

Expt.No.15

Dhanalakshmi. C

241901023

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:

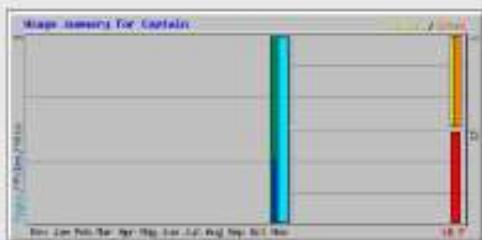
```
scarlet_witch@Captain: $ sudo apt install webalizer -y
[sudo] password for scarlet_witch:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  geoip-database libaaon3 libde265-0 libgd3 libgecipp64 libheif-plugin-aomenc libheif-plugin-aomenc
  libheif-plugin-libde265 libheifl 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-ravie
  libheif-plugin-svtenc httpd
The following NEW packages will be installed:
  geoip-database libaaon3 libde265-0 libgd3 libgecipp64 libheif-plugin-aomenc libheif-plugin-aomenc
  libheif-plugin-libde265 libheifl libxpm4 webalizer
0 upgraded, 11 newly installed, 0 to remove and 53 not upgraded.
Need to get 619 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 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64-
  libltaas5.4-0 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 libaprutil1-dbd-sqlite3 libaprutil1-ldap
  libaprutil1t64 libltaas5.4-0 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 "-//IETF//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.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/1966804
  ...
<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: 0px 0px 0px 0px;
      background-color: #000000;
      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
```

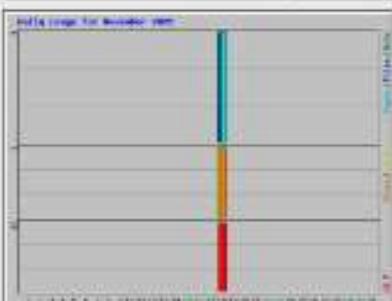


Downloaded from https://academic.oup.com/imrn/article/2020/11/3633/3290642 by guest on 10 August 2020

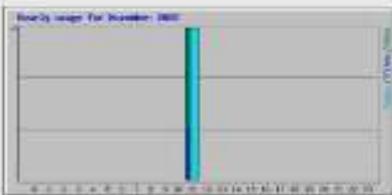
Usage statistics for Captain

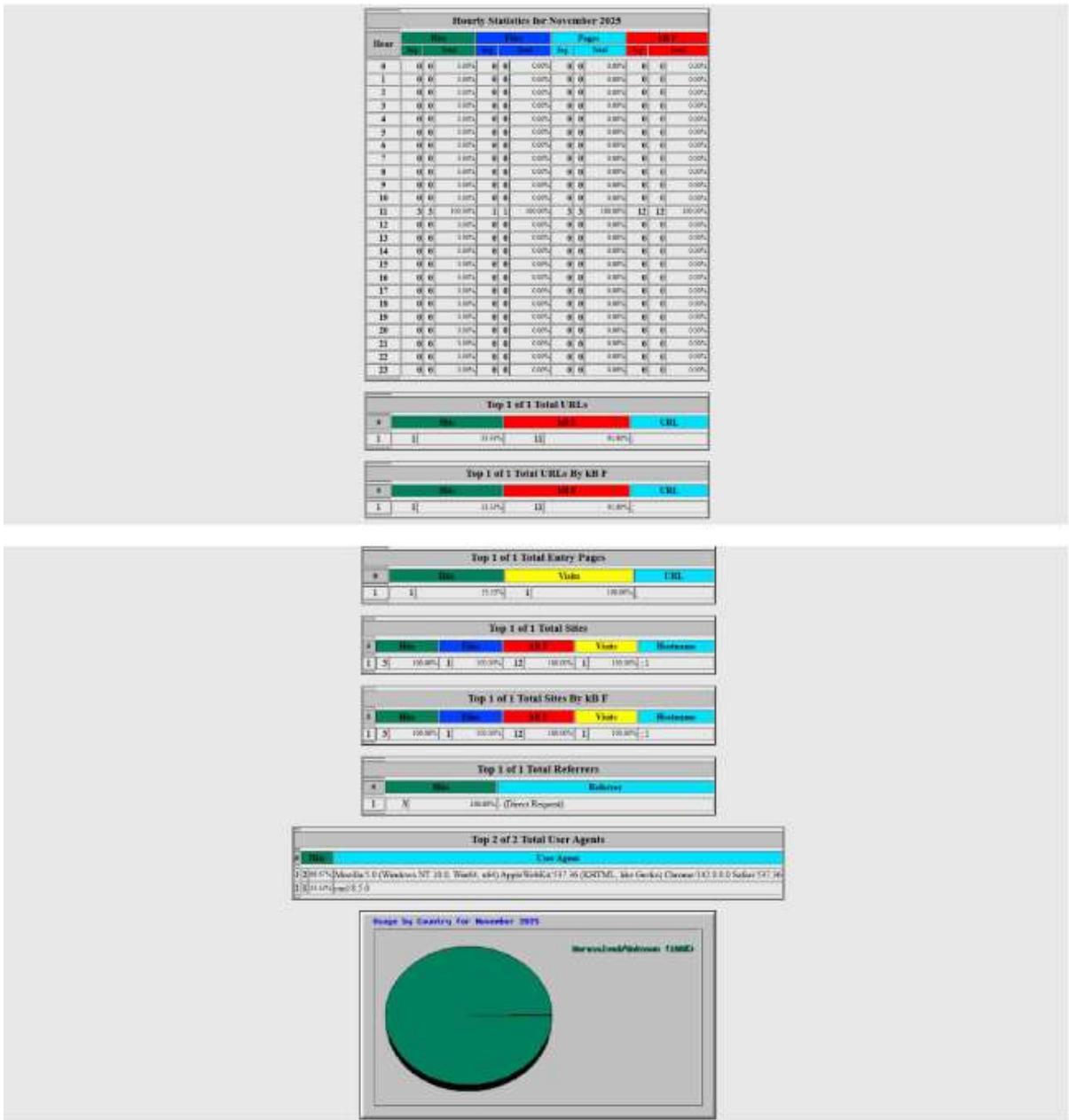
Summary Period November 2013
Case and H-Nr. H11115017F

Eric J. Hansen, Ph.D., Jennifer L. Soto, Ph.D., Brad David, Dabney and David L. Leonard (Coined)



Study Statistics for November 2020





Result:

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