

Finolex Academy of Management and Technology, Ratnagiri

Department of Information Technology

Subject:	Networking Lab (ITL401)							
Class:	SE IT / Semester – IV (CBCGS) / Academic year: 2017-18							
Name of Student:	Kazi Jawwad A Rahim							
Roll No:	28	3	Date of performance (DOP) :					
Experiment No:		09	Date of checking (DOC):					
Title: To install Wireshark on Ubuntu.								
Marks:			Teacher's Signature:					

1. Aim: To install Wireshark on Ubuntu.

2. Prerequisites:

Knowledge of

- 1. Ubuntu Commands
- 2. NS2 commands

3. Hardware Requirements:

1. PC with minimum 2GB RAM

4. Software Requirements:

- 1. Linux (Ubuntu 10.04)
- 2. ns-2.34 package
- 3. Wireshark package

5. Learning Objectives:

- 1. Configure Linux operating system for Wireshark installation
- 2. To install packet sniffer Wireshark on Ubuntu.

6. Course Objectives Applicable: LO 4

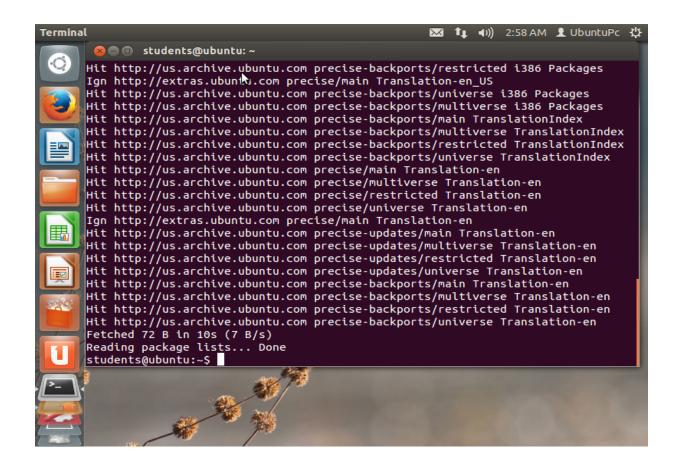
7. Program Outcomes Applicable: PO2, PO4

8. Program Education Objectives Applicable: 1, 3

9. Theory:

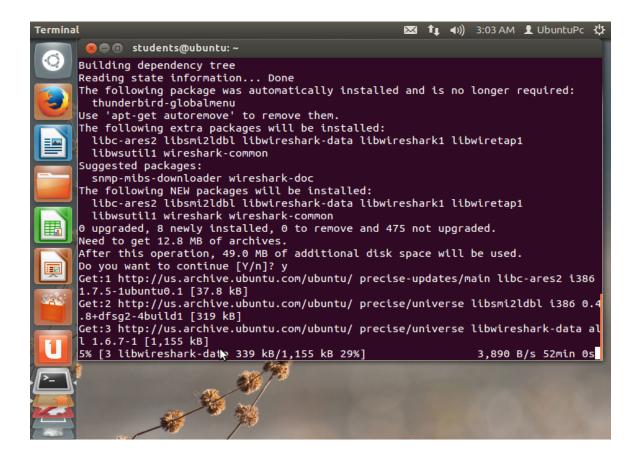
Type following command on terminal

- 1. sudo apt-get install Wireshark
- 2. Type y to continue
- 3. Type following command on terminal sudo apt-get install Wireshark Type y to continue



Terminal Window Output- 1

4. Select yes and Press enter



Terminal Window Output- 2

Now type following commands on terminal:-

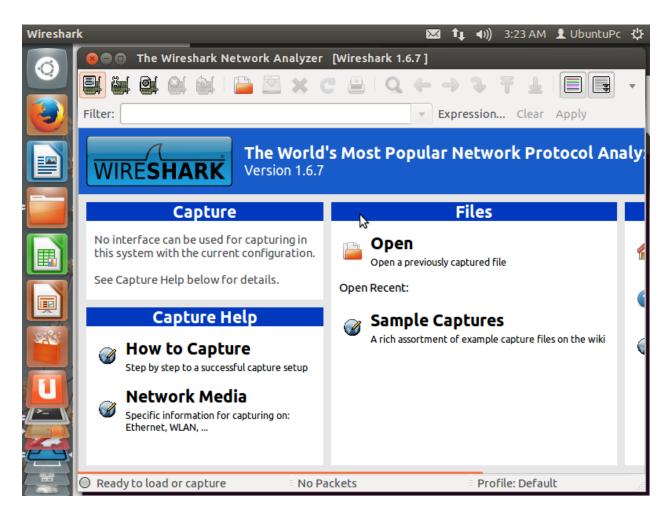
- 1. sudo groupadd Wireshark
- 2. sudo usermod -a -G wireshark YOUR_USER_NAME
- 3. sudo chgrp wireshark /usr/bin/dumpcap
- 4. sudo chmod 750 /usr/bin/dumpcap
- 5. sudo setcap cap_net_raw,cap_net_admin=eip /usr/bin/dumpcap
- 6. sudo getcap /usr/bin/dumpcap

```
Terminal
         风 🖨 🗊 students@ubuntu: ~
       Selecting previously unselected package wireshark.
       Unpacking wireshark (from .../wireshark_1.6.7-1_i386.deb) ...
       Processing triggers for man-db ...
       Processing triggers for desktop-file-utils ...
       Processing triggers for bamfdaemon ...
       Rebuilding /usr/share/applications/bamf.index...
       Processing triggers for gnome-menus ...
       Processing triggers for hicolor-icon-theme ...
       Setting up libc-ares2 (1.7.5-1ubuntu0.1) ...
Setting up libsmi2ldbl (0.4.8+dfsg2-4build1) ...
       Setting up libwireshark-data (1.6.7-1) ...
       Setting up libwsutil1 (1.6.7-1) ...
       Setting up libwiretap1 (1.6.7-1) ...
       Setting up libwireshark1 (1.6.7-1) ...
       Setting up wireshark-common (1.6.7-1) ...
       Setting up wireshark (1.6.7-1) ...
       Processing triggers for libc-bin ..
       ldconfig deferred processing now taking place
students@ubuntu:~$ sudo groupadd wireshark
students@ubuntu:~$ sudo usermod -a -G wireshark students
       students@ubuntu:~$ sudo chgrp wireshark /usr/bin/dumpcap
       students@ubuntu:~$ sudo chmod 750 /usr/bin/dumpcap
       students@ubuntu:~$ sudo setcap cap_net_raw,cap_net_admin=eip /usr/bin/dumpcap
students@ubuntu:~$ sudo getcap /usr/bin/dumpcap
```

Terminal Window Output- 3

7. Restart the Ubuntu

8. In terminal type Wireshark and Wireshark window will be open.,



Wireshark Interface in Ubuntu Linux

13. Experiment/Assignment Evaluation

SR	Parameters	Weight	Excellent	Good	Average	Poor	Not as per requirement
		Scale Factor ->	5	4	3	2	0
1	Technical	25					
	Understanding						
2	Performance /	25					
	Execution						
3	Question	20					
	Answers						
4	Punctuality	20					
5	Presentation	10					
	Total out	of 100>					
	#(to be converted as pe applicable to	∑ (Weight * Scale Factor)/5 =					

References:

- [1] https://www.wireshark.org/docs/wsug_html_chunked/ChapterIntroduction.html
- [2] https://www.wireshark.org/download.html
- [3] http://www.cs.wayne.edu/fengwei/16sp-csc5991/labs/lab1-instruction.pdf

Viva Questions

- 1. What is the use of Packet sniffer?
- 2. What is open source software?
- 3. What are the system requirements for Wireshark?