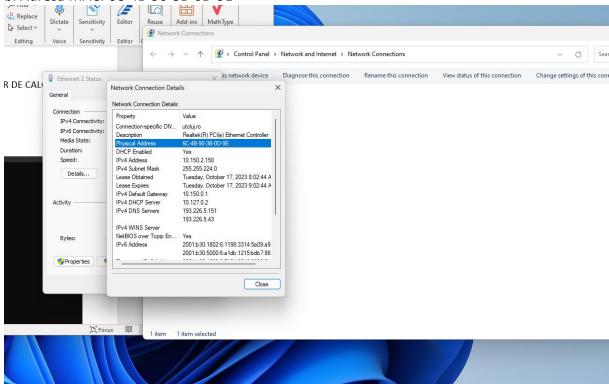
SISTEME DE OPERARE. INTERCONECTAREA SISTEMELOR DE CALCUL. INSTALARE SI CONFIGURARE

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

```
Command Prompt
rete
      Connection-specific DNS Suffix . : utcluj.ro
      IPv6 Address. . . . . . . . . . . . . . . 2001:b30:1802:6:1198:3314:5a09:a92d
rk –
      IPv6 Address. . . . . . . . . . . . . . . . 2001:b30:5000:6:a1db:1215:bdb7:8695
      Temporary IPv6 Address. . . . . . : 2001:b30:1802:6:718d:9016:6892:3b93
a N
      Temporary IPv6 Address. . . . . . . 2001:b30:5000:6:718d:9016:6892:3b93
ork
      Link-local IPv6 Address . . . . . : fe80::8621:57a2:2e05:b609%13
      IPv4 Address. . . . . . . . . . : 10.150.2.158
rete
      Default Gateway . . . . . . . . : fe80::20c:29ff:feb7:ced8%13
ran
                                           fe80::36e5:ecff:fe05:7053%13
                                           10.150.0.1
   C:\Users\Varo.Do.Gabriela>2001:b30:1802:6:1198:3314:5a09:a92d
deg The filename, directory name, or volume label syntax is incorrect.
Sma C:\Users\Varo.Do.Gabriela>ping 2001:b30:1802:6-3100-3334-5-00--03-d
Gabriela Bianca Varo (Varo.Do.Gabriela@student.utcluj.ro) is signed in
Pinging 2001:b30:1802:6:1198:3314:5a09:a92d with 32 bytes of data:
Reply from 2001:b30:1802:6:1198:3314:5a09:a92d: time<1ms
   Reply from 2001:b30:1802:6:1198:3314:5a09:a92d: time<1ms
rets Reply from 2001:b30:1802:6:1198:3314:5a09:a92d: time<1ms
   Reply from 2001:b30:1802:6:1198:3314:5a09:a92d: time<1ms
   Ping statistics for 2001:b30:1802:6:1198:3314:5a09:a92d:
       Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
   Approximate round trip times in milli-seconds:
       Minimum = 0ms, Maximum = 0ms, Average = 0ms
   C:\Users\Varo.Do.Gabriela>
```

E. Exemplificari de rute de conectivitate:

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

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

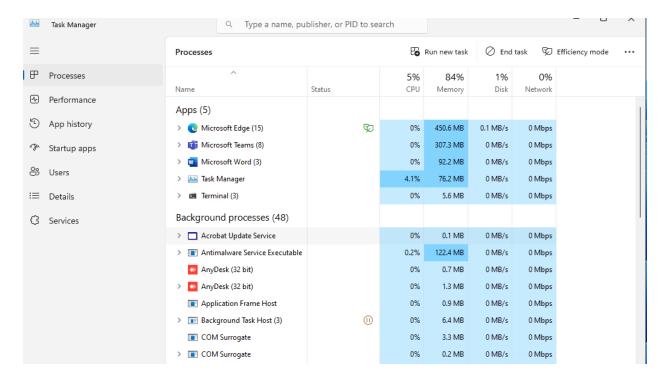
Router – interconecteaza mai multe retele

Firewall – ne protejeaza reteaua de posbile atacuri din Internet

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

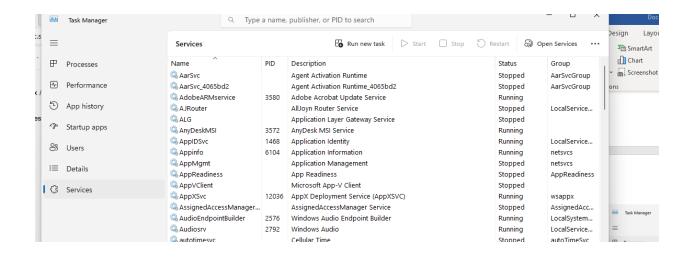
2. A. 3 procese in ordinea consumului de resurse:

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



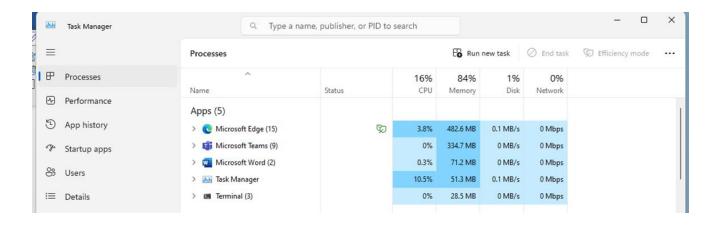
b. 3 servicii in ordinea cosmului de resurse:

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

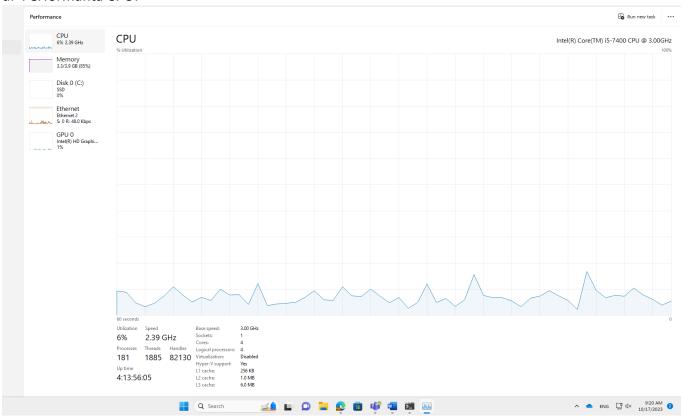


c. 3 aplicatii in ordinea consumului de resurse

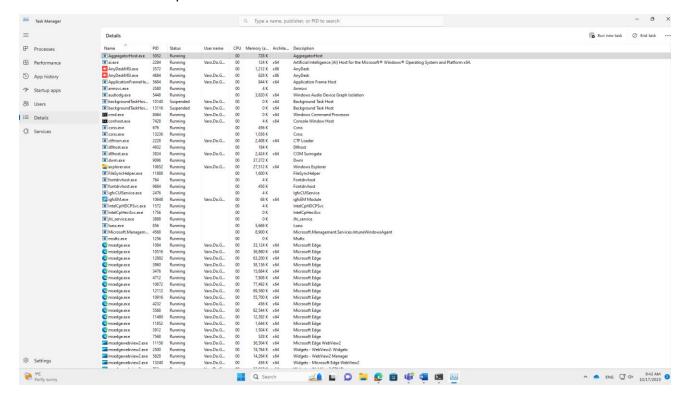
NAME	CPU 16%	MEMORY 84%	DISK 1%	NETWORK 0%
Microsoft Edge	3.8%	482.6MB	0.1 MB/S	0 Mbps
Microsoft	0%	334.7 MB	0 MB/s	0 MBps
Teams				
Microsoft	0.3%	71.2 MB	0 MB/s	0 MBps
Word				



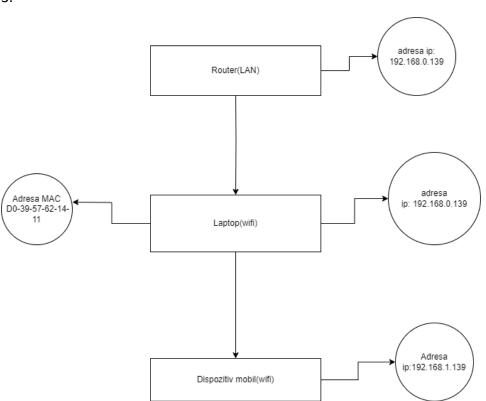
d. Performanta CPU:



e. Conexiuni in retea si specificatii



3.



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