Exp.No.16 DHARANI K

241901025

To Analyze the different types of servers using webalizer Tool

AIM:

To install Webalizer and analyze server log files to study server activity and traffic patterns.

INTRODUCTION

Webalizer is a web log analysis tool used to generate graphical reports from server log files. It helps in understanding server activity such as hits, visits, requested URLs, and client usage. In this experiment, Webalizer is used to analyze logs from a web server and study how different types of server requests are handled.

PROCEDURE:

1. Update the system using sudo apt update.

2. Install Apache server using sudo apt install apache2 -y.

3. Start Apache with sudo systemetl start apache2.

4. Install Webalizer using sudo apt install webalizer-y.

5. Generate traffic by accessing http://localhost/ or using curl.

6. Create Webalizer output directory:

7. sudo mkdir -p /var/www/html/webalizer

8. Run Webalizer on Apache logs:

sudo webalizer -o /var/www/html/webalizer/var/log/apache2/access.log

9.Open the browser and view the report at: http://localhost/webalizer

Output:

```
scarlet_witch@Captain:~$ sudo apt install webalizer -y
[sudo] password for scarlet_witch:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  geoip-database libaom3 libde265-0 libgd3 libgeoip1t64 libheif-plugin-aomdec libheif-plugin-aomenc
  libheif-plugin-libde265 libheif1 libxpm4
Suggested packages:
  libgd-tools geoip-bin libheif-plugin-x265 libheif-plugin-ffmpegdec libheif-plugin-jpegdec
  libheif-plugin-jpegenc libheif-plugin-j2kdec libheif-plugin-j2kenc libheif-plugin-rav1e
  libheif-plugin-svtenc httpd
The following NEW packages will be installed:
  geoip-database libaom3 libde265-0 libgd3 libgeoip1t64 libheif-plugin-aomdec libheif-plugin-aomenc
  libheif-plugin-libde265 libheif1 libxpm4 webalizer
0 upgraded, 11 newly installed, 0 to remove and 53 not upgraded.
Need to get 6712 kB of archives.
After this operation, 18.2 MB of additional disk space will be used.
```

```
scarlet_witch@Captain:~$ sudo apt install apache2 -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64
  liblua5.4-0 ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser ufw
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap
  libaprutil1t64 liblua5.4-0 ssl-cert
0 upgraded, 10 newly installed, 0 to remove and 53 not upgraded.
Need to get 2086 kB of archives.
```

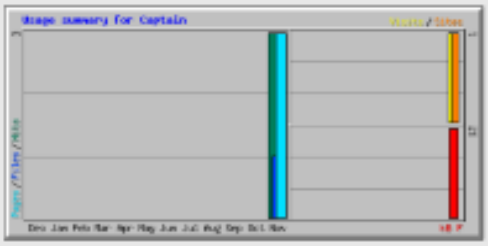
```
scarlet_witch@Captain:~$ sudo systemctl start apache2
scarlet_witch@Captain:~$ curl http://localhost/
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitio
nal.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <!--
    Modified from the Debian original for Ubuntu
    Last updated: 2022-03-22
    See: https://launchpad.net/bugs/1966004
  -->
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
    <title>Apache2 Ubuntu Default Page: It works</title>
    <style type="text/css" media="screen">
  * {
    margin: 0px 0px 0px 0px;
    padding: 0px 0px 0px 0px;
  }

  body, html {
    padding: 3px 3px 3px 3px;

    background-color: #D8DBF2;

    font-family: Ubuntu, Verdana, sans-serif;
```

```
scarlet_witch@Captain:~$ sudo webalizer -o /var/www/html/webalizer /var/log/apache2/access.log
Webalizer V2.23-08 (Linux 6.6.87.2-microsoft-standard-WSL2 x86_64) locale: /var/www/webalizer
Using logfile /var/log/apache2/access.log (clf)
Creating output in /var/www/html/webalizer
Hostname for reports is 'Captain'
History file not found...
Generating report for November 2025
Saving history information...
Generating summary report
4 records (1 ignored) in 1 seconds, 4/sec
```

localhost/webalizer/

Usage statistics for Captain

Summary by Month
Generated 18-Nov-2025 11:53 UTC



Summary by Month										
Month	Daily Avg				Monthly Totals					
	Hits	Files	Pages	Visits	Sites	KBytes	Visits	Pages	Files	Hits
Nov 2025	5	1	5	1	1	12	1	5	1	5
Totals						12	1	5	1	5

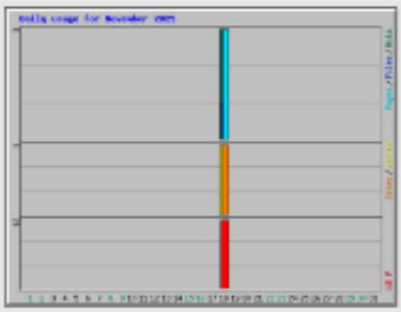
Generated by Webalizer Version 3.52

Usage statistics for Captain

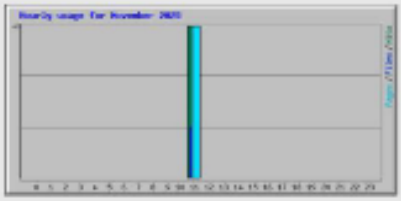
Summary Period: November 2025
Generated 18-Nov-2025 11:53 UTC

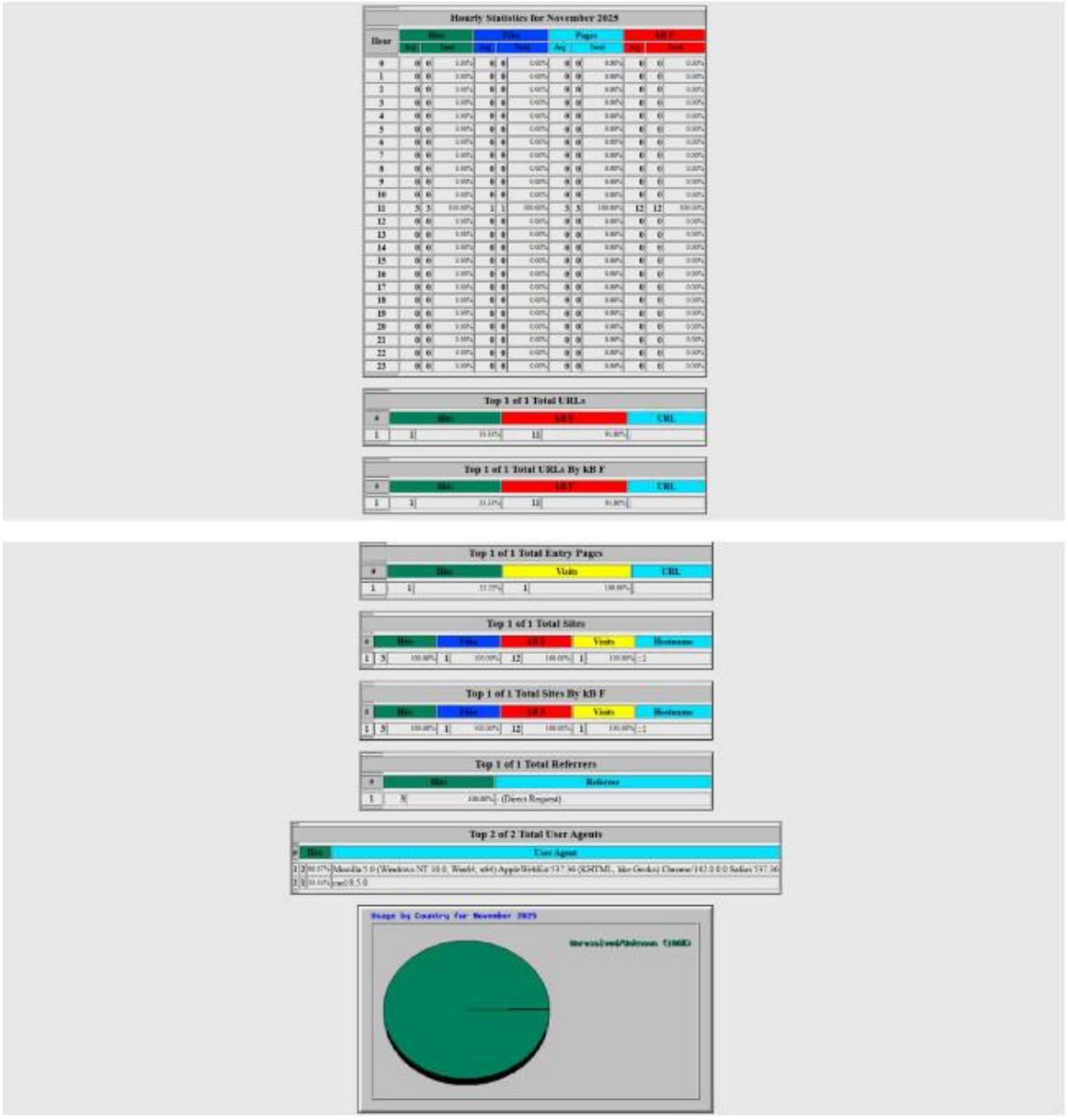
[Daily Statistics] [Hourly Statistics] [URLs] [Sites] [KBytes] [Hosts] [Referrers] [User Agents] [Visits] [Countries]

Monthly Statistics for November 2025		
Total Hits		5
Total Files		1
Total Pages		5
Total Visits		1
Total KB Files		12
Total Unique Sites		1
Total Unique URLs		1
Total Unique Referrers		1
Total Unique User Agents		1
	Avg	Max
Hits per Hour	0	5
Hits per Day	5	5
Files per Day	1	1
Pages per Day	5	5
Sites per Day	1	1
Visits per Day	1	1
KB Files per Day	12	12
Hits by Response Code		
Code 200 - OK	20.0%	1
Code 404 - Not Found	80.0%	4



Daily Statistics for November 2025						
Day	Hits	Files	Pages	Visits	Sites	KBytes
18	5	20.0%	1	100.0%	5	20.0%	1	100.0%	1	100.0%	1	100.0%	12	20.0%





Result:

Webalizer was successfully installed and used to analyze the server logs. The generated reports displayed traffic details, server usage, and request statistics