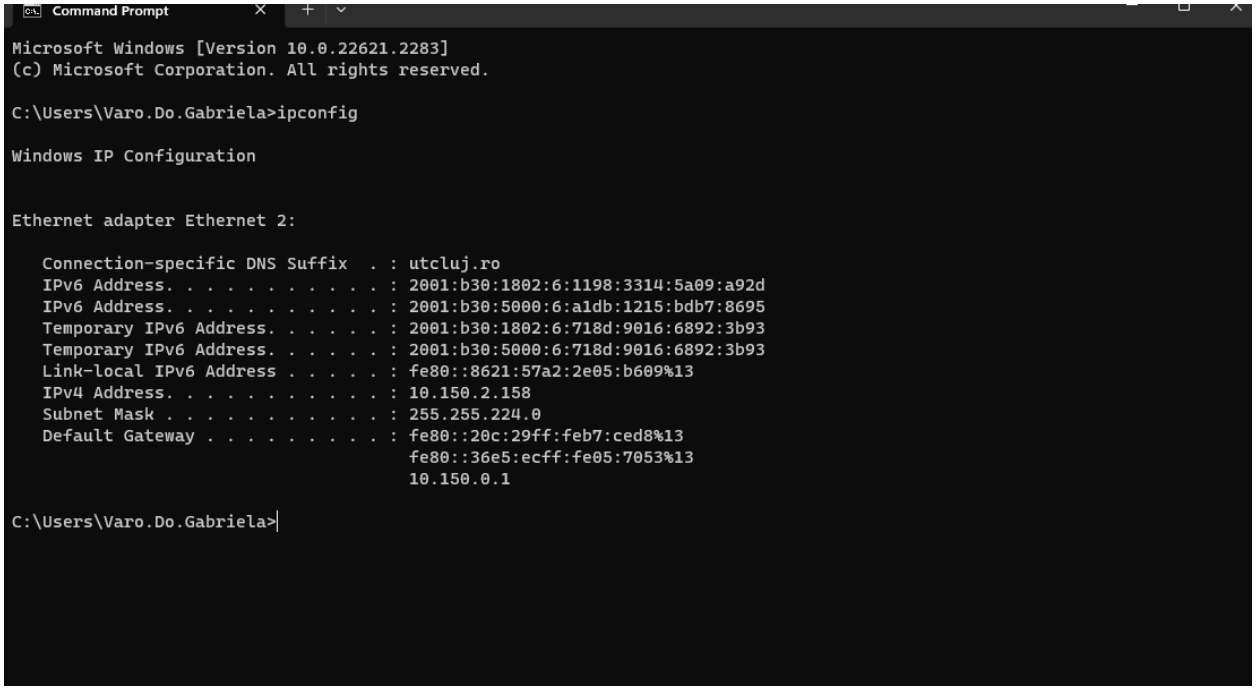
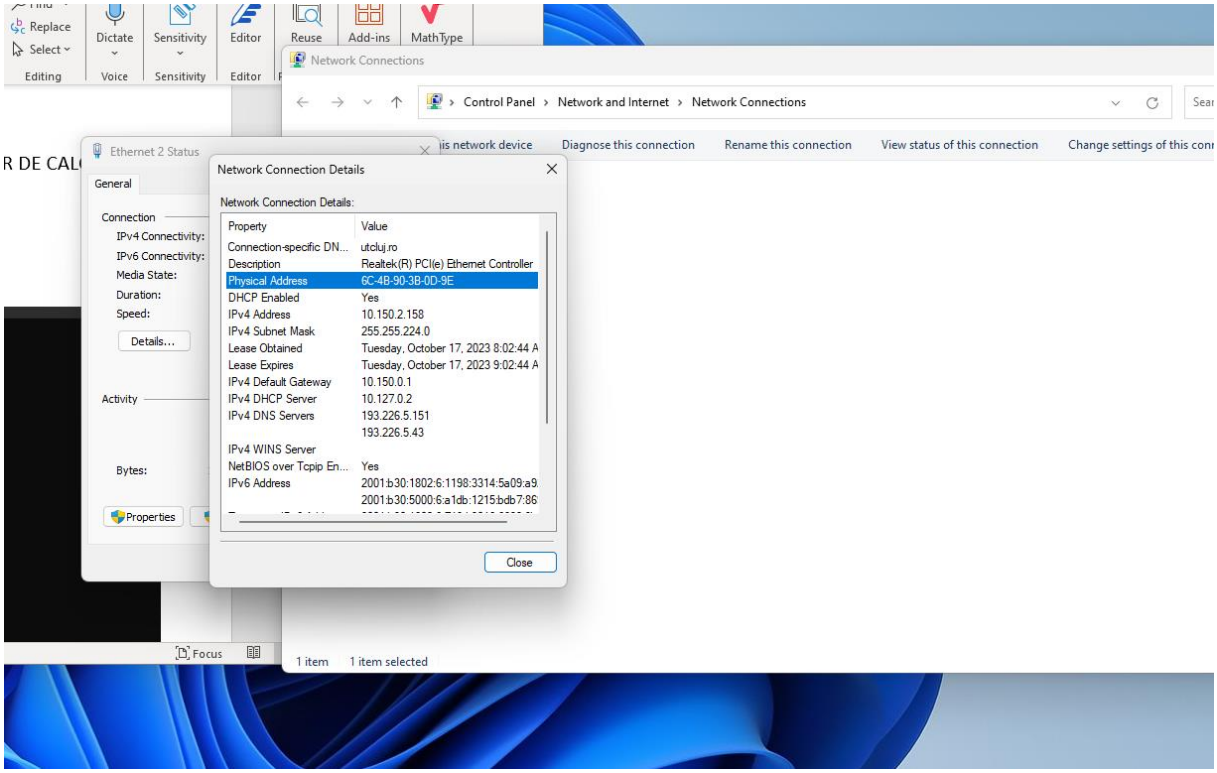
SISTEME DE OPERARE. INTERCONECTAREA SISTEMELOR DE CALCUL. INSTALARE SI CONFIGURARE

1. A. Adresa Ip v6: 2001:b30:1802:6:1198:3314:5a09:a92d
   Adresa Ip v6: 2001:b30:5000:6:a1db:1215:bdb7:8695



b. Adresa MAC: 6C-4B-90-3B-0D-9E



C. Tipuri de interfete de retea:

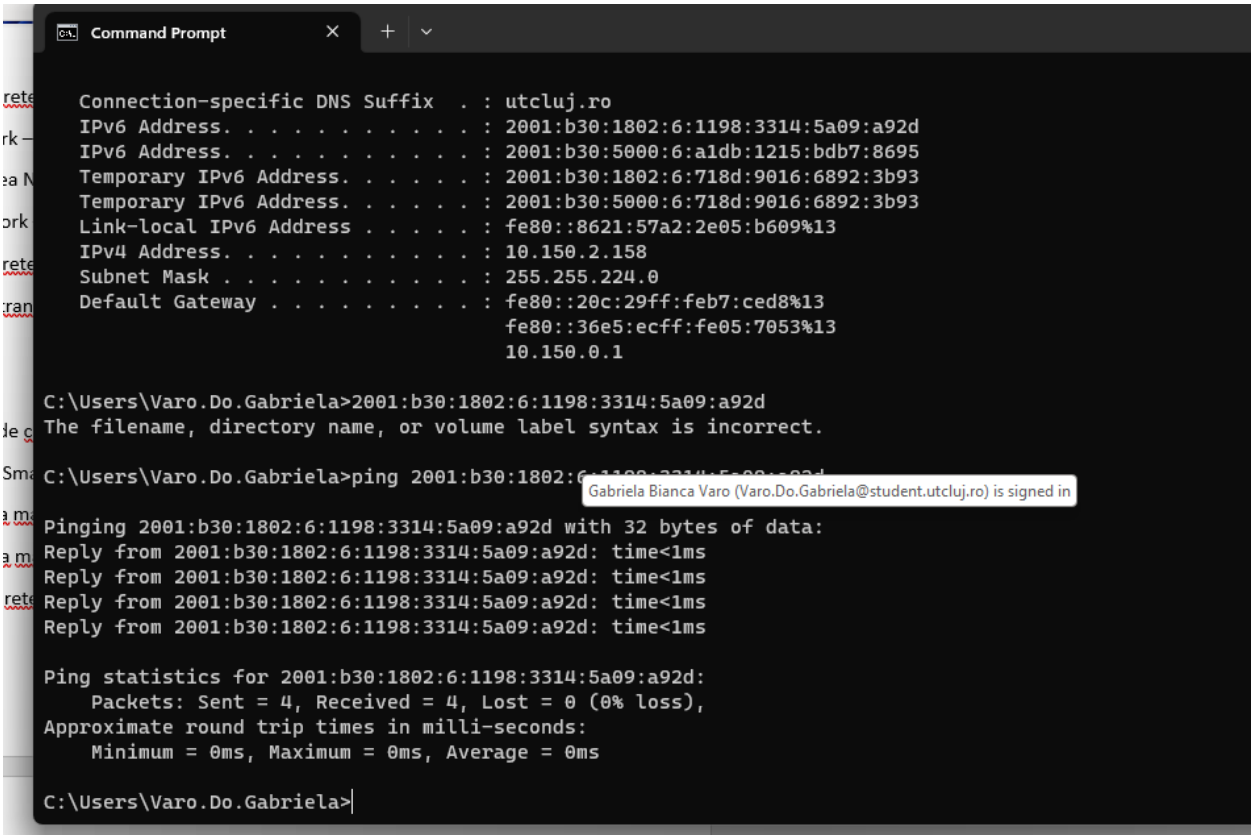
LAN – Local Area Network – ex: reteaua ta (prin cablu) de acasa

MAN – Metropolitan Area Network – ex: reteaua extinsa, pe suprafata unui oras

WAN – Wide Area Network – ex: Internetul

WLAN – Wireless LAN – reteaua ta, wireless, de acasa

D. Numarul de pachete transmise: 4



E. Exemplificari de rute de conectivitate:

End-device (PC, Laptop, Smartphone, Servere etc.)

Switch – interconecteaza mai multe end-device-uri intr-o retea

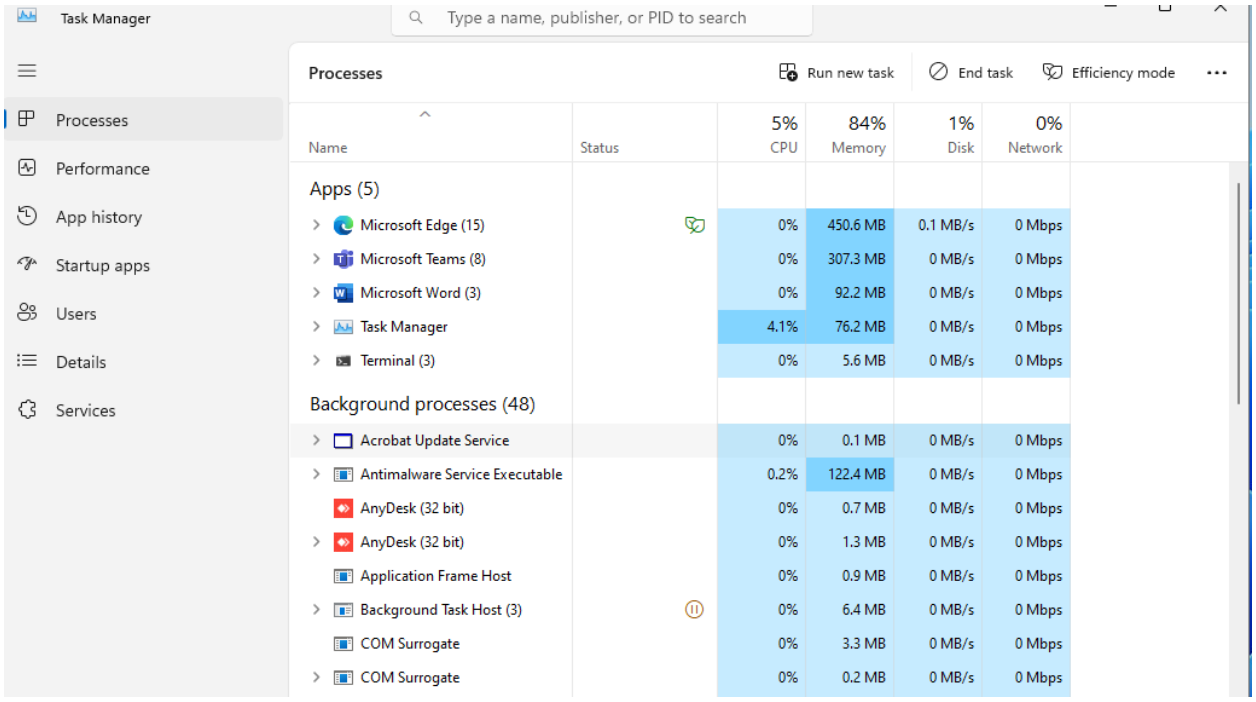
Router – interconecteaza mai multe retele

Firewall – ne protejeaza reteaua de posbile atacuri din Internet

Mediu de transmisie – cablu (cupru), lumina (fibra optica), wireless (aer)

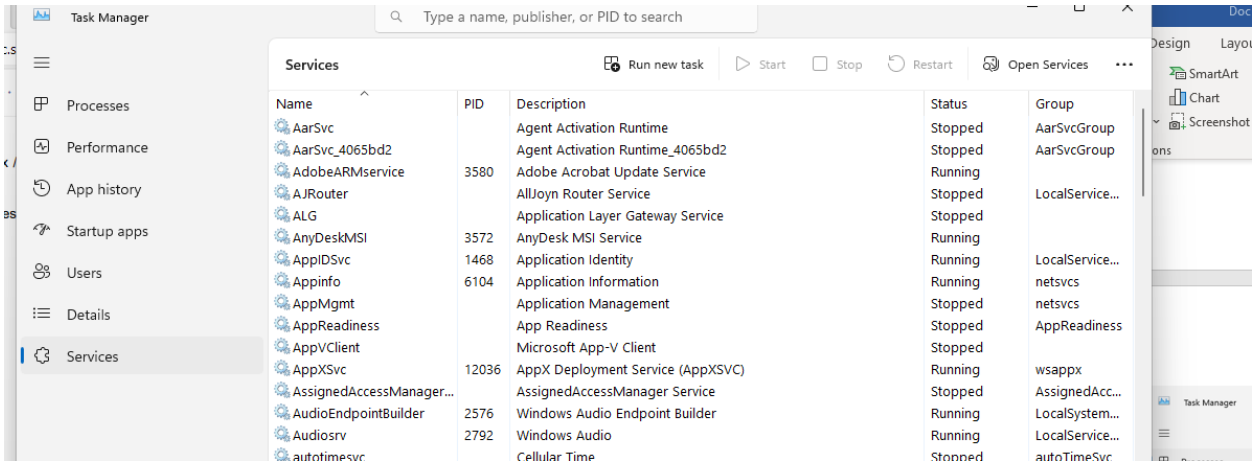
2. A. 3 procese in ordinea consumului de resurse:

NAME	5%CPU	84% MEMORY	1% DISK	0% NETWORK
Acrobat Update Service	0%	0.1 MB	0 MB/s	0 Mbps
Antimalware Service Executable	0.2%	122.4 MB	0 MB/s	0 MBps
AnyDesk(32 bit)	0%	122.4 MB	0 MS/s	0 MBps



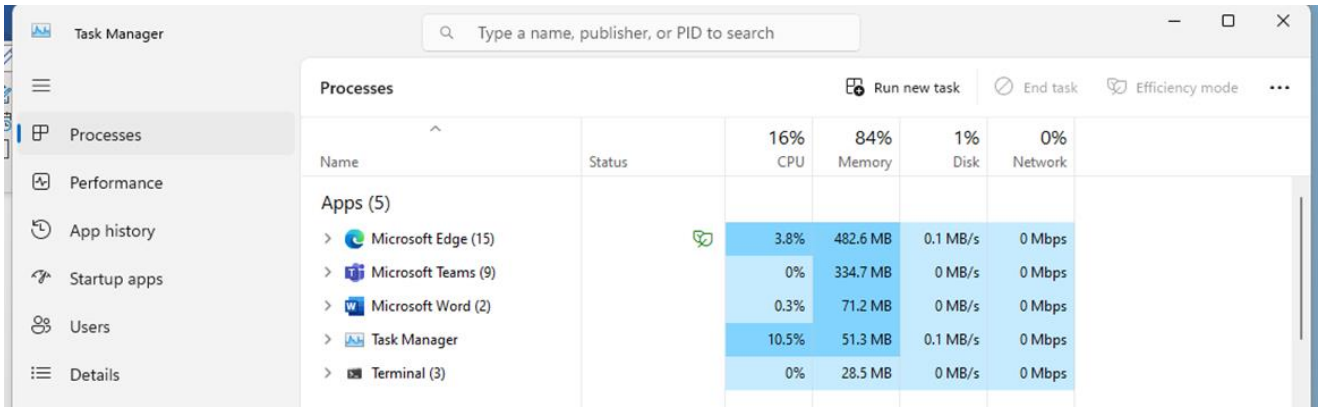
b. 3 servicii in ordinea cosmului de resurse:

NAME	PID	DESCRIPTION	STATUS	GROUP
AarSvc		Agent Activation Runtime	Stopped	AarSvcGroup
AarSvc_4065bd2		Agent Activation Runtime_4065bd2	Stopped	AarSvcGroup
AdobeARMservice	3580	Adobe Acrobat Update Service	Running	

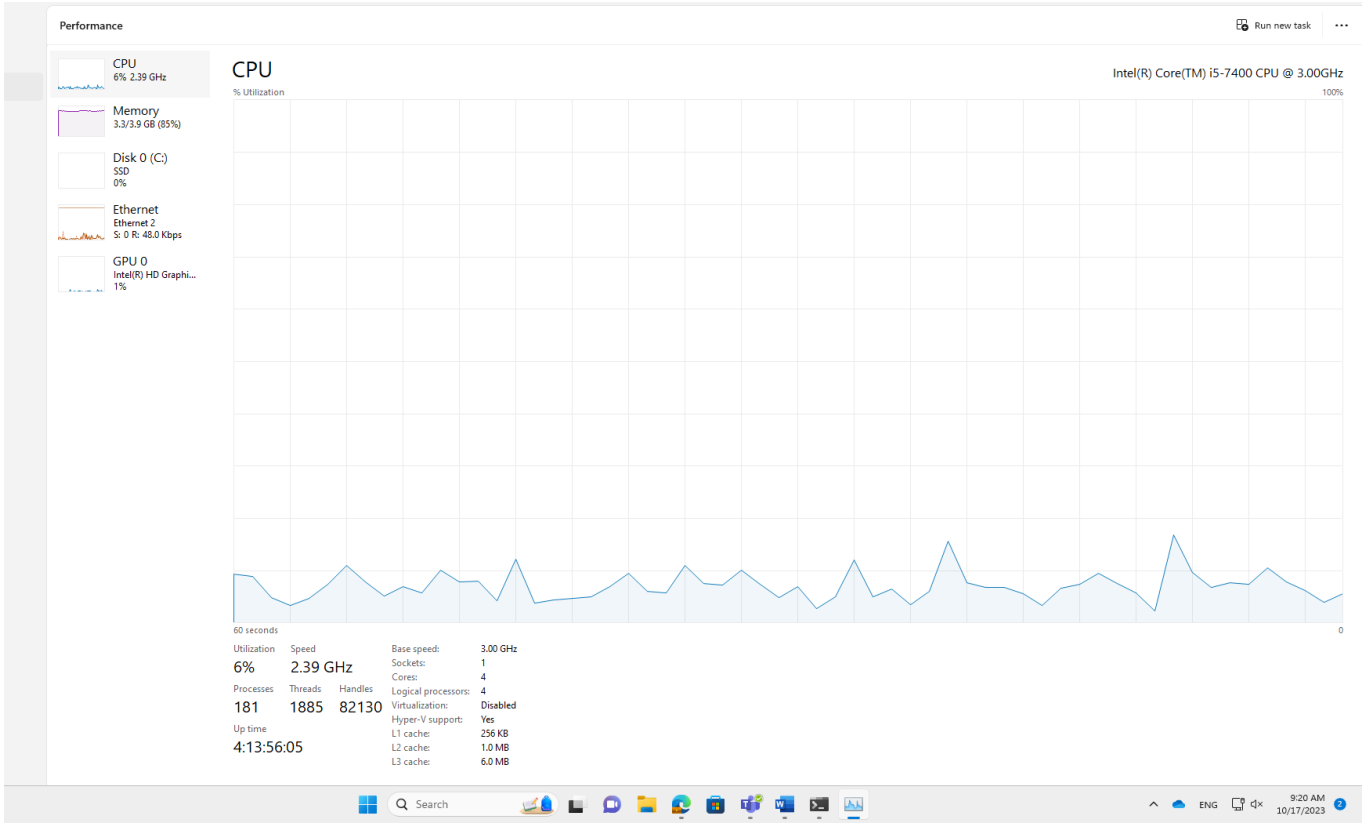


c. 3 aplicatii in ordinea consumului de resurse

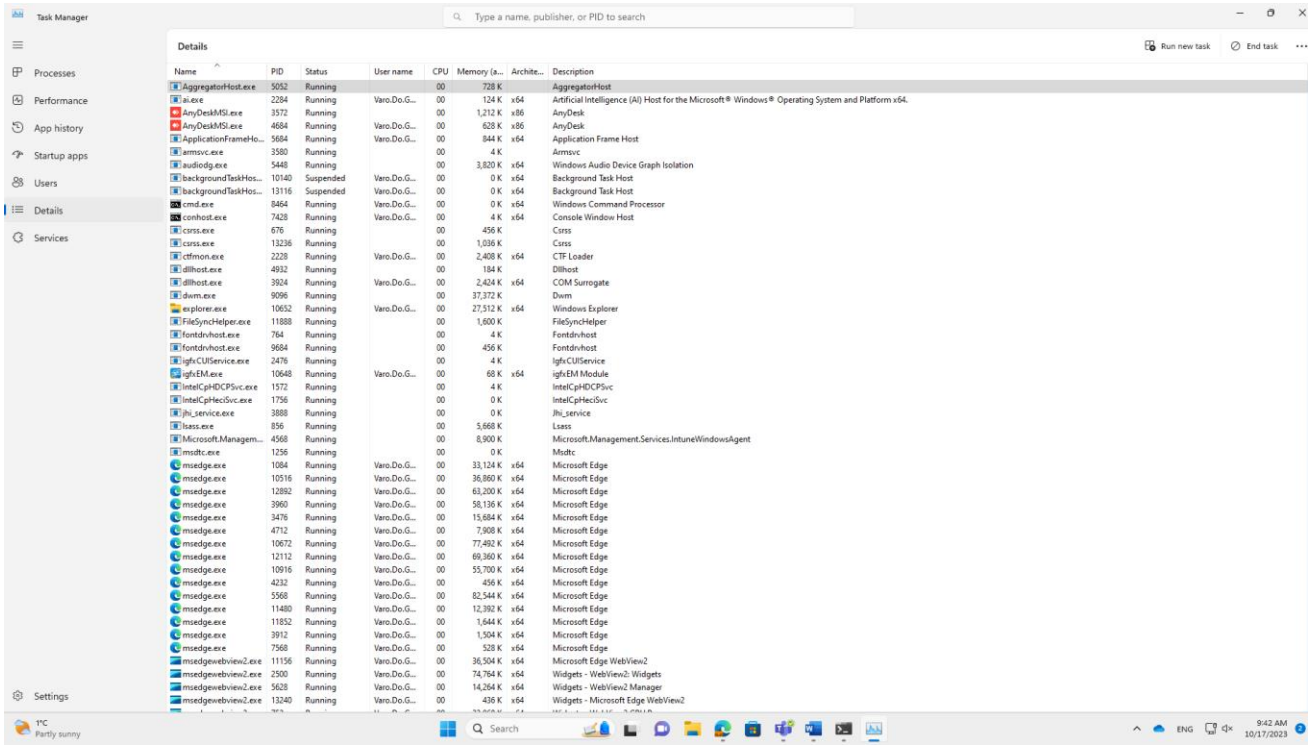
NAME	CPU 16%	MEMORY 84%	DISK 1%	NETWORK 0%
Microsoft Edge	3.8%	482.6MB	0.1 MB/S	0 Mbps
Microsoft Teams	0%	334.7 MB	0 MB/s	0 MBps
Microsoft Word	0.3%	71.2 MB	0 MB/s	0 MBps



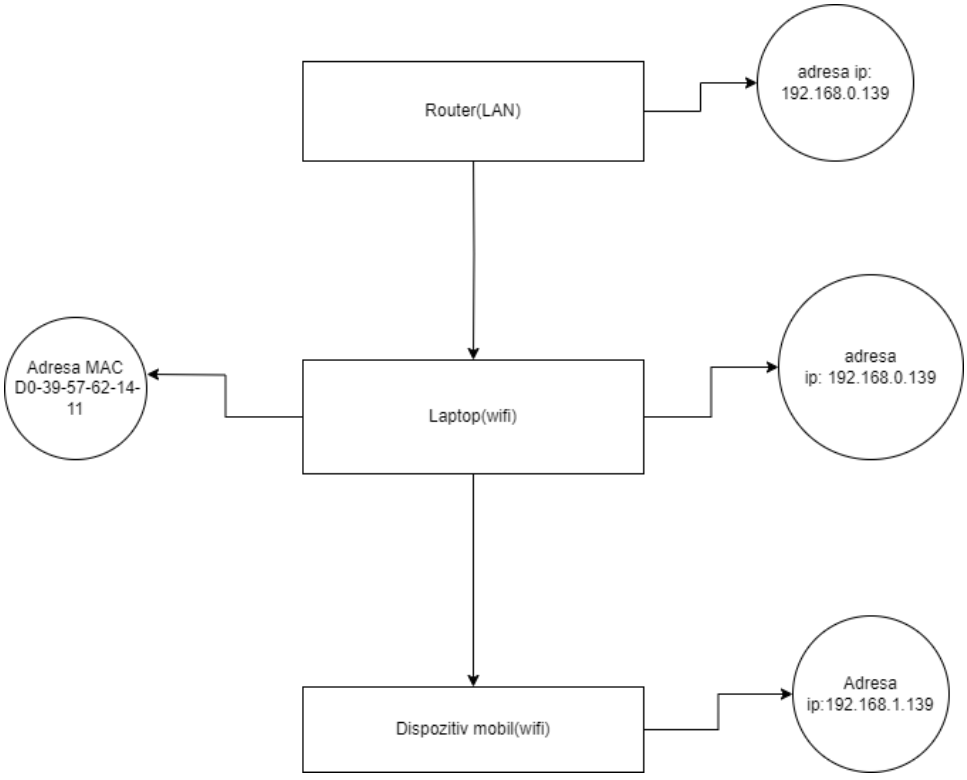
d. Performanta CPU:



e. Conexiuni in retea si specificatii



3.



4.1.

dimensiunea imaginii= 1600 x 1200 x 8= 15.360.000 biti

a. 56 kbps(modem):

T= 15.360.000 biti/ 56.000 biti/sec=274,28 sec

b.1mbps(modem)

T=15.360.000 biti / 1.000.000 biti/sec =15,36 sec

c.10mbps(ethernet)

T=15.360.000 biti/ 10.000.000biti/sec=1,536 sec

d.100mbps(ethernet)

T=15.360.000 biti/ 100.000.000 biti/sec=0,1536 sec

e.1 gigabit(ethernet)

T=15.360.000 biti/1.000.000.000 biti/sec=0.01536 sec

4.2. Există 4 tipuri de linii de transmisie între fiecare dintre cele 5 echipamente de tip router: viteză ridicată, viteză medie, viteză redusă și fără transmisie. Prin urmare, există 4^5 = 1024 de topologii posibile.

Timp total = 1024 topologii x 100 ms/topologie = 102400 ms=102,4 secunde