

EXP NO:9**DATE:10/10/24****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`

WEBALIZER:

#Instructions to install, configure and run Webalizer on Fedora

#Enter the root password after typing su

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`

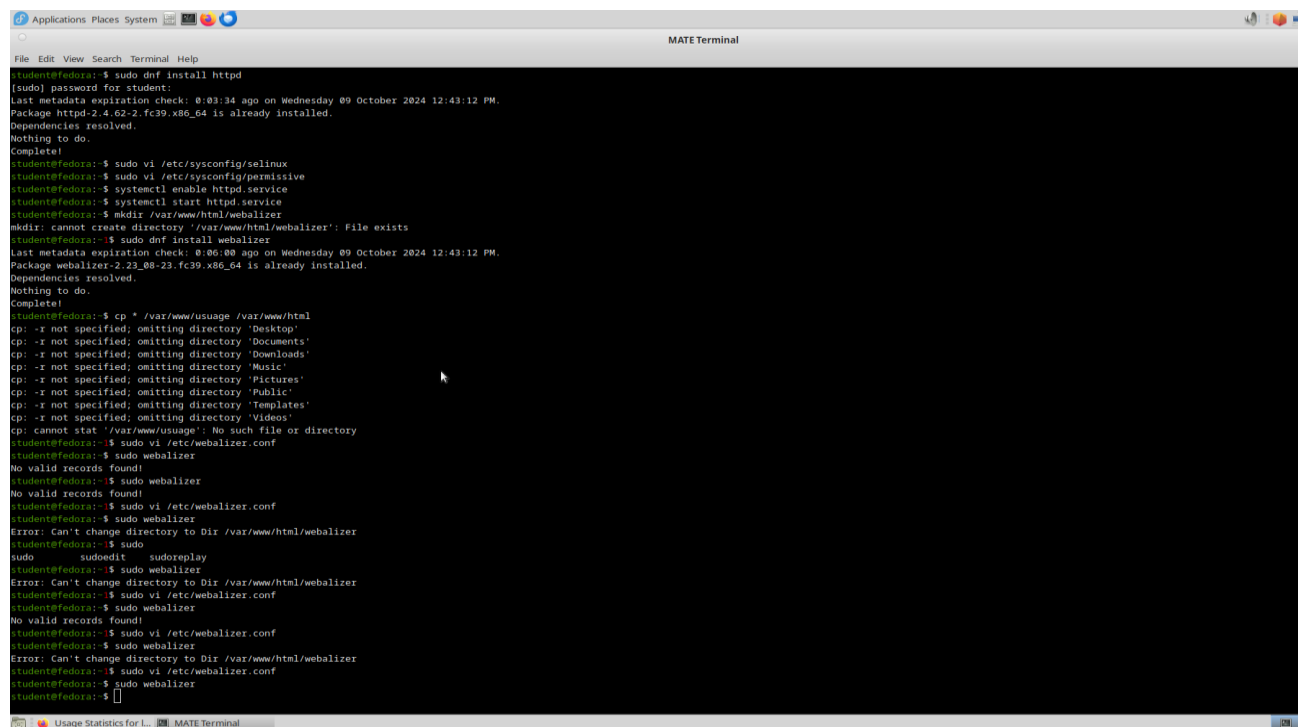
```
systemctl enable httpd.service  
systemctl start httpd.service
```

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

Step 5: Install webalizer using - dnf install webalizer
dnf install webalizer

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

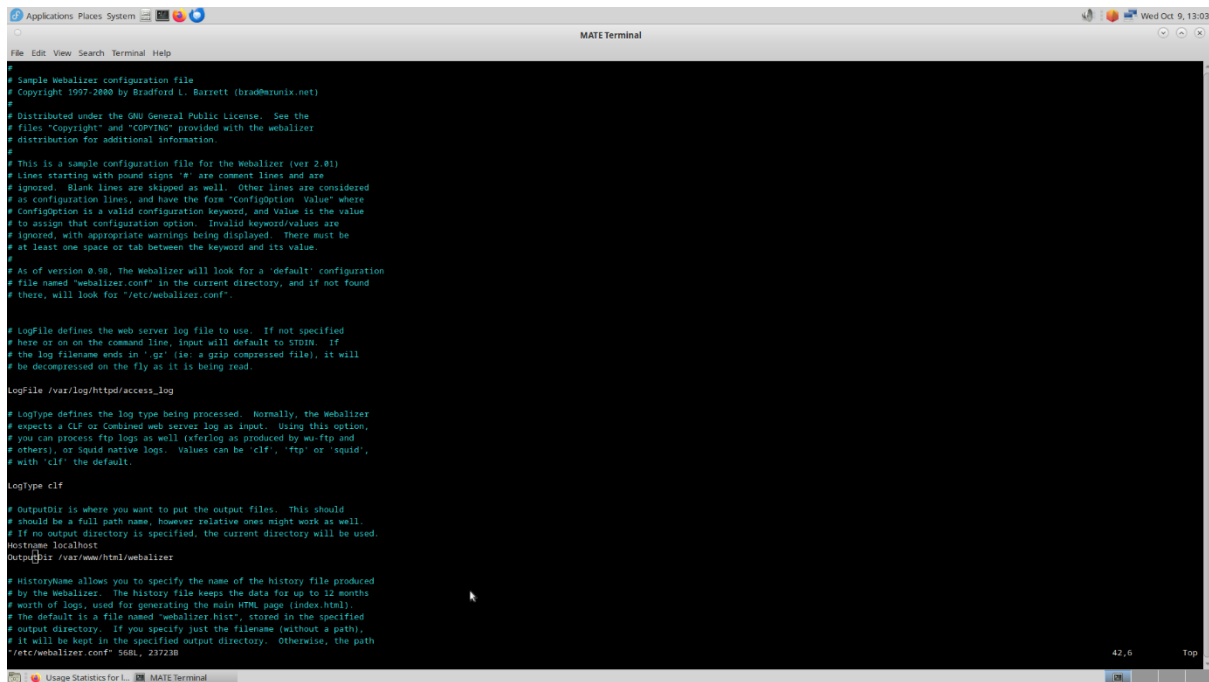
Step 7: Open /etc/webalizer.conf file and add the following-
vi /etc/webalizer.conf



```
student@fedora:~$ sudo dnf install httpd  
(sudo) password for student:  
Last metadata expiration check: 0:03:34 ago on Wednesday 09 October 2024 12:43:12 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:~$ 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:~$ sudo dnf install webalizer  
Last metadata expiration check: 0:06:00 ago on Wednesday 09 October 2024 12:43:12 PM.  
Package webalizer-2.23_08-23.fc39.x86_64 is already installed.  
Dependencies resolved.  
Nothing to do.  
Complete!  
student@fedora:~$ cp -r /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: cannot stat '/var/www/usage': No such file or directory  
student@fedora:~$ sudo vi /etc/webalizer.conf  
student@fedora:~$ sudo webalizer  
No valid records found!  
student@fedora:~$ sudo webalizer  
No valid records found!  
student@fedora:~$ sudo vi /etc/webalizer.conf  
student@fedora:~$ sudo webalizer  
Error: Can't change directory to Dir /var/www/html/webalizer  
student@fedora:~$ sudo  
sudo          sudoedit    sudoreplay  
student@fedora:~$ sudo webalizer  
Error: Can't change directory to Dir /var/www/html/webalizer  
student@fedora:~$ sudo vi /etc/webalizer.conf  
student@fedora:~$ sudo webalizer  
No valid records found!  
student@fedora:~$ sudo vi /etc/webalizer.conf  
student@fedora:~$ sudo webalizer  
Error: Can't change directory to Dir /var/www/html/webalizer  
student@fedora:~$ sudo vi /etc/webalizer.conf  
student@fedora:~$ sudo webalizer  
student@fedora:~$
```

```
LogFile /var/log/httpd/access_log  
LogType clf  
Hostname localhost  
OutputDir /var/www/html/webalizer
```

Step 8: Save it and then run webalizer
save it and then run Webalizer



```
# Sample Webalizer configuration file
# Copyright 1997-2000 by Bradford L. Barrett (brad@sunix.net)
#
# Distributed under the GNU General Public License. See the
# files "Copyright" and "COPYING" provided with the webalizer
# distribution for additional information.
#
# This is a sample configuration file for the Webalizer (ver 2.01)
# Lines starting with pound signs '#' are comment lines and are
# ignored. Blank lines are skipped as well. Other lines are considered
# as configuration lines, and have the form 'configuration_value' where
# configuration is a valid configuration keyword, and value is the value
# to assign that configuration option. Invalid keyword/values are
# ignored, with appropriate warnings being displayed. There must be
# at least one space or tab between the keyword and its value.
#
# As of version 0.98, The Webalizer will look for a 'default' configuration
# file named 'webalizer.conf' in the current directory, and if not found
# there, will look for "/etc/webalizer.conf".

# logfile defines the web server log file to use. If not specified
# here or on the command line, input will default to stdin. If
# the log filename ends in '.gz' (ie: a gzip compressed file), it will
# be decompressed on the fly as it is being read.

logfile /var/log/httpd/access_log

# Logtype defines the log type being processed. Normally, the webalizer
# expects a CLF or Combined web server log as input. Using this option,
# you can process ftp logs as well (xferlog as produced by wu-ftp and
# others), or squid native logs. Values can be 'clf', 'ftp' or 'squid',
# with 'clf' the default.

logtype clf

# OutputDir is where you want to put the output files. This should
# should be a full path name, however relative ones might work as well.
# If no output directory is specified, the current directory will be used.
Hostname localhost
OutputDir /var/www/html/webalizer

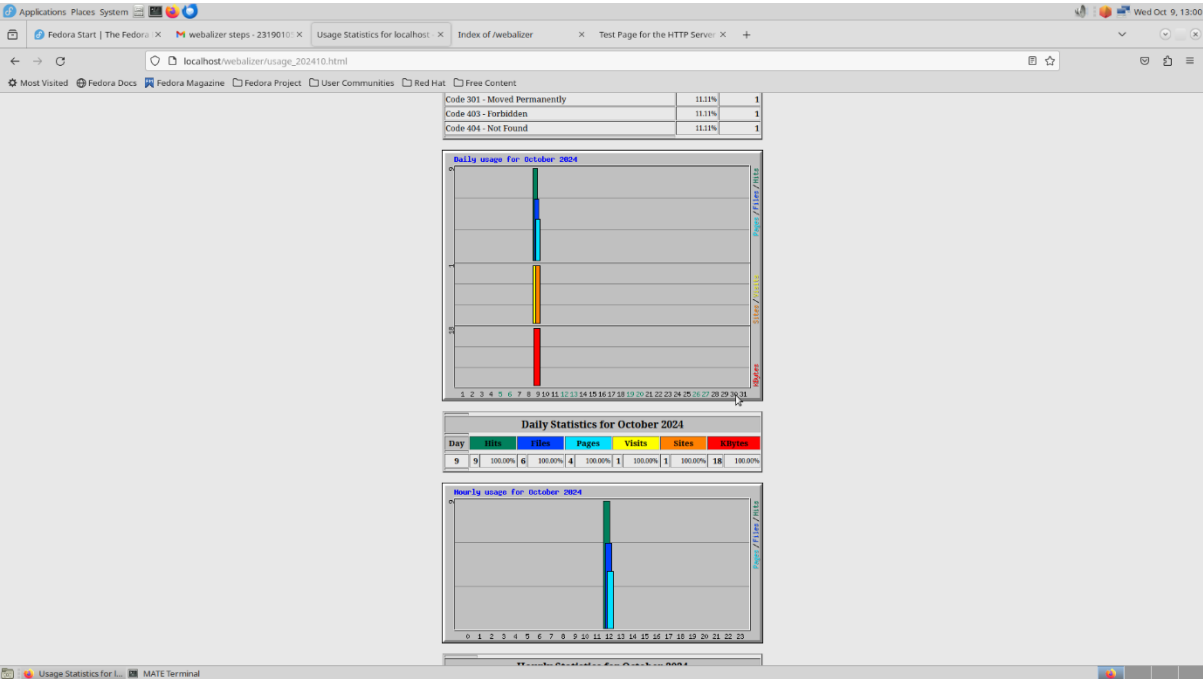
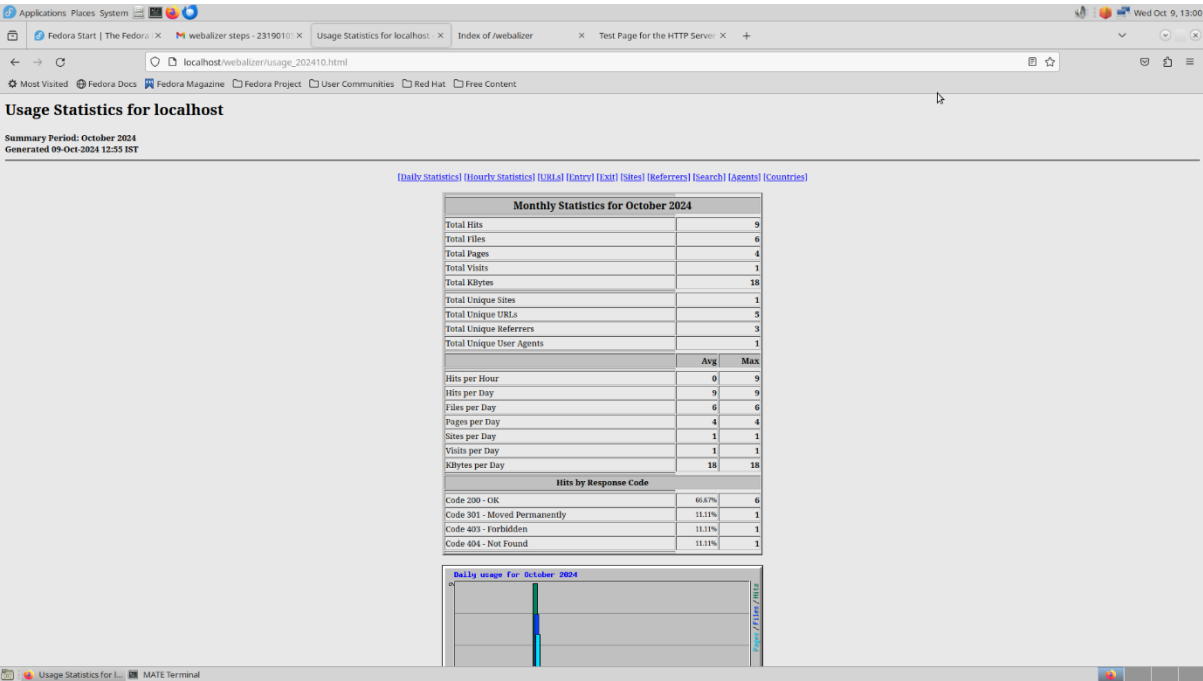
# HistoryName allows you to specify the name of the history file produced
# by the webalizer. The history file keeps the data for up to 12 months
# worth of logs, used for generating the main HTML page (index.html).
# The default is a file named "webalizer.hist", stored in the specified
# output directory. If you specify just the filename (without a path),
# it will be kept in the specified output directory. Otherwise, the path
# "/etc/webalizer.conf" 568L, 2372B
```

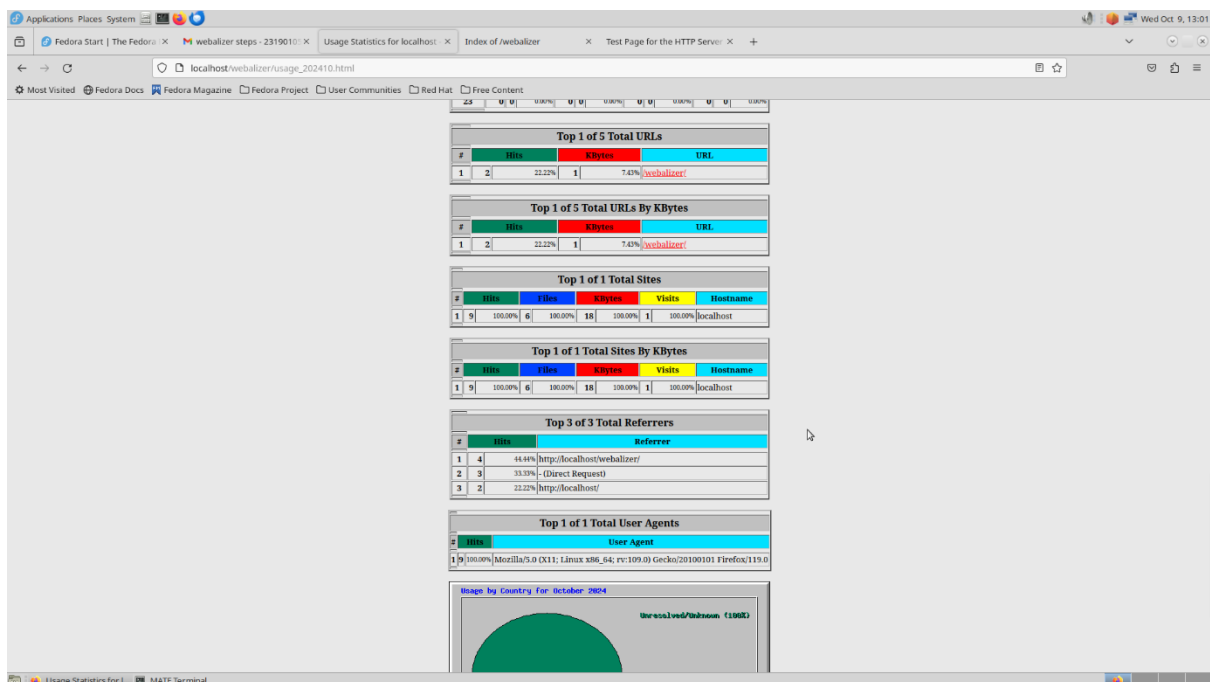
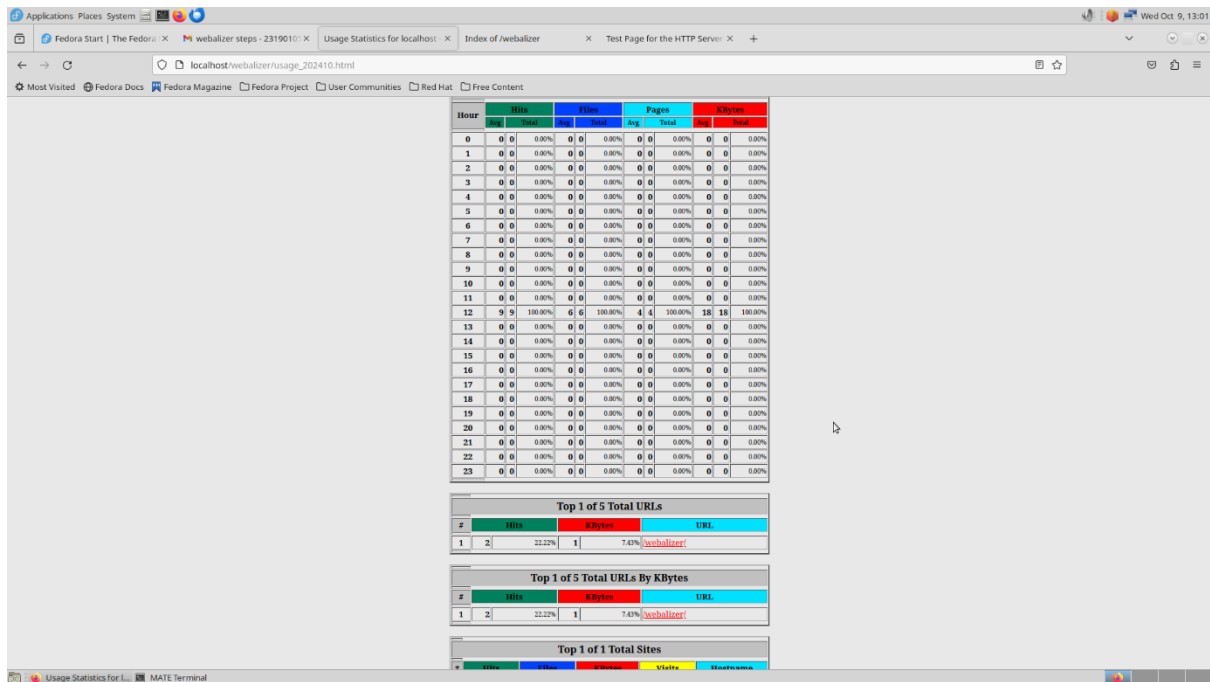
Step 9: Open in web browser <http://localhost/webalizer>

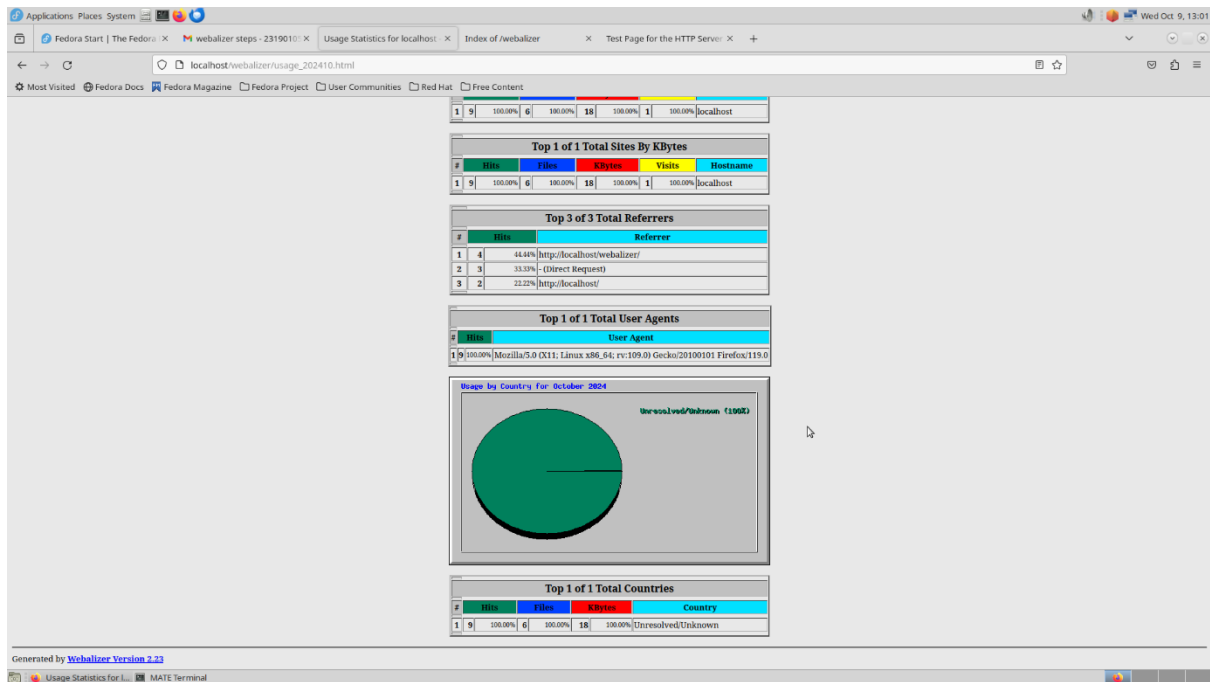
Open in browser <http://localhost/webalizer>
Click Oct.2023 link to get the report for this month

Before running webalizer, restart httpd server by typing-
systemctl restart httpd.service.

OUTPUT:







RESULT:

Apache server using webalizer tools is analyzed.

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