**Template for the PIVOT Open Lab/Challenge Project:**

**Version 0.9**

Lab / Challenge Developers,

We have an eager audience of participants ready to try out your new lab/challenge - they just need a little info to get started. Please provide some basic details of your work by filling out this brief template.

Keep in mind that we encourage creativity and new ideas, so if your lab or challenge does not fit some of the questions below, that’s OK! Just let us know as much as possible about the special thing you’ve built. If you have any questions, please contact ????.

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| Title of Lab / Challenge: **Introduction to nmap part 1**  **The Basic Facts**  *Who?* Author’s Name: **Jeff Hanson**  Author’s Organization: **Damascus High School Academy of Information Technology**  *What?* Short description of the Lab/Challenge : **This in an introduction to the nmap tool and is the first installment in a series of 3 or 4 using nmap. This includes a 22 minute instrunction followed by a set of 5 capture files**  *Why?* Skills that can be learned from this Lab/Challenge: **Network scanning using nmap and reading the packet capture files from a network scan**  *Pre-Req?* Skills that are needed going into this Lab/Challenge: **Wireshark skills, general knowledge of TCP and IP addressing and ports**  *Difficulty Level ? (circle one)* Introductory - Moderate - **Advanced**  *How long?* to Complete Instruction: **22 minute video**  to Complete Lab / Challenge: **approximately 45-60 minutes** |

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| **A little more detail**  *How does it work?*  - Type of Hands-on Lab / Challenge   * Step-by-Step Lab * Capture the Flag * **Solve the Puzzle** * Other. Please describe: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   - Scoring mechanism:   * No scoring (lab only) * Shortest time wins * **Point-based system** * Other. Please describe: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   *How many?*  - Is the Challenge / Lab for individuals or teams? **individual**  - If groups, what is the ideal team size? \_\_\_\_\_\_ people per team  - How much is "too much" - is there a maximum scale of number of participants for the challenge, given performance or other characteristics? Yes/No  Maximum number \_\_\_\_\_\_\_\_ people  *How will I learn*? - Instructional Method (check one or more)  🗹 Video   * Article / Presentation * None – the challenge explains itself * Other. Please describe: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Checklist**  *What you get:*  - Assets provided in this Lab / Challenge. (Please list all, such as pcap files, VM images, evidence files, etc.): **5 pcap files and a set of questions**  *What you need #1:*  **-** Infrastructure Requirements needed to run the Lab / Challenge (Please list all, including required devices such as PCs, tablets, local networking configuration, Internet connectivity, bypass of firewall or proxy restrictions, etc.): **Need computer with Wireshark**  *What you need #2:*  **-** Assets needed in Advance for the Lab / Challenge (Please list all, such as virtual machines, operating system installs, application installations, etc.): **Need computer with Internet access to download video and files, need Wireshark to follow along and view packet capture files used in the instruction.** |

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| **Wrapping it up**  Can you give us a longer narrative that tells us what makes the Lab / Challenge fun, interesting, and targets the development of useful information security skills?  **This topic is more of the investigative style and helps students to understand the process of network scanning techniques. This is the first of three or four labs using the namp tool.**  If you have had a chance to look at the existing challenges, can you suggest where your Lab/Challenge fits into that Roadmap or Sequence?  **This is designed to be a challenge for individual students and would fit in best after the student has a solid understanding of the fundamentals of data transfer and this serves as an introduction on network scanning.** |