Experiment 4

Aim:Study Multi Router Traffic Grapher (MRTG) Tool

Theory:

The Multi Router Traffic Grapher (MRTG) is a tool to monitor the traffic load on network links. MRTG generates HTML pages containing PNG images which provide a LIVE visual representation of this traffic.

MRTG Features

Portable

MRTG works on most UNIX platforms and Windows NT.

Perl

MRTG is written in Perl and comes with full source.

Portable SNMP

MRTG Uses a highly portable SNMP implementation written entirely in Perl (thanks to Simon Leinen). There is no need to install any external SNMP package.

SNMPv2c support

MRTG can read the new SNMPv2c 64bit counters. No more counter wrapping.

Reliable Interface Identification

Router interfaces can be identified by IP address, description and ethernet address in addition to the normal interface number.

Constant size Logfiles

MRTG's logfiles do NOT grow thanks to the use of a unique data consolidation algorithm.

Automatic Configuration

MRTG comes with a set of configuration tools which make configuration and setup very simple.

Installation steps link:

Traffic Analysis for enp5s0 -- Lab310A

output:

Traffic Analysis for enp5s0 -- Lab310A

| System:	Lab310A in Sitting on the Dock of the Bay
Maintainer:	Me <me@example.org>
Description:	Realtek-Semiconductor-Co.,-Ltd.-RTL8111/8168/8411-PCI-Express-Gigabit-Ethernet-Controller
ifType:	ethernetCsmacd (6)
ifName:	enp5s0
Max Speed:	12.5 MBytes/s
Ip:	192.168.39.192 (No DNS name)

The statistics were last updated **Tuesday, 10 July 2018 at 15:25**, at which time **'Lab310A'** had been up for **1:28:27**.
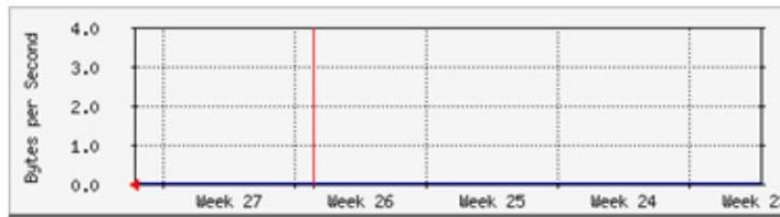
`Daily' Graph (5 Minute Average)
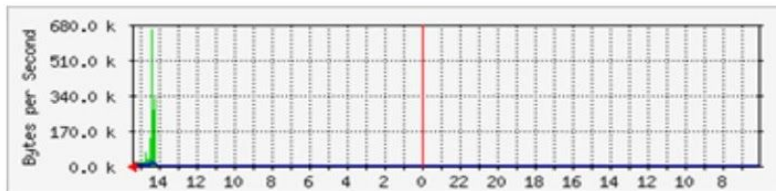
	Max	Average	Current
In	654.1 kB/s (5.2%)	108.5 kB/s (0.9%)	13.5 kB/s (0.1%)
Out	18.1 kB/s (0.1%)	2947.0 B/s (0.0%)	244.0 B/s (0.0%)

`Weekly' Graph (30 Minute Average)
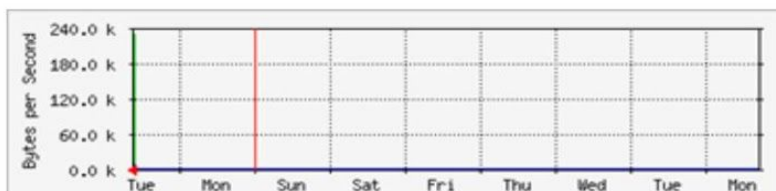
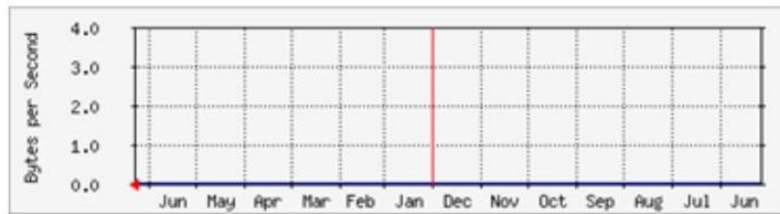|	Max	Average	Current
In	229.5 kB/s (1.8%)	129.1 kB/s (1.0%)	28.8 kB/s (0.2%)
Out	6471.0 B/s (0.1%)	3599.0 B/s (0.0%)	726.0 B/s (0.0%)

`Monthly' Graph (2 Hour Average)

	Max	Average	Current
In	0.0 B/s (0.0%)	0.0 B/s (0.0%)	0.0 B/s (0.0%)
Out	0.0 B/s (0.0%)	0.0 B/s (0.0%)	0.0 B/s (0.0%)

`Yearly' Graph (1 Day Average)

	Max	Average	Current
In	0.0 B/s (0.0%)	0.0 B/s (0.0%)	0.0 B/s (0.0%)
Out	0.0 B/s (0.0%)	0.0 B/s (0.0%)	0.0 B/s (0.0%)

GREEN ### Incoming Traffic in Bytes per Second
BLUE ### Outgoing Traffic in Bytes per Second

MRTG MULTI ROUTER TRAFFIC GRAPHER

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Conclusion: Hence we successfully executed the program of MRTG.
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Date:

Sign: **Grade:**