

# Wireshark HTTP and DNS Labs Addendum

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Reminder: When printing packet data, choose the “Selected packet only” radio button. The default is to print “All packets,” which is usually overkill and wastes paper.

## Capturing Live Data

1. To capture live network data, you must run Wireshark as root. Follow these steps:

(a) Open a command-line shell: **Applications** → **Accessories** → **Terminal**.

(b) Enter the command:

```
wireshark &
```

(c) Wireshark will run in the background, popping up its main window. A small pop-up warning dialog box might also pop up. If necessary, dismiss it.

2. To start a packet capture session, do the following:

(a) Open **Capture** → **Interfaces**. Click the **Options** button to the right of the **eth0** device.

(b) **Heed the following if you’re running Wireshark remotely.** The Capture Options might show a Capture Filter similar to:

```
not ip host bluebird.goucher.edu
```

Replace that Capture Filter with:

```
not tcp port 22
```

This will filter the SSH packets used by NX during your remote session.

(c) Click the **Start** button to start the capture.

Click the **Stop** button on the main Wireshark window to stop the capture.

## HTTP Lab Addendum

Turn in your responses to the questions asked in the lab.

1. Section 2: If you don’t get the expected response from the URL given in this section, try <http://phoenix.goucher.edu/>.

2. Section 4: One of the image links within the URL given in this section is broken. Instead try `http://phoenix.goucher.edu/~kelliher/s2011/cs325/images.html`.
3. Section 5: Another option is to try `http://phoenix.goucher.edu/~kelliher/s2011/cs325/files`.  
If you look carefully, you notice that Wireshark does the base64 decoding for you.

## DNS Lab Addendum

Turn in your responses to the questions asked in the lab.

1. `nslookup` is available from the Linux command line shell. It's also available from the command line shell in Windows 7. (But why would you want to use 7 when you can use Linux?)
2. Section 2: Under Linux run

```
/sbin/ifconfig eth0
```

from the shell.

3. Section 3: Merlin doesn't use a local DNS cache, so there's nothing to clear.

You can determine the IP addresses of the DNS servers in use on a Linux system by typing

```
cat /etc/resolv.conf
```

from the shell.