Software Preparation for Lab-Buffer Overflow

1. Go to: https://www.virtualbox.org/wiki/Downloads

Download and install the most recent version of Virtual Box, depending on which OS you are using and depending on whether your machine is 32-bit or 64-bit.

2. Go to: http://www.cis.syr.edu/~wedu/seed/lab_env.html

Go to: (New) SEEDUbuntu12.04.zip, and download it via Main Server or Backup Server

• All software used in the lab environment is open-source and free.

Virtual Machine Software (VirtualBox)

Install the free VirtualBox. Our pre-built VM images can be used by both VMWare and VirtualBox. Here are some instructions for VirtualBox:

- How to run our pre-built VM image with VirtualBox.
- Network Configuration in VirtualBox for SEED labs ("NAT Network"): This is a newly added network type in VirtualBox (since version 4.3 in 2014); it basically combines the NAT adapter and Host-only adapter into one adapter called "NAT Network". We will be using this adapter for all our SEED labs, instead of the previous "NAT + Host-only" option. You need to make sure that your VirtualBox is updated to the most recent version.
- Loading Multiple VMs into VirtualBox: Problems and Solutions.

Pre-built Virtual Machine Images (Ubuntu)

For your covenience, we have built VM images that you can download and use. All the necessary tools, software, and libraries are already installed in this VM. If you have a trouble downloading the image, feel free to send an email to wedu@syr.edu, and we will help you get it.

Currently, we have three images (Ubuntu9.11, Ubuntu11.04, and Ubuntu12.04). Most labs can be conducted in any of these images. Some labs depend on a particular image, and in that case, the dependence will be clearly stated in the lab's web site. If you do not see such a statement, assume no dependence. All the labs that work in Ubuntu 11.04 also work in Ubuntu12.04, so there is no need to use Ubuntu11.04 any more. We have already stopped supporting Ubuntu11.04.

- (New) SEEDUbuntu12.04.zip: This is a revised Ubuntu 12.04 image (revised in Jaunary 2016). In this image, we added the support for several of the newly developed labs.
  - Download the image from the following server (the MD5 checksum of the file is 6ec9c429a2f4a9163530ada20f0621dc):
    - Main server
    - Backup server
  - User Manual: includes the account and password information, list of software and servers installed, and configuration.
  - VM Customization: Some labs require multiple VMs; to help you easily identify which VMs you are in, you can do some simple customization. You need to download this file (Customization.zip) as well

- SEEDUbuntu12.04.zip: This image, built in September 2013, is based on Ubuntu 12.04. This VM officially replaces SEEDUbuntu11.04. All the labs that work in SEEUbuntu11.04 also work in this new VM.
  - Download the image from one of the following servers (the MD5 checksum of the file is 50a3ba75ddd49b6647c2411d68edceea):
    - Server at Syracuse University.
  - User Manual: includes the account and password information, list of software and servers installed, and configuration.
  - Unzip the image, and follow our VirtualBox instruction to run it in VirtualBox.