**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: Pivot: Basic Port Scanning with Python  Location on Web: **https://samsclass.info/124/proj14/pivot-python-portscan.htm**  **The Basic Facts**  *Who?* Author’s Name: Sam Bowne  Author’s Organization: City College San Francisco  *What?* Short description of the Lab/Challenge  Basic port scanning with Python.  *Why?* Skills that can be learned from this Lab/Challenge  Simple Python programming: user input, network connections, and syntax  *Pre-Req?* Skills that are needed going into this Lab/Challenge  Ability to use a text editor in Kali Linux such as nano is recommended; students could also use a Windows python development environment.  *Difficulty Level ? (circle one)* Introductory -  *How long?* to Complete Instruction: 15 min.  to Complete Lab / Challenge: 30 min. |
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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   - Scoring mechanism:   * No scoring (lab only) * Other. Please describe: Success/Fail in finding the flag   *How many?*  - Is the Challenge / Lab for individuals or teams? Individuals or pairs of students    *How will I learn*? - Instructional Method (check one or more)   * None – the challenge explains itself |
| **Checklist**  *What you get:*  - Assets provided in this Lab / Challenge. (Please list all, such as pcap files, VM images, evidence files, etc.):  **There's a server running for students to hunt for flags on at "attack.samsclass.info"**  *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.)  **None**  *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.):  **Kali Linux machines for students, real or virtual, or some other system that can run Python** |

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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?  The main point of this exercise is to get students used to programming, solving problems with logic, and overcoming obstacles such as syntax errors. Many beginners are afraid of programming and this exercise should prove to them that it can be easy and fun.  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? |