

Topic 04- Scanning Exercises

Programming for cybersecurity

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These are a series of exercises, scanning for vulnerabilities and possible attacks.

I am not planning of awarding grades for these, but I will certainly go through and give feedback to any of these programs you wish to submit to me

1. Write a program (Client) that scans a particular ip address for open sockets. It can then print out those port numbers.
2. Write a program (client) that scans a range of ip addresses to see which ones have port 80 open.
3. Write a honey pot (server) that logs all attempts to connect to particular range of ports.

Do the following exercise require sockets

4. Write a honey pot (Server) program that pretends to serve webpages
5. Write a honey pot (server) that pretends to be an open telnet server, or ssh
6. Write a program that scans the contents of a GitHub account (ie all the public repositories in the account for API keys). (do you need to use sockets for this?)