

Grepping for Gold SANS Holiday Hack 2021

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1. What port does 34.76.1.22 have open?

```
elf@429343ddb216:~$ grep -i 34.76.1.22 bigscan.gnmap
Host: 34.76.1.22 ()      Status: Up
Host: 34.76.1.22 ()      Ports: 62078/open/tcp//iphone-sync///      Ignored State: closed (999)
elf@429343ddb216:~$
```

Answer: 62078

Command: grep 34.76.1.22 bigscan.gnmap

Explanation: This command searches for and displays all the lines containing the specified IP address from the specified file.

2. What port does 34.77.207.226 have open?

```
elf@429343ddb216:~$ grep 34.77.207.226 bigscan.gnmap
Host: 34.77.207.226 ()      Status: Up
Host: 34.77.207.226 ()      Ports: 8080/open/tcp//http-proxy///      Ignored State: filtered (999)
elf@429343ddb216:~$
```

Answer: 8080

Command: grep 34.77.207.226 bigscan.gnmap

Explanation: This command searches for and displays all the lines containing the specified IP address from the specified file.

3. How many hosts appear "Up" in the scan?

```
elf@85c635e3cded:~$ grep -c Up bigscan.gnmap
26054
```

Answer: 26054

Command: grep -c Up bigscan.gnmap

Explanation: This command searches for the specified string in the file. The "-c" flag instructs the grep command to output the number of lines in the file that contain the string.

4. How many hosts have a web port open? (Let's just use TCP ports 80, 443, and 8080)

```
elf@c77c3d19e06f:~$ grep -Ec "80/open|443/open|8080/open" bigscan.gnmap
14372
```

Answer: 14372

Command: `grep -Ec "(80|443|8080)/open" bigscan.gnmap`

Explanation: This command searches for the specified ports in the file. The “-E” flag instructs the grep command to accept extended regular expressions. The “-c” flag instructs the grep command to output the number of lines in the file that contain the string.

5. How many hosts with status Up have no (detected) open TCP ports?

```
elf@8e446b7d600b:~$ echo $(( $(grep -c Up bigscan.gnmap) - $(grep -Ec Ports bigscan.gnmap) ))
402
```

Answer: 402

Command: `echo $(($(grep -c Up bigscan.gnmap) - $(grep -Ec Ports bigscan.gnmap)))`

Explanation: The counted results of the two grep commands are enclosed in “\$((...))”, which indicates that the shell should perform arithmetic operations on the enclosed expressions.

6. What's the greatest number of TCP ports any one host has open?

```
elf@d4dc86399426:~$ grep -Ec "(open.*)" {5,} bigscan.gnmap && grep -Ec "(open.*)" {10,} bigscan.g
nmap && grep -Ec "(open.*)" {12,} bigscan.gnmap
12919
259
5
```

Answer: 12

Command: `grep -Ec "(open.*)" {5,} bigscan.gnmap && grep -Ec "(open.*)" {10,} bigscan.gnmap && grep -Ec "(open.*)" {12,} bigscan.gnmap`

Explanation: This command begins with a search for lines in the file that contain the regular expression pattern "(open.*)" {5,}. The pattern "(open.*)" {5,}" matches lines that have the string "open" followed by any characters repeated at least 5 or more times. The && operator is used to combine multiple grep commands that use the same search pattern but for greater instances of repetition (10 and 12).