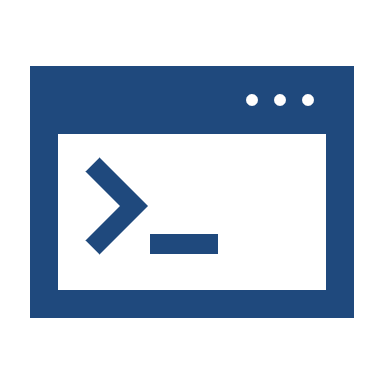


Scan\_and\_Grab

**https://github.com/98cstillm/Scan\_and\_Grab**

**Christal Stillman**



# Project Goals

|  |  |
| --- | --- |
| Goal | Goal Description |
| Automation | Create a tool that can provide cybersecurity professionals with the ability to automate & improve efficiency |
| Security | Create a tool that can assist with providing confidentiality, integrity, and accessibility on a node or network. |
| Identification | Create a tool that can help identify potential vulnerabilities and actions on a node or network. |

# Project Plan & Timeline

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Research** | Closed Book | **Build** | Monitor | **Test** | Test Dummy |  |

**Due Date (all components):** October 25, 2020

|  |  |  |
| --- | --- | --- |
|  | Due Date | Objective Description |
| **□** | Week 1  10/3/20 | Research common network security needs within the cybersecurity infrastructure & the ways they can be alleviated by security automation tools. |
| **□** | Week 1  10/3/20 | Pick a tool that will provide automation, security, identification, and documentation to users, (Port scanner) |
| **□** | Week 1  10/3/20 | Begin research on the tool and identify common features and results that are created by that tool & think of ways to capture that in mine. |
| **□** | Week 2  10/10/20 | Research to gain a better understanding of how socket connections work between the host and the target when port scanning. |
| **□** | Week 2  10/10/20 | Research methods used to create the actual scanning portion of a port scanner. |
| **□** | Week 2  10/10/20 | Consider what environments, software, and python modules will be necessary for a port scanner. Decide what system will be my target. |
| **□** | Week 3  10/17/20 | Create script for socket connection using the socket module & necessary functions. Be sure to carefully add comments (#) to describe each part of code). |
| **□** | Week 3  10/17/20 | Create opportunities in script to receive input from user regarding desired target IP Address and port range. (Add a for and except loop to handle invalid formats possibly?) Be sure to carefully add comments (#) to describe each part of code). |
| **□** | Week 3  10/17/20 | Use VM Ware Workstation to create a Metasploitable 2 machine that will serve as the demonstrative target for this tool. Metasploitable also has a list of known open ports, so this will act as a control to know that the scanner is identifying the correct ports. |
| **□** | Week 4  10/23/20 | Begin testing the port scanner’s ability to connect to the target. Trouble shoot if needed and document every change. |
| **□** | Week 4  10/23/20 | Create GitHub repository & README file to house script information, project plan & dependencies. |
| **□** | Week 4  10/23/20 | Film demonstrative video (use screen cast) & compile all parts to turn in! |