scanme.nmap.org

```
[natzhou@Natalies-MacBook-Air ~ % nmap scanme.nmap.org
Starting Nmap 7.93 ( https://nmap.org ) at 2022-12-05 07:49 CST
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.062s latency).
Not shown: 995 closed tcp ports (conn-refused)
PORT STATE SERVICE
22/tcp open ssh
53/tcp open domain
80/tcp open http
9929/tcp open nping-echo
31337/tcp open Elite

Nmap done: 1 IP address (1 host up) scanned in 13.84 seconds
```

Open ports:

- Port 22/tcp is running ssh service and the OpenSSH software
- Port 53/tcp is running service "domain"
- Port 80/tcp is running HTTP service and the Apache httpd application
- Port 9929/tcp is running the Nping service with echo mode
- Port 331337/tcp is running a service called Elite

Using nmap's OS detection, the OS being used is most likely Linux.

Vulnerability scan:

```
Starting Nmap 7.93 ( https://nmap.org ) at 2022-12-05 09:49 CST
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.060s latency).
 lot shown: 995 closed tcp ports (conn-refused)
 PORT
               STATE SERVICE
                                          VERSION
                                           OpenSSH 6.6.1p1 Ubuntu 2ubuntu2.13 (Ubuntu Linux; protocol 2.0)
               open ssh
      cpe:/a:openbsd:openssh:6.6.1p1:
            CVE-2015-5600 8.5
CVE-2015-6564 6.9
                                                    https://vulners.com/cve/CVE-2015-5600
                                                    https://vulners.com/cve/CVE-2015-6564
             CVE-2018-15919 5.0
                                                    https://vulners.com/cve/CVE-2018-15919
                                                   https://vulners.com/cve/CVE-2021-41617
https://vulners.com/cve/CVE-2020-14145
            CVF-2021-41617
             CVE-2020-14145
            CVE-2015-5352
CVE-2015-6563
                                      4.3
                                                   https://vulners.com/cve/CVE-2015-5352
https://vulners.com/cve/CVE-2015-6563
53/tcp
                                           Apache httpd 2.4.7 ((Ubuntu))
80/tcp
               open http
  vulners:
      https://vulners.com/cve/CVE-2022-31813
https://vulners.com/cve/CVE-2022-23943
https://vulners.com/cve/CVE-2022-22720
https://vulners.com/cve/CVE-2021-44790
            CVE-2022-22720
             CVE-2021-44790
                                                   https://vulners.com/cve/CVE-2021-39275
https://vulners.com/cve/CVE-2021-26691
             CVE-2021-39275
             CVE-2021-26691
            CVE-2017-7679
CVE-2017-3167
                                                   https://vulners.com/cve/CVE-2017-7679
https://vulners.com/cve/CVE-2017-3167
            CVE-2017-3167 7.5
CNVD-2022-73123 7.5
                                                    https://vulners.com/cnvd/CNVD-2022-73123
https://vulners.com/cnvd/CNVD-2022-03225
7.5 https://vulners.com/cnvd/CNVD-2021-102386
             CNVD-2022-03225 7.5
            CNVD-2021-102386
7.5 https://vulners.com/cnvd/CNVD-2021-102386
PACKETSTORM:127546
6.8 https://vulners.com/packetstorm/PACKETSTORM:127546 *EXPLOIT*
FDF3DFA1-ED74-5EE2-BF5C-BA752CA34AE8
6.8 https://vulners.com/cve/CVE-2021-40438
CVE-2021-40438
6.8 https://vulners.com/cve/CVE-2021-40438
CVE-2020-35452
6.8 https://vulners.com/cve/CVE-2020-35452
CVE-2018-1312
CVE-2017-15715
6.8 https://vulners.com/cve/CVE-2017-15715
CVE-2016-5387
6.8 https://vulners.com/cve/CVE-2016-5387
CVE-2016-03246
8 https://vulners.com/cve/CVE-2016-5387
                                                   https://vulners.com/cve/CVE-2014-0226
https://vulners.com/cnvd/CNVD-2022-03224
             CVE-2014-0226
             CNVD-2022-03224 6.8
                                                                         6.8
6.8
            https://vulners.com/cve/CVE-2022-28615
https://vulners.com/cve/CVE-2021-44224
https://vulners.com/cve/CVE-2017-9788
            CVE-2022-28615 6.4
CVE-2021-44224 6.4
            CVE-2017-9788
CVE-2019-0217
                                                   https://vulners.com/cve/CVE-2019-0217
https://vulners.com/cve/CVE-2022-22721
             CVE-2022-22721
                                                   https://vulners.com/cve/CVE-2020-1927
https://vulners.com/cve/CVE-2019-10098
             CVF-2020-1927
             CVE-2019-10098
                                       5.8
            1337DAY-ID-33577
SSV:96537 5.0
                                                    5.8 https://vulners.com/zdt/1337DAY-ID-33577
https://vulners.com/seebug/SSV:96537 *EXPLOIT
                                                                                                                                                *EXPLOIT*
                                                                                                                     *EXPLOIT*
             SSV:62058
                                                    https://vulners.com/seebug/SSV:62058
```

When using Nmap-vulners to scan scanme.nmap.org for vulnerabilities, I found the following significant vulnerabilities (ones with the highest severity ratings) for two open ports:

- 22/tcp has several OpenSSH related vulnerabilities.
 - CVE-2015-5600: A function in OpenSSH does not properly restrict the processing of keyboard-interactive devices within a single connection, which makes it easier for remote attackers to conduct brute-force attacks
 - CVE-2015-656: Cross-site scripting (XSS) vulnerability in the login page in Cisco Network Analysis Module (NAM) allows remote attackers to inject arbitrary web script or HTML
 - CVE-2021-41617: SSHD allows privilege escalation because supplemental groups are not initialized as expected
- 80/tcp has several Apache HTTP server vulnerabilities, including:
 - CVE-2022-31813: Apache HTTP Server 2.4.53 and earlier may not send the X-Forwarded-* headers to the origin server- may be used to bypass IP based authentication on the origin server/application.
 - CVE-2022-23943: Write vulnerability in mod_sed of Apache HTTP Server allows an attacker to overwrite heap memory with possibly attacker provided data

 CVE-2022-22720: Apache HTTP Server 2.4.52 and earlier fails to close inbound connection when errors are encountered, exposing the server to HTTP Request Smuggling