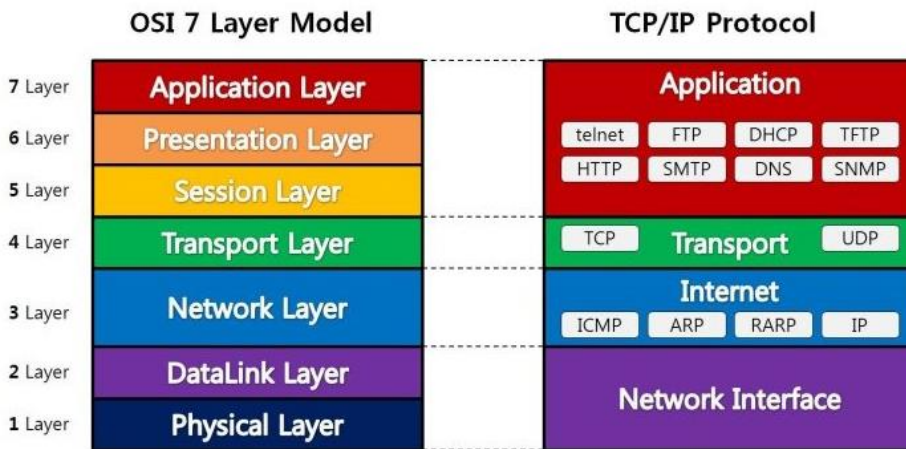


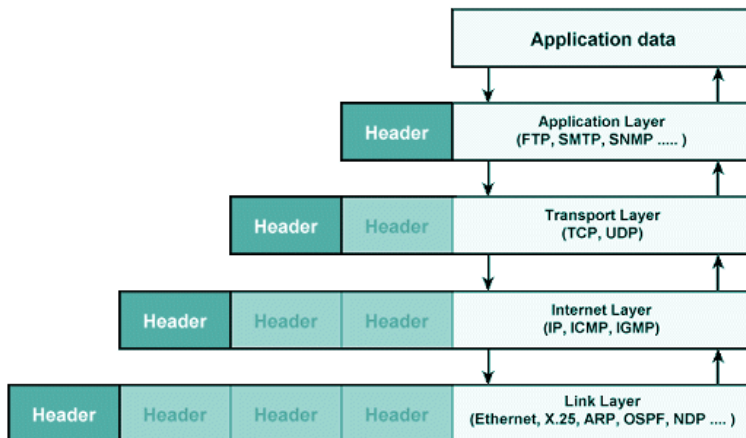
## SEMINAR NR 1- RC- Timofte Carmen

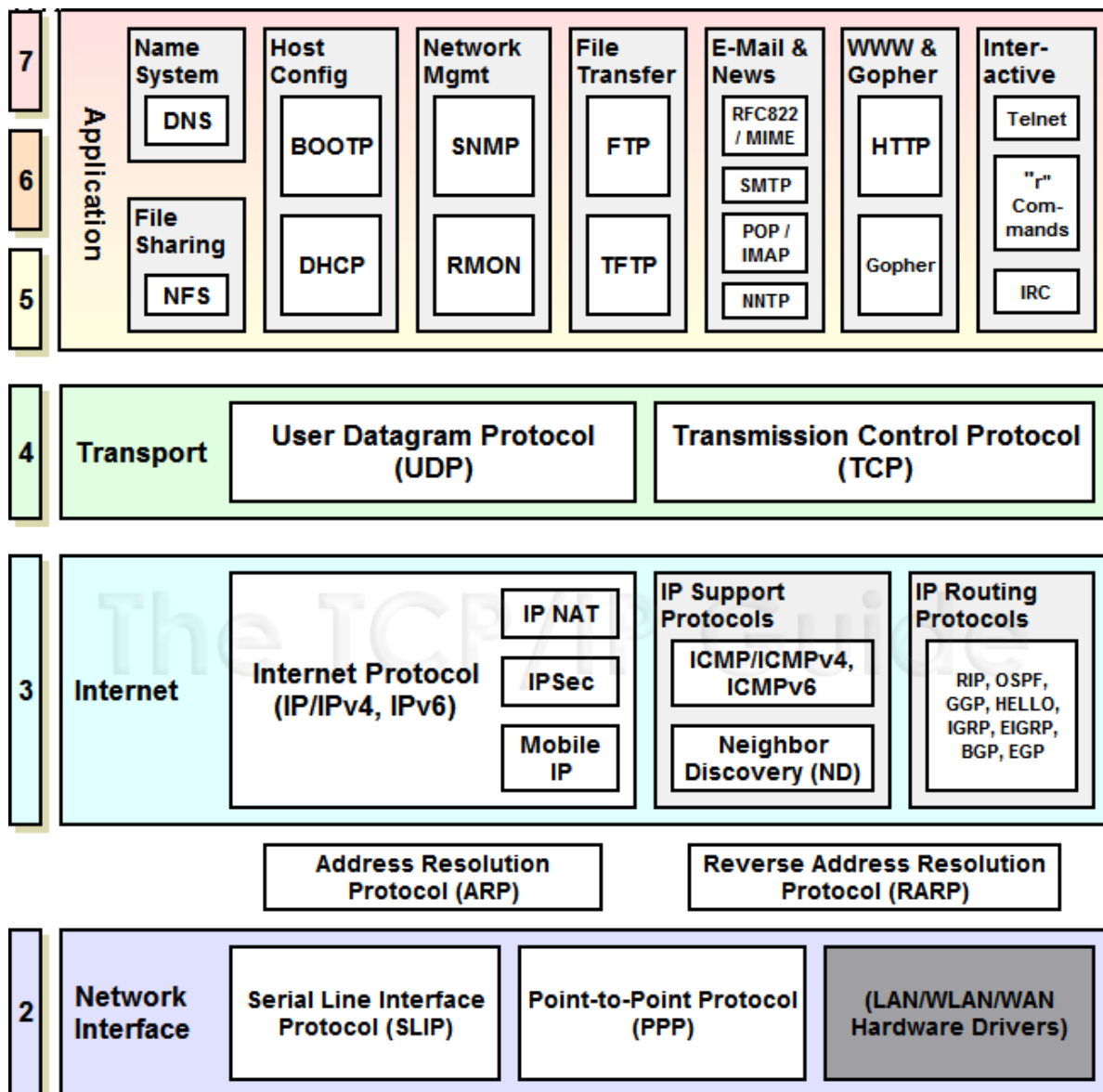
### 1. SERVICII INTERNET

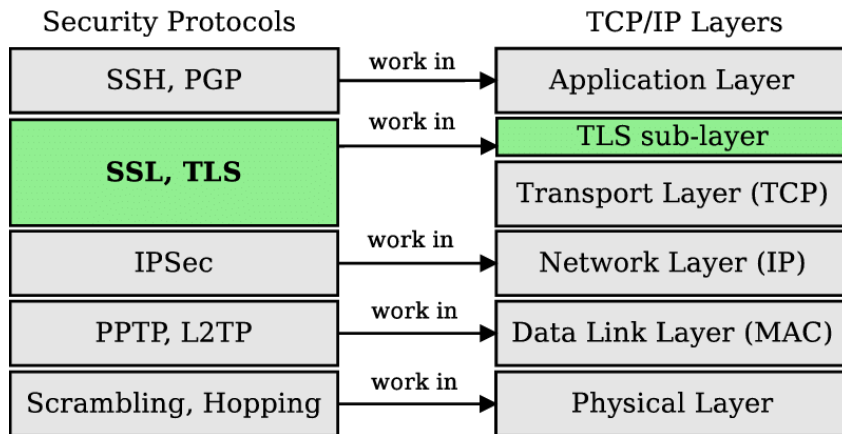
Model ISO/OSI	Model TCP/IP
7. Nivel aplicație	4. Aplicație: HTTP, TELNET, FTP, SMTP, TFTP, FINGER, LOGIN SHELL etc.
6. Nivel prezentare	
5. Nivel sesiune	
4. Nivel transport	3. Transport: TCP, UDP
3. Nivel rețea	2. Rețea: IP, ARP, RARP, ICMP
2. Nivel legatura de date	1. Subrețea
1. Nivel fizic	



*All People Seem To Need Data Processing*







## 2. Conectare la retea:

- *hardware:*
  - pl de retea
  - echipam de interconectare: hub, switch, router
    - conectare router, setari wifi
  - mediu de transmisie: unde, fibra optica (lumina), coaxial, UTP
- *software:*
  - driver -> configurat
  - protocol de comunicatie -> TCP/IP (soft pt TCP/IP în-  
"C:\Windows\System32\drivers\tcpip.sys" instalat automat)-> alegere IPv4 și/sau IPv6 -> configurat
    - ipconfig
    - ipconfig /all
    - tracert
    - ripe.net
  - client de conectare la retea
  - servicii

## SEM 2- RC

### 3. Client/Server

Program server	SO Server	Calc Server
Program client	SO WS	Calc WS

Serviciu Internet	Client	Protocol	Port	Server
Web	Browser	HTTP HTTPS	80 443	IIS, httpd, apache etc
Conectare la distanța	Com. telnet ssh/putty browser	TELNET SSH	23 22	telnetd sshd
Transfer de fișere	Com. ftp Programe spec. browser	FTP	21	IIS, ftpd
Poșta electronică	Com. mail Programe spec. browser	SMTP POP3	25 110	IIS, sendmaild pop3d

- Apel comun: URL -> vezi scheme URL seminar online (<https://carment.ase.ro/rc/sem/iis.html>)

### 4.

#### a. Serviciul de Web

##### 1.1.1 Server-ul Web IIS – sub Win

- 0- Instalare : Apps and Features ----Win Features on, alegeți IIS, (Adugați **Basic Authentication** și **Centralized SSL Certificate Support....**) sau Microsoft Web Platform Installer
- 1- Identificare server Web: <http://localhost>
- 2- Serviciul: IIS – started: Services -> **WWW Publishing Service** – status *running*
- 3- Procesul: **w3wp.exe**
- 4- Directorul: **C:\inetpub\wwwroot\** -pag pornire **iistart.htm**
- 5- Portul: 80 => comanda:  
*netstat -a -n |more;*  
*netstat -a -n -o|more (pt PID);*  
*netstat -a -n -o| findstr "80" (pt PID și afisare doar a conexiunilor portului 80);*  
*netstat -a -n -o -b|more (cu drept de power shell admin-pt numele aplic care ruleaza)*

- 6- Configurare server – Computer Management\Services and Apps\IIS Manager
- 7- Creare **site-uri virtuale**: cu porturi diferite, IP, header- *cu pagina de pornire* (dir\_site\_gr10xx)– apel <http://localhost:port>
- 8- Creare **directoare virtuale**: din consola administrare, din sharing – *cu browsing* (dir\_virt\_gr10xx), apel <http://localhost:port/alias>
- 9- Creare **site-uri virtuale cu SSL**- port diferit -443, (dir\_s\_ssl\_10xx, https, 443 => 443xx), SSL Settings –Client certificates –accept; cu browsing/ fisier diferit de pornire, acces: [https://localhost:port\\_ssl/](https://localhost:port_ssl/)
- 10- Acces cu cont si parola la site-ul creat cu SSL:
  - creare user: gr10xx/passw gr10xx; (din Computer Mgmt\ Local Users and Groups\Users\New User...)
  - Edit Permissions/Security/Edit/Add.../ se adauga userul creat pt folderol dir\_s\_ssl\_10xx;
  - Authentication\Anonymous –disable, Basic Auth – enabled; adaugati userul creat;
  - Testare; retestare din New Incognito Windows.

#### **Evaluare 0.5p:**

1. Server IIS implicit (print screen cu browser, dir, port, proces)
2. Server virtual port 80xx, cu fis de pornire index.html
3. Dir virt +drept de browsing
4. Server virt SSL port 443XX
5. ---,---- + acces cu cont si parola (user 1077/pass 1077)→ + incognito tab

### **1.1.2 Server-ul Web Apache – sub Win/ Unix**