Security Practical 4

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Practical 4

Background

Welcome to the last practical. In this practical you have several options available to improve your skills.

Finished off the previous practicals

If you have not yet finished tasks in the previous practicals, it is recommended to finish up these before going further.

Advanced software security

This one is a little different to the previous practicals as you will be using a VM with its own instructions. The download link for this is:

```
https://durhamuniversity-my.sharepoint.com/personal/xzpq33_durham_ac_uk/_layouts/
15/guestaccess.aspx?guestaccesstoken=jeVvTA8O%2fYRlwkgmwINmUC6BUwsCaGHexbFcldtAZFY%
3d&docid=2_04633e43e401041f6aa06bc6dd1e2d7d9&rev=1
```

- There is a 4.7gb Virtual Machine (.ova)
- On the managed version of Windows in the lab rooms, it is recommended to copy the file to C: temp before using it (if you wish to check the file integrity, the md5sum is: 1e310c67cd2a50012a84336851df735e)
- Launch VirtualBox from the app menu.
- Import the VM from C: temp (will take about 2-3 mins, even though the timer says 12 mins).
- Before running, change the VM settings from USB 2.0 to USB 1.0 (if you don't do this, you will get an error when you try to run).
- Login with the username 'level1' and the password 'level1'.
- You may make the VM full-screen.
- Inside the VM, go to your files (blue icon in the toolbar), and double-click the README and the exploit.py files.
- Your challenge is to work your way through the levels to become root.
- Each time you complete a level, you will be given the password to login to level2, level3, etc. Write these down.
- You are not expected to finish within the lab time, and you do not need to finish this last practical at home - it is a final challenge - complete as much as you can.
- You may wish to work collaboratively on the solutions in groups of 2-5.
- Also you may explore Kali and/or copy the VM to your home machines - it's full of awesome tools.
- Good luck!

Hack the box

Now is a good time to join a cyber security community. Head over to `https://www.hackthebox.eu/ invite`, hack your way in, and start working your way through it!