All of these lessons are based on the work done by [SANS](https://pen-testing.sans.org/) and [CounterHack](https://www.counterhackchallenges.com/) to create a terrific challenge site. Even better, they keep the site running after the competition ends so that people interested in IT Security can hone their skills. It’s a great Cyber Range!

This work is shared under the [Creative Commons Attribution 4.0 License](https://creativecommons.org/licenses/by/4.0/legalcode). You may use this work as long as you give me credit.

These lessons were developed for seniors at the [Shenandoah Valley Governor’s School](https://svgsstudentnews.wordpress.com/), Fishersville, VA, with assistance and support from the school and the students.

Start with the Winter Wonderland challenge in Linux challenges.zip, as the lesson contains information to help you get started on [the 2017 SANS Holiday Hack Challenge](https://holidayhackchallenge.com/2017/) website.

The Letters2Santa lessons lead students through the first attack in the challenge and assume that the students have already completed the Linux challenges to gain access to the Hints.

The Santa’s SMB lessons assume that the students have completed the Letters2Santa challenge, as they need the credentials they discover there.

The EWA lessons build on Letters2Santa and Santa’s SMB, and demonstrate what happens when encryption is poorly implemented.

The answers to the challenges themselves are published on the Holiday Hack Challenge web site, and several other places. Therefore, these lessons should not be used as a test, as anyone who can use Google can find the answers. The are intended to lead students through a fun, real world hacking experience.

John York
john@cardinalcybersec.com

Suggested order:

Linux challenge Winter Wonderland
All other Linux challenges
Letters to Santa
Santa’s SMB
Elf Web Access