DirBuster

DirBuster is a multi-threaded Java application that brute forces directory and file names on web/application servers. What appears to be a web server in its default configuration is frequently not, and has pages and applications hidden within. DirBuster makes an attempt to locate these.

Installation:

The tool is preinstalled on Kali Linux OS but for this exercise Ubuntu 20.04 machine is used. On any Linux distribution this tool can be installed using following steps:

Step 1: Install apt updates using following command

- sudo apt update

```
seed@VM:-$ sudo apt update
Hit:1 https://dl.google.com/linux/chrome/deb stable InRelease
Hit:2 http://us.archive.ubuntu.com/ubuntu jammy InRelease
Get:3 http://us.archive.ubuntu.com/ubuntu jammy-updates InRelease [114 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://us.archive.ubuntu.com/ubuntu jammy-backports InRelease [99.8 kB]
Get:6 http://us.archive.ubuntu.com/ubuntu jammy-backports InRelease [99.8 kB]
Get:7 http://security.ubuntu.com/ubuntu jammy-updates/main amd64 DEP-11 Metadata [11.4 kB]
Get:8 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [509 kB]
Get:9 http://security.ubuntu.com/ubuntu jammy-updates/main amd64 DEP-11 Metadata [10.1 kB]
Get:10 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 CBP-11 Metadata [10.1 kB]
Get:11 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 DEP-11 Metadata [7,368 B]
Get:12 http://us.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 DEP-11 Metadata [7,368 B]
Get:13 http://us.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 DEP-11 Metadata [141 kB]
Get:15 http://us.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 DEP-11 Metadata [940 B]
Get:15 http://us.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 DEP-11 Metadata [940 B]
Get:16 http://us.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 DEP-11 Metadata [12.5 kB]
Get:18 http://us.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 DEP-11 Metadata [12.5 kB]
Get:19 http://us.archive.ubuntu.com/ubuntu jammy-b
```

Step 2: After updating the packages, next step is to install Git using following command

sudo apt install git

```
seed@VM:-$ sudo apt install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
    git-man liberror-perl
Suggested packages:
    git-daemon-run | git-daemon-sysvinit git-doc git-email git-gui gitk gitweb git-cvs git-mediawiki git-svn
The following NEW packages will be installed:
    git git-man liberror-perl
0 upgraded, 3 newly installed, 0 to remove and 0 not upgraded.
Need to get 4,110 kB of archives.
After this operation, 20.9 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://us.archive.ubuntu.com/ubuntu jammy/main amd64 liberror-perl all 0.17029-1 [26.5 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 git-man all 1:2.34.1-1ubuntu1.4 [952 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 git amd64 1:2.34.1-1ubuntu1.4 [3,131 kB]
```

Step 3: Next step is to check and installed latest Java version

- sudo apt install default-jre

Step 4: After installing the prerequisites, next step is to clone DirBuster git repository and move it to opt directory which is done using following commands:

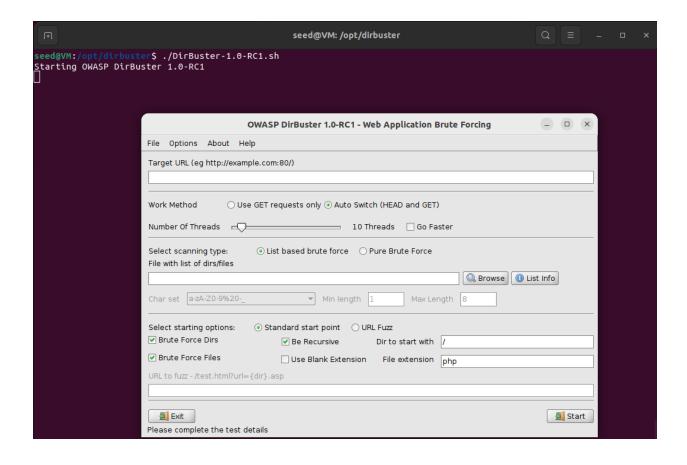
- git clone https://gitlab.com/kalilinux/packages/dirbuster.git

```
seed@VM:~$
git clone https://gitlab.com/kalilinux/packages/dirbuster.git
Cloning into 'dirbuster'...
remote: Enumerating objects: 170, done.
remote: Counting objects: 100% (40/40), done.
remote: Compressing objects: 100% (19/19), done.
remote: Total 170 (delta 23), reused 34 (delta 21), pack-reused 130
Receiving objects: 100% (170/170), 4.75 MiB | 20.28 MiB/s, done.
Resolving deltas: 100% (70/70), done.
seed@VM:~$
```

- sudo mv dirbuster /opt

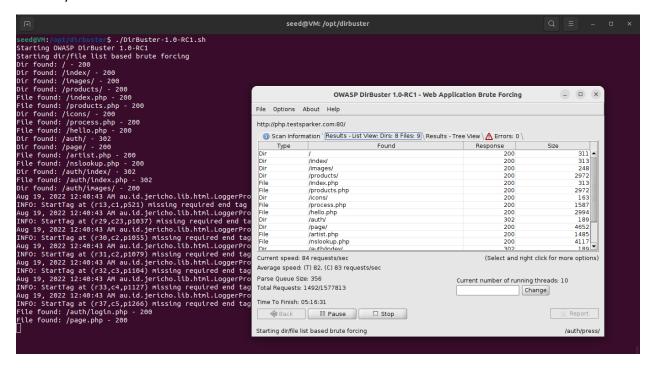
Step 5: After running above command, it is possible to run the tool using following command and various options within in it can be toggled using GUI as shown below:

./DirBuster-1.0-RC1.sh



Execution:

After installing the tool, for this guide the tool will be run against following demo vulnerable website to bruteforce and identify hidden directories as shown in below screenshot using default available directory list available within the tool:



As observed, the tool is successfully bruteforce the directories available within the vulnerable web application. Like this example, this tool can be used in actual ethical penetration test to perform scan against the target domain to identify and find if any sensitive information is exposed by traversing through directories.