Ex No: 9   ANALYZE DIFFERENT TYPES OF SERVERS USING WEBALIZER

Date:

AIM:

   To analyze the different types of web logs using Webalizer tool.

PROCEDURE:

   Step 1: Download Apache web server using- dnf install httpd

   Step 2: Configure SELINUX to permissive mode

           (open /etc/sysconfig/selinux Put SELINUX=permissive)

   Step 3: Start Apache web server using- systemctl start httpd.service

   Step 4: Create a directory for webalizer using - mkdir /var/www/html/webalizer

   Step 5: Install webalizer using - dnf install webalizer

   Step 6: Copy files from /var/www/usage to /var/www/html

   Step 7: Open /etc/webalizer.conf file and add the following-

           LogFile /var/log/httpd/access_log

           LogType clf

           Hostname localhost

           Output Dir /var/www/html/webalizer

   Step 8: Save it and then run webalizer

   Step 9: Open in web browser http://localhost/webalizer

Webalizer

#Instructions to install, configure and run Webalizer on Fedora

#Enter the root password after typing su

Step 1:Download Apache web server using- dnf install httpd

dnf install httpd

Step 2:Configure SELINUX to permissive mode

           (open /etc/sysconfig/selinux Put SELINUX=permissive)

vi /etc/sysconfig/selinux

Put SELINUX=permissive instead of enforcing

Step 3: Start Apache web server using- systemctl start httpd.service

systemctl enable httpd.service

systemctl start httpd.service

Step 4: Create a directory for webalizer using - mkdir /var/www/html/webalizer

mkdir /var/www/html/webalizer

Step 5: Install webalizer using - dnf install webalizer

dnf install webalizer

```
File  Edit  View  Search  Terminal  Help
student@fedora:~$ sudo dnf install httpd
[sudo] password for student:
Last metadata expiration check: 0:07:39 ago on Wednesday 09 October 2024 12:04:57 PM.
Package httpd-2.4.62-2.fc39.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
student@fedora:~$ sudo vi /etc/sysconfig/selinux
student@fedora:~$ sudo vi /etc/sysconfig/permissive
student@fedora:~$ sudo systemctl enable httpd.service
student@fedora:~$ sudo systemctl start httpd.service
student@fedora:~$ sudo mkdir /var/www/html/webalizer
mkdir: cannot create directory '/var/www/html/webalizer': File exists
student@fedora:~1$ sudo dnf install webalizer
Last metadata expiration check: 0:12:54 ago on Wednesday 09 October 2024 12:04:57 PM.
Package webalizer-2.23_08-23.fc39.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
```

Step 6: Copy files from /var/www/usage to /var/www/html

cp -r /var/www/usage /var/www/html

```
student@fedora:~1$ cp * /var/www/usage /var/www/html
cp: -r not specified; omitting directory 'Desktop'
cp: -r not specified; omitting directory 'Documents'
cp: -r not specified; omitting directory 'Downloads'
cp: -r not specified; omitting directory 'Music'
cp: -r not specified; omitting directory 'Pictures'
cp: -r not specified; omitting directory 'Public'
cp: -r not specified; omitting directory 'Templates'
cp: -r not specified; omitting directory 'Videos'
cp: -r not specified; omitting directory '/var/www/usage'
student@fedora:~1$ 
```

Step 7: Open /etc/webalizer.conf file and add the following-

vi /etc/webalizer.conf

#add the following lines

    LogFile /var/log/httpd/access_log   #This is enabled in newer versions of fedora

LogType clf

Hostname localhost   #For this one you can remove comment denoted by '#'

OutputDir /var/www/html/webalizer

Step 8: Save it and then run webalizer

```
student@fedora:~1$ sudo vi /etc/webalizer.conf
student@fedora:~$ sudo webalizer
```

Step 9: Open in web browser   http://localhost/webalizer

Open in browser   http://localhost/webalizer

Click Oct.2023 link to get the report for this month

OUTPUT:

Monthly statistics

Month	Daily Avg				Monthly Totals					
	Hits	Files	Pages	Visits	Sites	KBytes	Visits	Pages	Files	Hits
Oct 2024	5	4	3	0	1	30	2	10	13	17
Totals						30	2	10	13	17
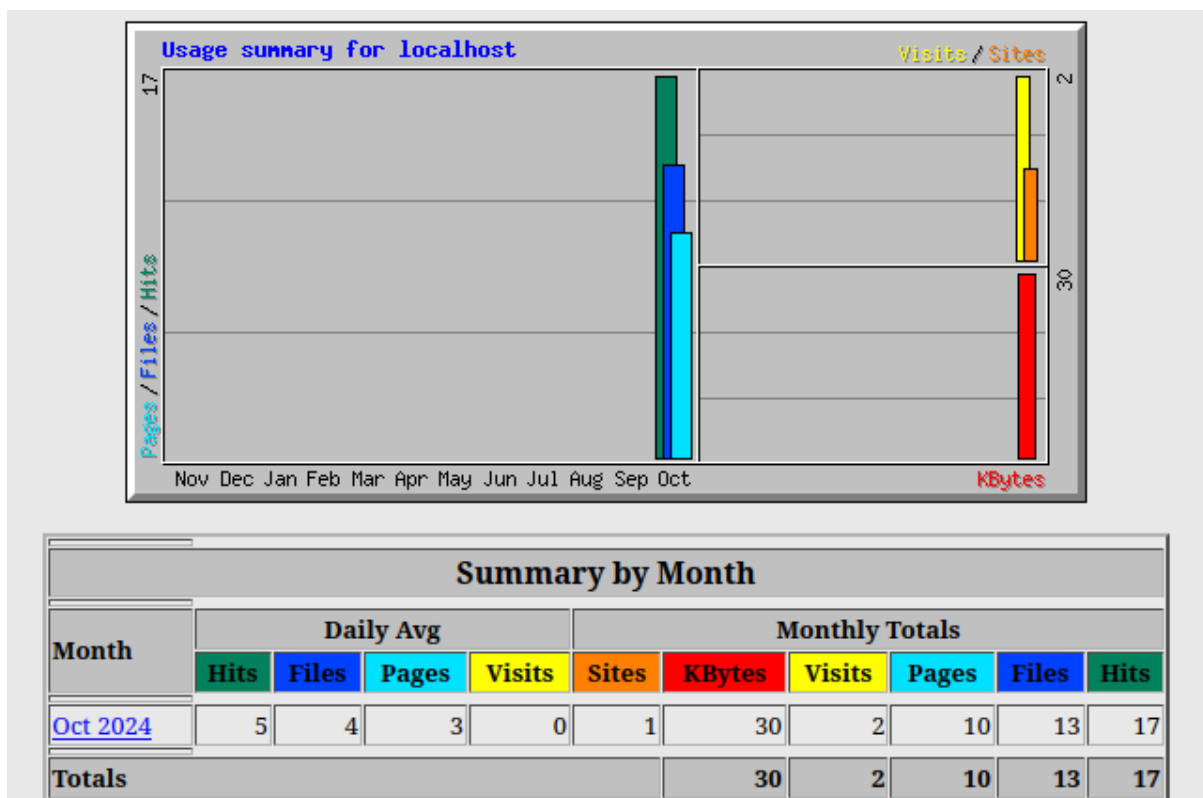
Monthly Statistics for October 2024

Total Hits	17
Total Files	13
Total Pages	10
Total Visits	2
Total KBytes	30
Total Unique Sites	1
Total Unique URLs	5
Total Unique Referrers	3
Total Unique User Agents	1

	Avg	Max
Hits per Hour	0	17
Hits per Day	5	9
Files per Day	4	8
Pages per Day	3	7
Sites per Day	0	1
Visits per Day	0	1
KBytes per Day	10	17

Hits by Response Code		
Code 200 - OK	76.47%	13
Code 301 - Moved Permanently	5.88%	1
Code 403 - Forbidden	11.76%	2
Code 404 - Not Found	5.88%	1

Hosts

Hourly usage

Hourly usage for October 2024

CSE(CYBER SECURITY)
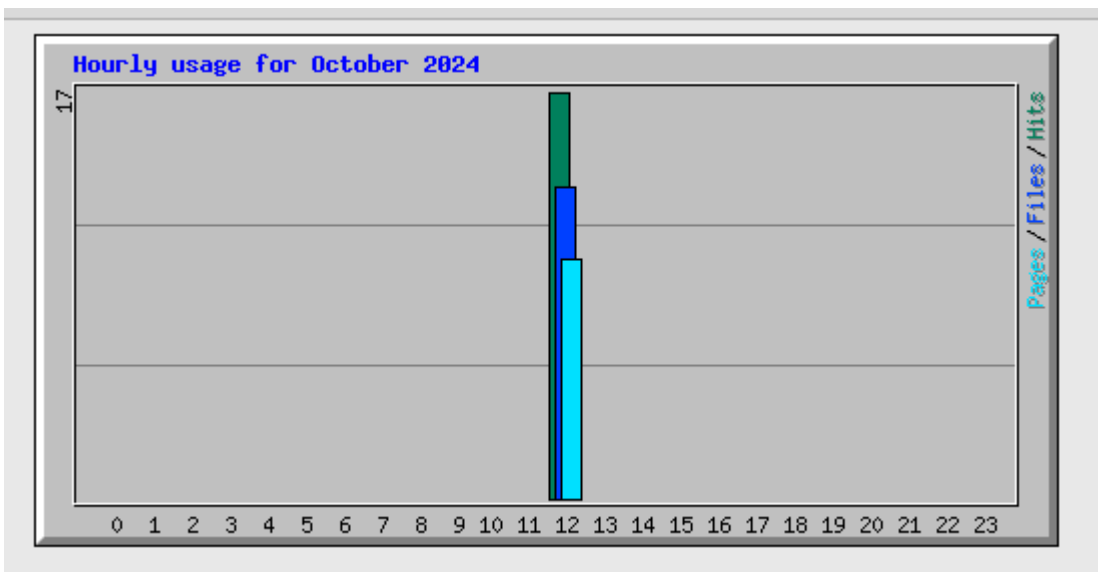
Hourly Statistics for October 2024

Hour	Hits			Files			Pages			KBytes		
	Avg	Total		Avg	Total		Avg	Total		Avg	Total	
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	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
12	5	17	100.00%	4	13	100.00%	3	10	100.00%	10	30	100.00%
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%

Result:

Thus we successfully analyze the different types of web logs using Webalizer tool.