Act 3.3.- Escaneo de red

Código

```
 7   public class Actividad_3 {
 8
 9       public static void main(String[] args) {
10           try {
11               System.out.println(x: "Scanning...");
12               System.out.println(x: "Checking network 192.168.1.0...");
13               System.out.println(x: "Reachable IPs:");
14               for (int i = 1; i <= 255; i++) {
15                   if (InetAddress.getByName("192.168.1." + i).isReachable(timeout:1000)) {
16                       System.out.printf(format: "--> %s%d\n", args: "192.168.1.", args: i);
17                   }
18               }
19               System.out.println(x: "Scanning finished");
20           } catch (UnknownHostException ex) {
21               System.out.printf(format: "ERROR: %s\n", args: ex.getMessage());
22           } catch (IOException ex) {
23               System.out.printf(format: "ERROR: %s\n", args: ex.getMessage());
24           }
25       }
26
27   }
28
```

Resultado

He puesto hasta que alcance 255 por el motivo de que muchas de mi IP estaban fuera del rango que pedía el ejercicio.

```
Scanning...
Checking network 192.168.1.0...
Reachable IPs:
--> 192.168.1.1
--> 192.168.1.166
--> 192.168.1.183
--> 192.168.1.218
--> 192.168.1.241
--> 192.168.1.247
Scanning finished
BUILD SUCCESSFUL (total time: 4 minutes 9 seconds)
```

Resultado Nmap

```
PS C:\Windows\system32> nmap 192.168.1.0/24
>>
Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-26 17:23 Hora estßndar romance
Nmap scan report for 192.168.1.1
Host is up (0.00086s latency).
Not shown: 991 closed tcp ports (reset)
PORT        STATE     SERVICE
21/tcp      open      ftp
22/tcp      filtered  ssh
23/tcp      filtered  telnet
53/tcp      open      domain
80/tcp      open      http
443/tcp     open      https
2601/tcp    open      zebra
49152/tcp   open      unknown
49153/tcp   open      unknown
MAC Address: FC:22:F4:04:2D:90 (Zyxel Communications)

Nmap scan report for 192.168.1.179
Host is up (0.0058s latency).
Not shown: 998 filtered tcp ports (no-response)
PORT      STATE SERVICE
80/tcp    open  http
5357/tcp  open  wsdapi
MAC Address: 00:D8:61:C8:AC:76 (Micro-Star Intl)

Nmap scan report for 192.168.1.183
Host is up (0.0088s latency).
All 1000 scanned ports on 192.168.1.183 are in ignored states.
Not shown: 1000 closed tcp ports (reset)
MAC Address: F2:70:D9:7C:BD:6B (Unknown)

Nmap scan report for 192.168.1.218
Host is up (0.0041s latency).
All 1000 scanned ports on 192.168.1.218 are in ignored states.
Not shown: 1000 closed tcp ports (reset)
MAC Address: 8A:B6:72:E6:97:66 (Unknown)

Nmap scan report for 192.168.1.241
Host is up (0.0040s latency).
All 1000 scanned ports on 192.168.1.241 are in ignored states.
Not shown: 1000 closed tcp ports (reset)
MAC Address: 9C:5A:81:A1:73:AF (Xiaomi Communications)

Nmap scan report for 192.168.1.247
Host is up (0.0065s latency).
All 1000 scanned ports on 192.168.1.247 are in ignored states.
Not shown: 1000 closed tcp ports (reset)
MAC Address: 5A:5A:3C:0F:76:87 (Unknown)
```