EXPERIMENT: 9
DATE: 09/10/2024

ANALYZE DIFFERENT TYPES OF SERVERS USING WEBALIZER

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

Instructions to install, configure and run Webalizer on Fedora

#Enter the root password after typing su

Su

   1. Download Apache web server using-
              sudo dnf install httpd
   2. Configure SELINUX to permissive mode
              (open /etc/sysconfig/selinux Put SELINUX=permissive)
               sudo vi /etc/sysconfig/selinux
             Put SELINUX=permissive instead of enforcing

   3. Start Apache web server using-
              systemctl start httpd.service
   4. Create a directory for webalizer using -
              mkdir /var/www/html/webalizer
   5. Install webalizer using -
              sudo dnf install webalizer
   6. Copy files from /var/www/usage to /var/www/html

cp * /var/www/usage /var/www/html

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

       sudo vi /etc/webalizer.conf

       #add the following line

       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

8. Save it and then run webalizer

       sudo webalizer

9. Open in web browser
       http://localhost/webalizer
Before running webalizer, restart httpd server by typing

       systemctl restart httpd.service

```
student@fedora:~$ dnf install httpd
Error: This command has to be run with superuser privileges (under the root user on most systems).
student@fedora:~1$ sudo dnf install httpd
[sudo] password for student:
Last metadata expiration check: 0:39:20 ago on Monday 07 October 2024 12:22:23 PM.
Package httpd-2.4.62-2.fc39.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
student@fedora:~$ vi /etc/sysconfig/selinux
student@fedora:~$ sudo vi /etc/sysconfig/selinux
student@fedora:~$ systemctl enable httpd.service
student@fedora:~$ systemctl start httpd.service
student@fedora:~$ mkdir /var/www/html/webalizer
mkdir: cannot create directory '/var/www/html/webalizer': File exists
student@fedora:~1$ dnf install webalizer
Error: This command has to be run with superuser privileges (under the root user on most systems).
student@fedora:~1$ sudo dnf install webalizer
Last metadata expiration check: 0:41:58 ago on Monday 07 October 2024 12:22:23 PM.
Package webalizer-2.23_08-23.fc39.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
student@fedora:~$ sudo vi /etc/webalizer.conf
student@fedora:~$ webalizer
Error: Can't open log file /var/log/httpd/access_log
student@fedora:~1$ sudo webalizer
```
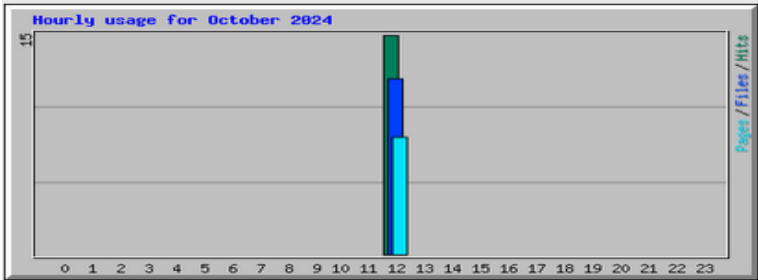
OUTPUT:

Monthly statistics

Usage Statistics for localhost

Summary by Month
Generated 07-Oct-2024 12:47 IST
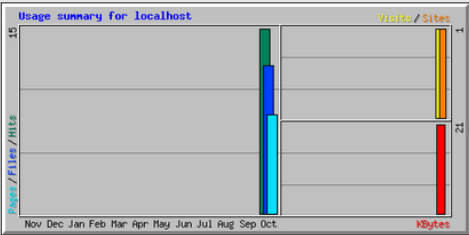
	Summary by Month										
Month	**Daily Avg**					**Monthly Totals**					
	Hits	**Files**	**Pages**	**Visits**	**Sites**	**KBytes**	**Visits**	**Pages**	**Files**	**Hits**	
Oct 2024	15	12	8	1	1	21	1	8	12	15	
Totals						21	1	8	12	15	

	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	15	15	100.00%	12	12	100.00%	8	8	100.00%	21	21	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%

Monthly Statistics for October 2024		
Total Hits		15
Total Files		12
Total Pages		8
Total Visits		1
Total KBytes		21
Total Unique Sites		1
Total Unique URLs		5
Total Unique Referrers		3
Total Unique User Agents		1
	Avg	**Max**
Hits per Hour	0	15
Hits per Day	15	15
Files per Day	12	12
Pages per Day	8	8
Sites per Day	1	1
Visits per Day	1	1
KBytes per Day	21	21
Hits by Response Code		
Code 200 - OK	80.00%	12
Code 301 - Moved Permanently	6.67%	1
Code 403 - Forbidden	6.67%	1
Code 404 - Not Found	6.67%	1

RESULT:

Hence,different types of web logs using Webalizer tool have been analyzed.