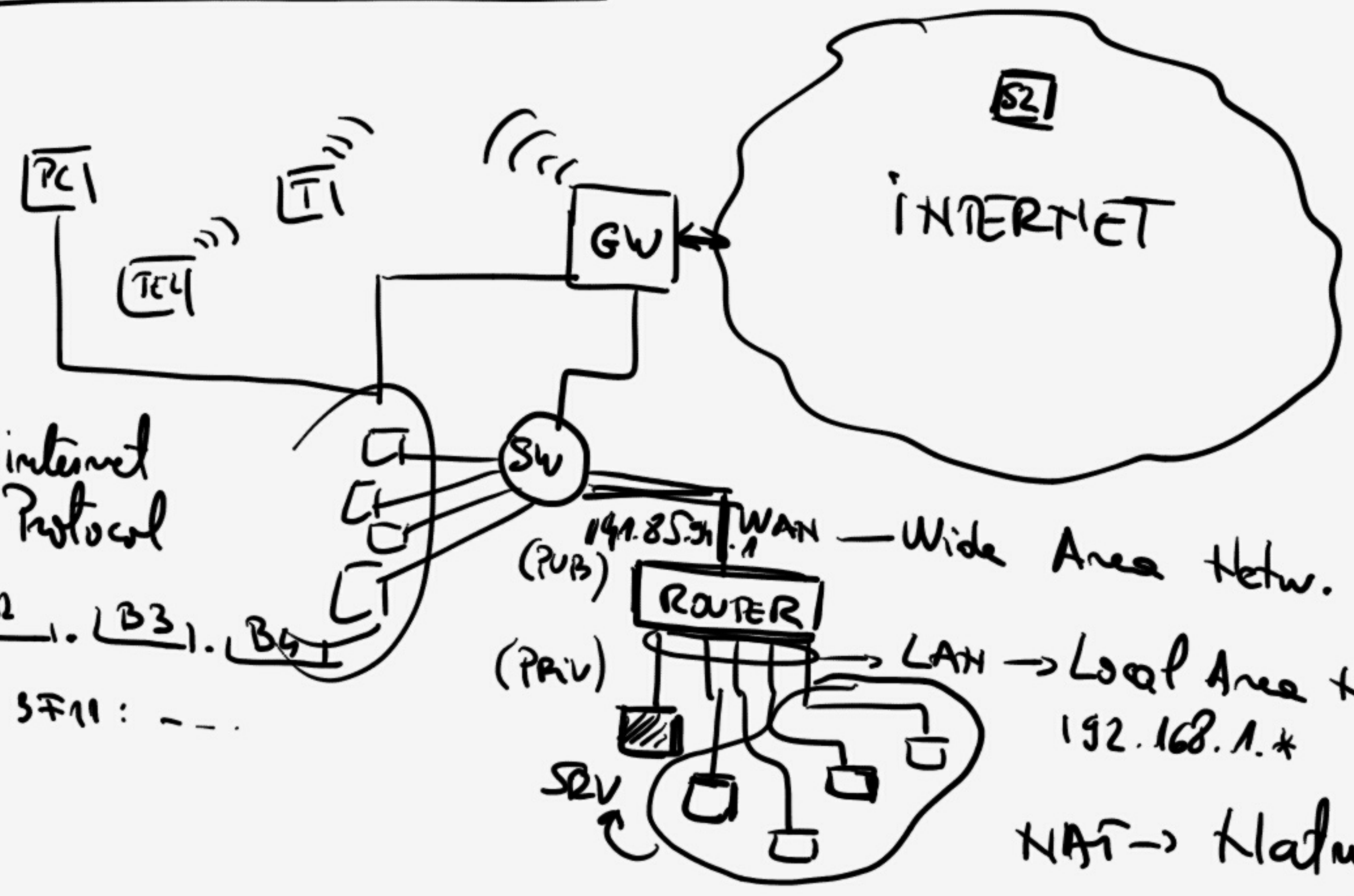


=+

⑥ Ethernet Communication



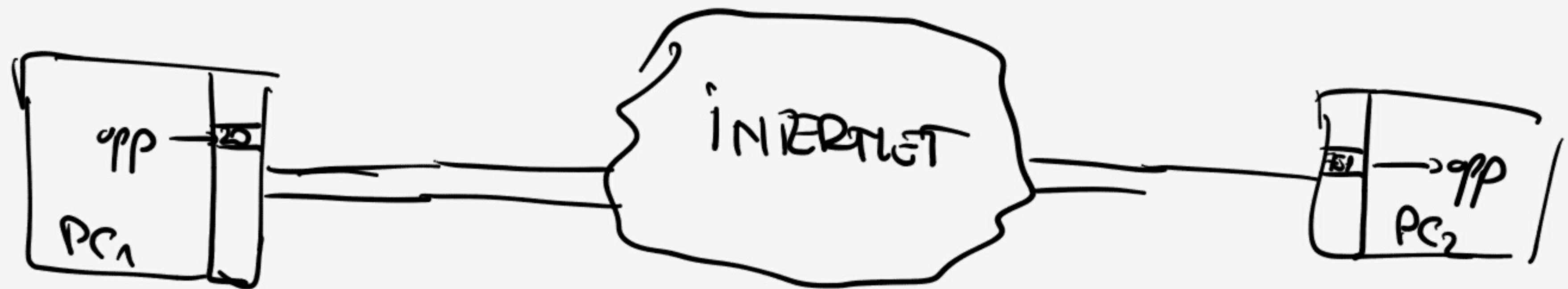
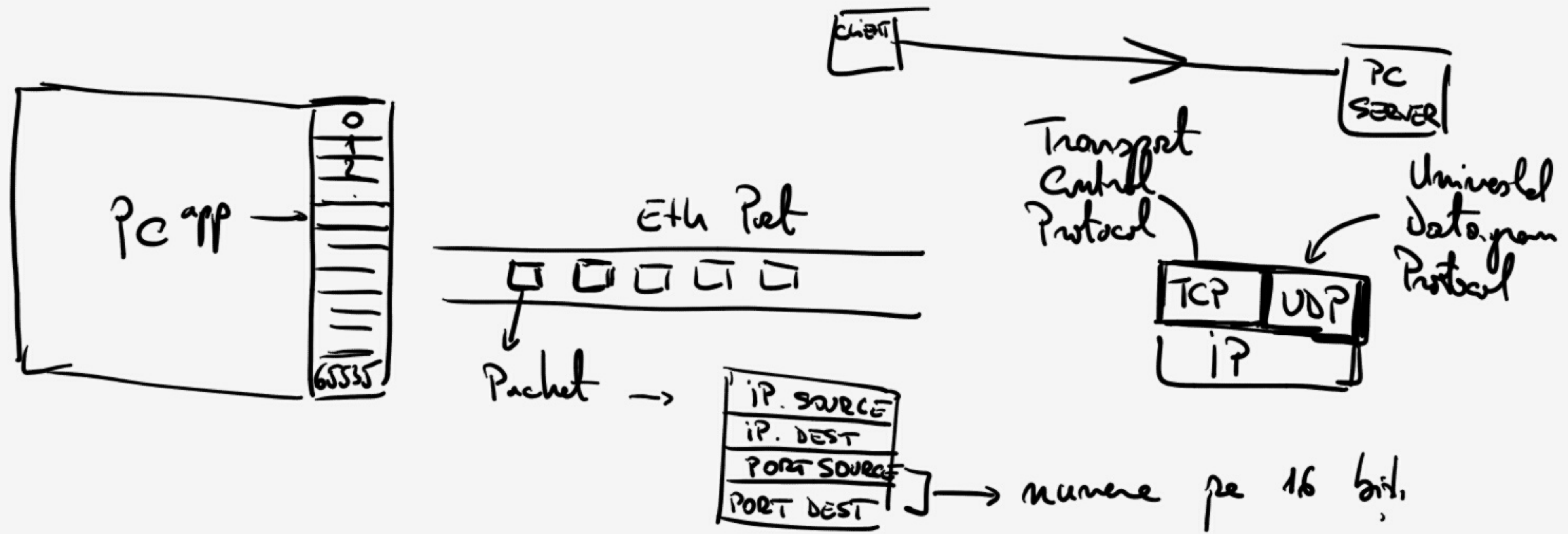
Address IP → internet Protocol

IPv4: B1 . B2 . B3 . B4

IPv6: 4F15:5F11: ...

141.85.31.1 (PUB) WAN — Wide Area Netw.
 (PRIV) LAN → Local Area Netw
 192.168.1.*

NAT → Network Address Translation



127.0.0.1 ↔ localhost → calculatorul pe care sunteți

PORT → HTTP → 80
FTP → 21
SSH → 22
SMTP → 25
- - -

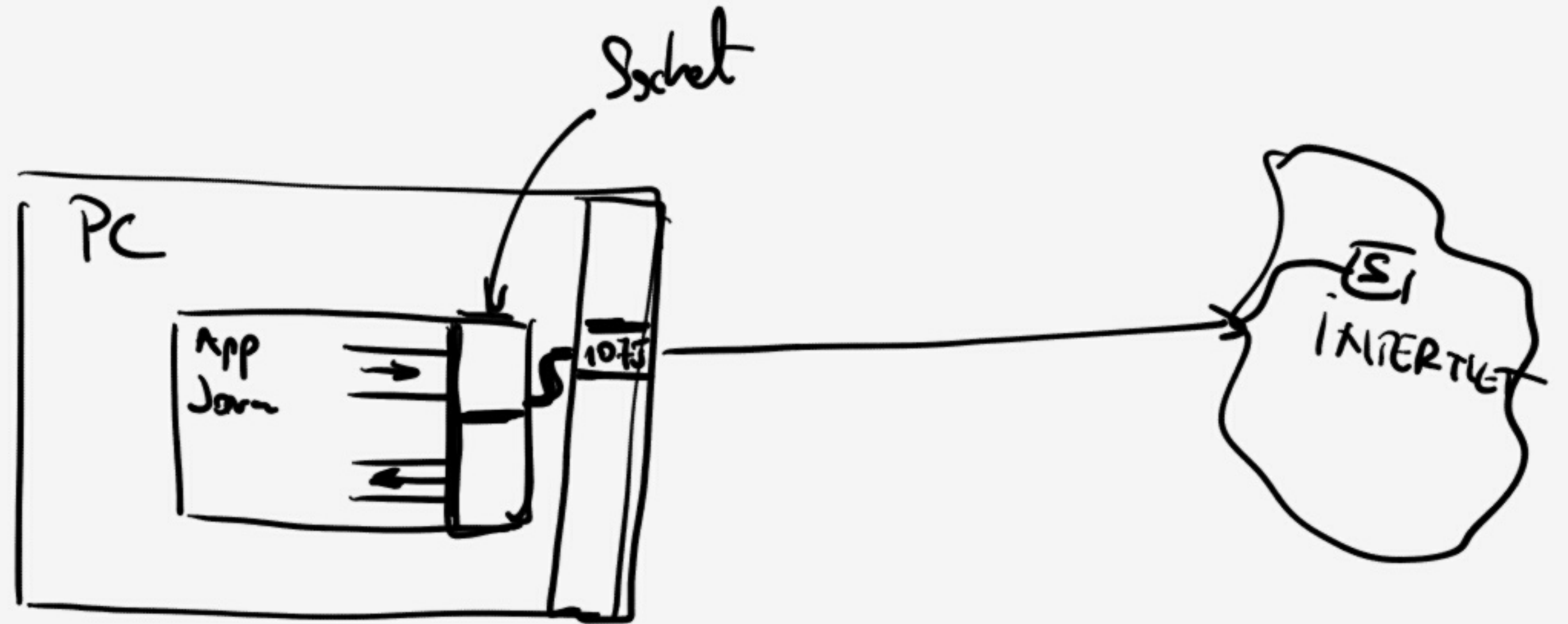
DNS → Domain Name Service ↔ asociază un ip cu un
nume de domeniu

(141.85.94.1) ↔ ark.pub.ro
141.85.94.2 ↔ hermes.ark.pub.ro

http://homework.dcae.pub.ro:8888 — ✓

java.net → pachetul java pt. clasele folosite în comunicați
Socket
ServerSocket

Socket →



Socket s;

s = new Socket("google.com", 80);

hostname/IP port

String int

getInputStream()
getOutputStream()

linux, 1-1023
↳ reserved

```
ServerSocket ss;  
ss = new ServerSocket(9000);
```

```
Socket s;  
s = ss.accept();
```

```
InputStream is = s.getInputStream();  
OutputStream os = s.getOutputStream();
```

```
os.write(10);
```

```
int i = is.read();
```

```
...
```