

Secure Coding Practices and Automated Assessment Tools

Prof. Barton P. Miller, University of Wisconsin, bart@cs.wisc.edu

Dr. Elisa Heymann, University of Wisconsin, elisa@cs.wisc.edu

Software assurance tools – tools that scan the source or binary code of a program to find weaknesses – are the *first line of defense* in assessing the security of a software project. These tools can catch flaws in a program that can affect both the correctness and safety of the code. This part of the tutorial is relevant to anyone wanting to understand how those tools work, and learn how to use these automated assessment tools to minimize security flaws in the software they develop or manage.

To attend this tutorial, you will need to:

1. Bring your own laptop.
2. Have VirtualBox installed on your machine.
 - a. Go to <https://www.virtualbox.org/wiki/Downloads> and download VirtualBox.
 - b. Execute the program downloaded.
 - c. Check that you are able to run VirtualBox.
3. For the class exercises, we will use a virtual machine image.

Please download it from:

<http://www.cs.wisc.edu/mist/web-security.ova> (2.2 GB)

Save it on the local disk of the machine you will be using for the tutorial. If you have problems downloading this image, we will have copies at the class.

If you have any questions before the tutorial, please contact elisa@cs.wisc.edu