EX.No:15
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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 systemctl 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.
```
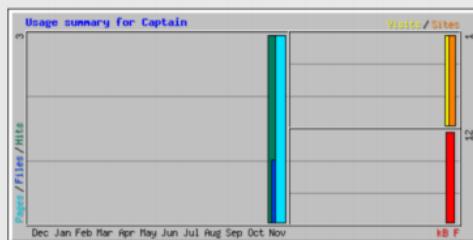
```
scarlet_witch@Captain:~$ sudo systemctl start apache2
scarlet_witch@Captain:~$ curl http://localhost/
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitio
nal.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <!--
    Modified from the 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: #D8DBE2;

    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
```

Usage statistics for Captain

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

Month	Daily Avg						Monthly Totals			
	Hits	Files	Pages	Visits	Sites	kB F	Visits	Pages	Files	Hits
Nov 2025	3	1	3	1	1	12	1	3	1	3
Totals						12	1	3	1	3
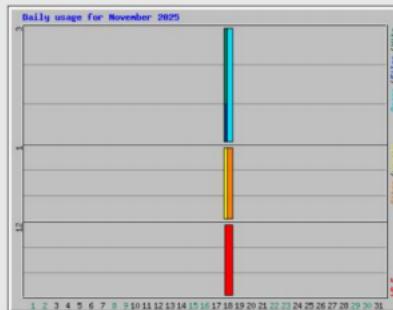
# Usage statistics for Captain

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

[Daily Statistics] [Hourly Statistics] [URLs] [Entry] [Exit] [Sites] [Referrers] [Search] [Agents] [Countries]
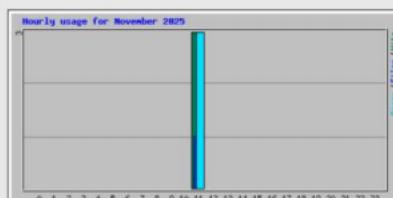
Monthly Statistics for November 2025	
Total Hits	3
Total Files	1
Total Pages	3
Total Visits	1
Total kB Files	12
Total Unique Sites	1
Total Unique URLs	1
Total Unique Referrers	1
Total Unique User Agents	2
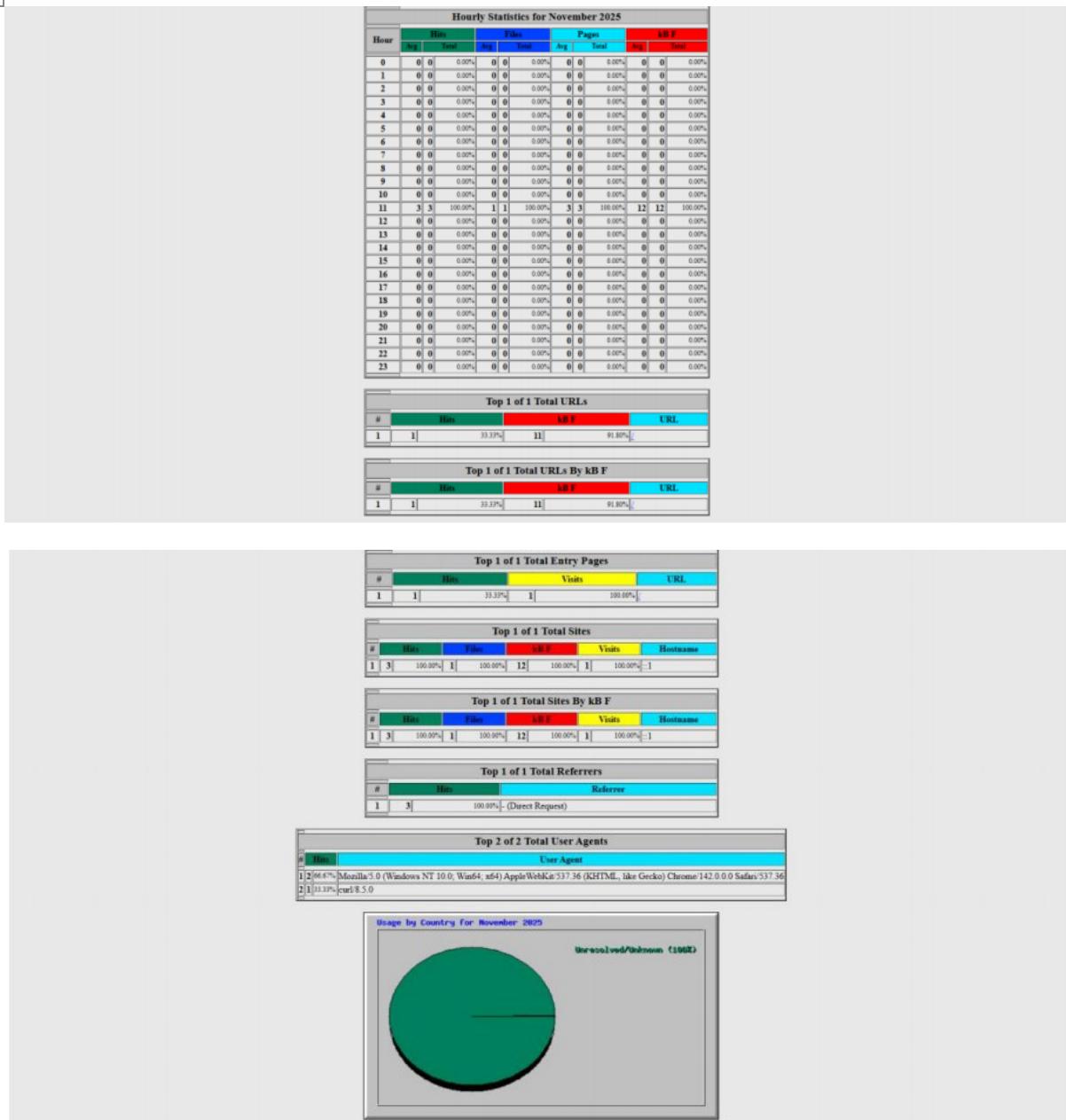
	Avg	Max
Hits per Hour	0	3
Hits per Day	3	3
Files per Day	1	1
Pages per Day	3	3
Sites per Day	1	1
Visits per Day	1	1
kB Files per Day	12	12

Hits by Response Code		
Code 200 - OK	33.33%	1
Code 404 - Not Found	66.67%	2

Daily Statistics for November 2025										
Day	Hits		Files		Pages		Visits		Sites	kB F
18	3	100.00%	1	100.00%	3	100.00%	1	100.00%	1	12	100.00%

Hourly Statistics for November 2025

Hour	Hits Avg	Hits Total	Hits %	Files Avg	Files Total	Files %	Pages Avg	Pages Total	Pages %	kB F Avg	kB F Total	kB F %
0	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
1	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
2	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
3	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
4	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
5	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
6	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
7	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
8	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
9	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
10	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
11	3	3	100.00%	1	1	100.00%	3	3	100.00%	12	12	100.00%
12	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
13	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
14	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
15	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
16	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
17	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
18	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
19	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
20	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
21	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
22	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
23	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%

Top 1 of 1 Total URLs

#	Hits		kB F		URL
1	1	33.33%	11	91.80%	/

Top 1 of 1 Total URLs By kB F

#	Hits		kB F		URL
1	1	33.33%	11	91.80%	/

Top 1 of 1 Total Entry Pages

#	Hits		Visits		URL
1	1	33.33%	1	100.00%	/

Top 1 of 1 Total Sites

#	Hits		Files		kB F		Visits		Hostname
1	3	100.00%	1	100.00%	12	100.00%	1	100.00%	::1

Top 1 of 1 Total Sites By kB F

#	Hits		Files		kB F		Visits		Hostname
1	3	100.00%	1	100.00%	12	100.00%	1	100.00%	::1

Top 1 of 1 Total Referrers

#	Hits		Referrer
1	3	100.00%	- (Direct Request)

Top 2 of 2 Total User Agents

#	Hits		User Agent
1	2	66.67%	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36
2	1	33.33%	curl/8.5.0

Usage by Country for November 2025 — Unresolved/Unknown (100%)

RESULT :

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