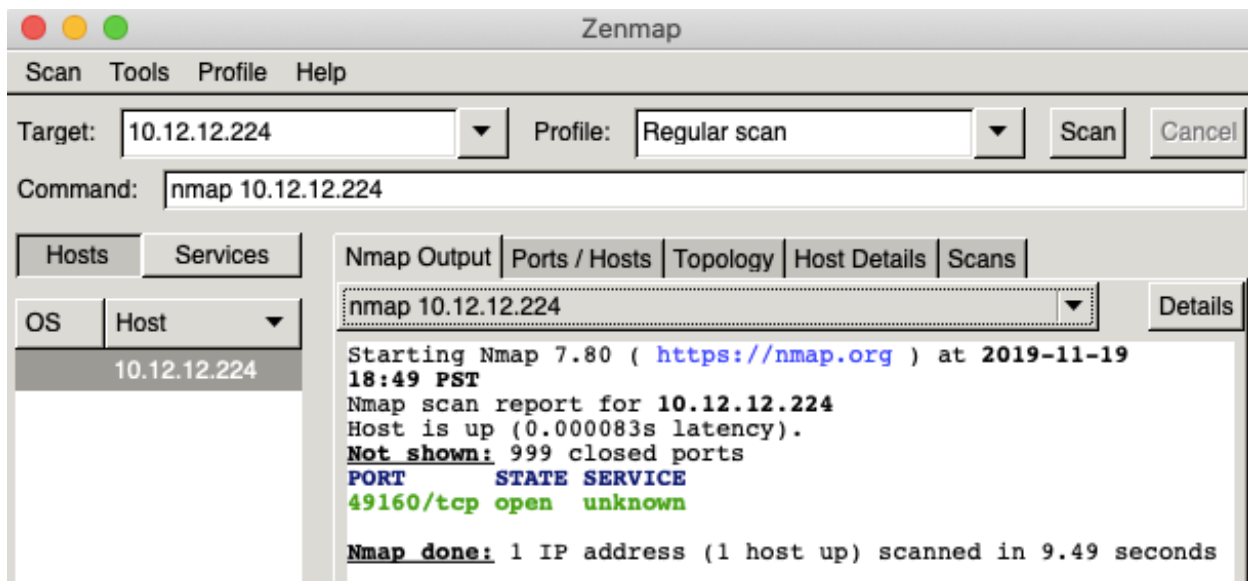








































In this assignment, you get a chance to test and learn about a wonderful free network scanner. It is called nmap (Network Mapper) and has a new graphical interface called zmap. The process is simple. But, before you do anything else, make sure you study the section about nmap on the PowerPoint slides.

1. Go to the download site and review the information about nmap. <https://nmap.org/download.html> (Links to an external site.)
2. Download and install it on your PC. nmap will scan and discover PCs and Macs and Printers. Like most business tools, it is not likely that it will run on a Mac. If you have a Mac without Virtual PC, then you should try it on a PC.
3. After installing, find out your IP address. You can use the Ipconfig command prompt to find out what your address is. Mine was 10.0.0.8. Yours will probably be something else.
4. Then on the scan line type something like the following: 10.0.0.0/4. 0.0.0 is my network address. Yours will most likely be different. Again, use your own IP numbers not mine
5. Then press the scan. This will take 10 minutes or so and will produce a longish report. It should be very similar to what I have saved on the PowerPoint slides.
6. If done correctly, the report will identify open ports and their status and name of your computer and others in the network and your printers etc.
7. Highlight all main items and copy and paste into a Word document and send submit it.



In this exercise, you will download the Acrylic Wi-Fi Scanner, a wonderful tool. Please refer to my PowerPoint presentation to see a sample page. As you will notice, this tool can display Mac addresses of all Wi-Fi devices including your cell phone. You may white out part of the Mac address, if you wish so. Please execute and send me screen shot similar to the one on the slide but of your environment.

Thank you and have a nice time with these useful assignments!

| SSID | BSSID | Alias | Ch... | Band | Security | Vendor | Mode | Level (SNR) | Signal | Signal... | Avg | Max | Min | Noise | Nois... | Last seen |
|--|--------------------|-------|-------|--------|---------------------------|----------|-------|---|--------|-----------|-----|-----|-----|-------|---------|--------------|
| <input checked="" type="checkbox"/> #SFLibrar... | 8A:15:54:50:F4... | | 153 | 5GHz | Open | 8A:15:54 | ac |  | -91 | 9% | -89 | -87 | -91 | -96 | 4% | now |
| <input type="checkbox"/> Stacks&S... | 86:15:54:50:FD... | | 48 | 5GHz | WPA2 Personal | 86:15:54 | ac |  | -82 | 18% | -82 | -81 | -83 | -96 | 4% | now |
| <input type="checkbox"/> #SFLibrar... | 8A:15:54:50:E8... | | 44 | 5GHz | Open | 8A:15:54 | ac |  | -75 | 25% | -76 | -75 | -77 | -96 | 4% | now |
| <input type="checkbox"/> Stacks&S... | 86:15:54:50:F4... | | 153 | 5GHz | WPA2 Personal | 86:15:54 | ac |  | -90 | 10% | -90 | -89 | -92 | -96 | 4% | now |
| <input checked="" type="checkbox"/> #SFLibrar... | 8A:15:54:50:D9... | | 36 | 5GHz | Open | 8A:15:54 | ac |  | -89 | 11% | -88 | -85 | -90 | -96 | 4% | now |
| <input checked="" type="checkbox"/> #SFLibrar... | 8A:15:54:50:D4... | | 44 | 5GHz | Open | 8A:15:54 | ac |  | -89 | 11% | -90 | -89 | -90 | -96 | 4% | now |
| <input checked="" type="checkbox"/> #SFLibrar... | 8A:15:54:50:D4... | | 48 | 5GHz | Open | 8A:15:54 | ac |  | -90 | 10% | -92 | -90 | -92 | -96 | 4% | now |
| <input type="checkbox"/> Verizon-M... | 00:15:FF:DA:B7... | | 149 | 5GHz | WPA2 Personal | Novatel | ac |  | -88 | 12% | -89 | -87 | -89 | -96 | 4% | now |
| <input type="checkbox"/> Stacks&S... | 86:15:54:50:F4... | | 36 | 5GHz | WPA2 Personal | 86:15:54 | ac |  | -80 | 20% | -80 | -79 | -80 | -96 | 4% | now |
| <input type="checkbox"/> LSC Guest | F2:9F:C2:71:80:... | | 6 | 2.4GHz | WPA2 Personal | F2:9F:C2 | b/g/n |  | -76 | 24% | -75 | -74 | -76 | -96 | 4% | now |
| <input checked="" type="checkbox"/> #SFLibrar... | 8A:15:54:50:DA... | | 40 | 5GHz | Open | 8A:15:54 | ac |  | -78 | 22% | -78 | -76 | -78 | -96 | 4% | now |
| <input type="checkbox"/> Stacks&S... | 86:15:54:50:DE... | | 40 | 5GHz | WPA2 Personal | 86:15:54 | ac |  | -91 | 9% | -92 | -90 | -92 | -96 | 4% | now |
| <input type="checkbox"/> Stacks&S... | 86:15:54:50:DA... | | 40 | 5GHz | WPA2 Personal | 86:15:54 | ac |  | -78 | 22% | -79 | -77 | -90 | -96 | 4% | now |
| <input type="checkbox"/> Platform9... | B2:15:54:50:D4... | | 44 | 5GHz | WPA2 Enterprise | B2:15:54 | ac |  | - | 0% | -90 | -90 | -90 | - | 0% | 1min 21s ago |
| <input type="checkbox"/> Verizon-M... | 28:80:A2:25:E8... | | 149 | 5GHz | WPA2 Personal | Novatel | ac |  | -90 | 10% | -88 | -86 | -90 | -96 | 4% | now |
| <input type="checkbox"/> Stacks&S... | 86:15:54:50:E1... | | 153 | 5GHz | WPA2 Personal | 86:15:54 | ac |  | -90 | 10% | -90 | -88 | -92 | -96 | 4% | now |
| <input checked="" type="checkbox"/> #SFLibrar... | E2:CB:AC:50:F... | | 48 | 5GHz | Open | E2:CB:AC | ac |  | -89 | 11% | -87 | -85 | -89 | -96 | 4% | now |
| <input type="checkbox"/> Stacks&S... | 86:15:54:50:DF... | | 149 | 5GHz | WPA2 Personal | 86:15:54 | ac |  | -76 | 24% | -75 | -75 | -76 | -96 | 4% | now |
| <input type="checkbox"/> Stacks&S... | 86:15:54:50:EE... | | 48 | 5GHz | WPA2 Personal | 86:15:54 | ac |  | -87 | 13% | -86 | -85 | -87 | -96 | 4% | now |
| <input type="checkbox"/> cjecje | 00:AE:FA:5F:19... | | 11 | 2.4GHz | WPA2 Personal | Murata | b/g/n |  | -57 | 43% | -58 | -57 | -60 | -96 | 4% | now |
| <input type="checkbox"/> Verizon-M... | 28:80:A2:25:E8... | | 11 | 2.4GHz | WPA2 Personal | Novatel | b/g/n |  | -75 | 25% | -75 | -72 | -78 | -96 | 4% | now |
| <input type="checkbox"/> Stacks&S... | 86:15:54:50:D9... | | 36 | 5GHz | WPA2 Personal | 86:15:54 | ac |  | -87 | 13% | -88 | -86 | -90 | -96 | 4% | now |
| <input checked="" type="checkbox"/> #SFLibrar... | 8A:15:54:50:F4... | | 36 | 5GHz | Open | 8A:15:54 | ac |  | -80 | 20% | -81 | -79 | -88 | -96 | 4% | now |
| <input type="checkbox"/> Stacks&S... | 02:18:5A:14:60... | | 153 | 5GHz | WPA2 Personal | 02:18:5A | ac |  | -73 | 27% | -73 | -72 | -74 | -96 | 4% | now |
| <input type="checkbox"/> Stacks&S... | 86:15:54:50:D4... | | 40 | 5GHz | WPA2 Personal | 86:15:54 | ac |  | -87 | 13% | -88 | -87 | -89 | -96 | 4% | now |
| <input checked="" type="checkbox"/> #SFLibrar... | 8A:15:54:50:D4... | | 161 | 5GHz | Open | 8A:15:54 | ac |  | -90 | 10% | -89 | -88 | -90 | -95 | 5% | now |
| <input type="checkbox"/> LSC Guest | 02:9F:C2:72:80... | | 36... | 5GHz | WPA2 Personal | 02:9F:C2 | ac |  | -89 | 11% | -89 | -88 | -90 | -96 | 4% | now |
| <input checked="" type="checkbox"/> #SFLibrar... | 02:18:5A:14:60... | | 153 | 5GHz | Open | 02:18:5A | ac |  | -73 | 27% | -73 | -72 | -73 | -96 | 4% | now |
| <input type="checkbox"/> Stacks&S... | 86:15:54:50:F1... | | 161 | 5GHz | WPA2 Personal | 86:15:54 | ac |  | -85 | 15% | -86 | -85 | -87 | -95 | 5% | now |
| <input checked="" type="checkbox"/> #SFLibrar... | 8A:15:54:50:E0... | | 161 | 5GHz | Open | 8A:15:54 | ac |  | -62 | 38% | -64 | -62 | -64 | -95 | 5% | now |
| <input checked="" type="checkbox"/> #SFLibrar... | 8A:15:54:50:E1... | | 153 | 5GHz | Open | 8A:15:54 | ac |  | -90 | 10% | -91 | -88 | -92 | -96 | 4% | now |
| <input type="checkbox"/> Stacks&S... | 86:15:54:50:F3... | | 157 | 5GHz | WPA2 Personal | 86:15:54 | ac |  | -70 | 30% | -71 | -70 | -71 | -96 | 4% | now |
| <input type="checkbox"/> SFPL-TBBC | A6:15:54:50:E1... | | 153 | 5GHz | WPA2 Personal | A6:15:54 | ac |  | -91 | 9% | -89 | -89 | -91 | -96 | 4% | now |
| <input type="checkbox"/> Stacks&S... | 86:15:54:50:D4... | | 48 | 5GHz | WPA2 Per... WPA2 Personal | | ac |  | -91 | 9% | -93 | -91 | -93 | -96 | 4% | now |
| <input type="checkbox"/> ClickShar... | BC:30:7E:BC:4F... | | 36 | 5GHz | WPA2 Personal | Wistron | a/n |  | -88 | 12% | -88 | -85 | -89 | -96 | 4% | now |
| <input checked="" type="checkbox"/> #SFLibrar... | 8A:15:54:50:EE... | | 48 | 5GHz | Open | 8A:15:54 | ac |  | -88 | 12% | -85 | -84 | -88 | -96 | 4% | now |
| <input type="checkbox"/> XFINITY | 16:05:01:7D:54:60 | | 36 | 5GHz | WPA2 Enterprise | 16:05:01 | |  | - | 0% | -92 | -90 | -93 | - | 0% | 1min 21s ago |
| <input type="checkbox"/> Stacks&S... | 86:15:54:50:E8... | | 44 | 5GHz | WPA2 Personal | 86:15:54 | ac |  | -75 | 25% | -76 | -75 | -77 | -96 | 4% | now |