LEARNING LINUX

One operating system that is commonly used in our CyberCenturion competition, is open-sourced Linux. Below are several resources based on Linux security that will be handy for you to know for the competition.

UBUNTU

Ubuntu is an ancient African word meaning 'humanity to others'. It also means 'I am what I am because of who we all are'.

In computer-talk, however, Ubuntu is a flavour (or 'type') of Linux that has been used in past online rounds of the CyberCenturion competition. Its creators say that the Ubuntu operating system brings the spirit of Ubuntu to the world of computers.

How to use Ubuntu

Teams may find it helpful to download a clean; i.e. without configured vulnerabilities, image of Ubuntu with which to practice (the link can be found below). This will create an Ubuntu 12.04 image.

1. Download an ISO file from http://linux.softpedia.com/progDownload/Ubuntu-Precise-Pangolin-Download-76997.html

2. Open VMware Player. Select "Create a New Virtual Machine"

3. Select "Installer disc image file (iso)." Browse to the ISO you downloaded. Click "Next"

4. Enter a name, user name, and password. Click "Next". Name the Virtual Machine. Click "Next"

5. Unless you wish to assign more hard drive space to the image, click "Next". Click "Finish"

6. Wait for Ubuntu to install in the Virtual Machine. Log into the Virtual Machine using the credentials you created.

UBUNTU RESOURCES

The following resources may help teams as they train on the Linux operating system during CyberCenturion.

- **Ubuntu Forum** - A community for Ubuntu support
- **Ask Ubuntu** - A question-and-answer site for Ubuntu users and developers
- **Ubuntu Manual** - A beginner's guide to Ubuntu
- **Ubuntu Trusty** - A wiki of resources to introduce users to Ubuntu

For an additional resource on learning Ubuntu and to see how to configure password policy in the operating system, see **this YouTube video** created by Texas A&M University Corpus Christi on a National Science Foundation grant.

OTHER LINUX FLAVORS

CyberCenturion has not used other Linux flavours in the online rounds of previous seasons. However, this may not be the case with future versions of the CyberCenturion Competition System. Stay tuned to this page for more information.

You can also check out **www.distrowatch.com** for practice images of, and information on, other Linux distributions such as Fedora, Mint, Debian, etc.
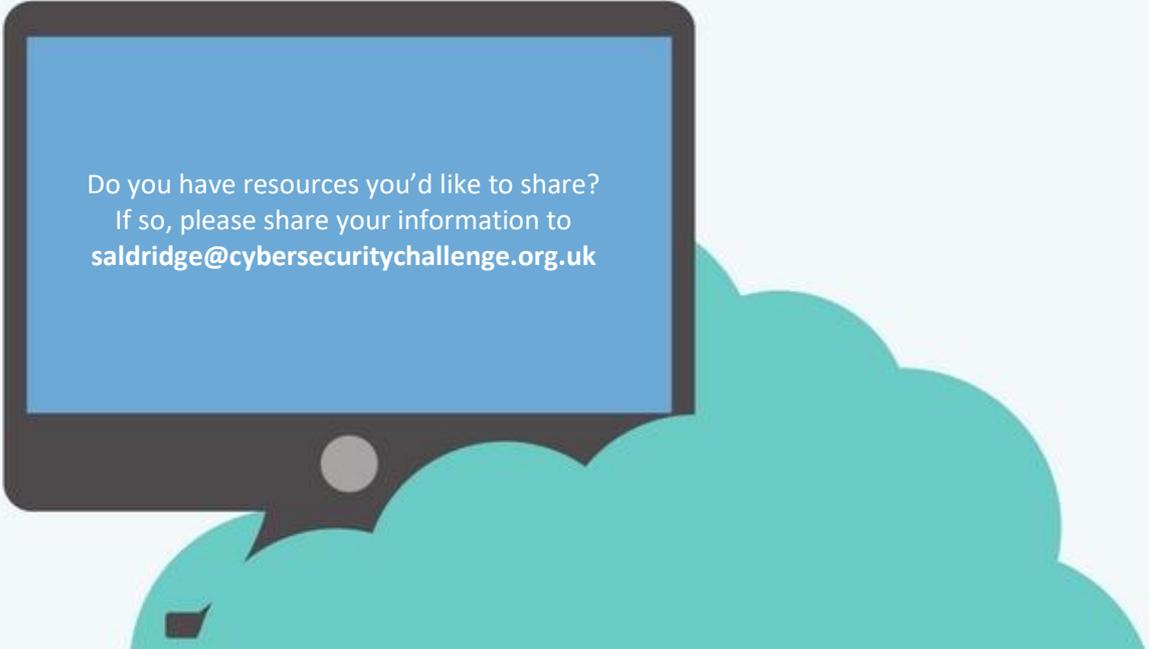
GENERAL LINUX RESOURCES

The following resources may be useful for training with all Linux flavours:

Linode Library - Guides for new and advanced Linux users

Linux Command - A tutorial on the Linux command line

nixCraft - Linux how-tos and tutorials

Webmin - A web-based interface for Linux administration

Do you have resources you'd like to share?
If so, please share your information to
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