

# Lab 4: Perform Website Footprinting

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## Lab Scenario

As a professional ethical hacker, you should be able to extract a variety of information about the target organization from its website; by performing website footprinting, you can extract important information related to the target organization's website such as the software used and the version, operating system details, filenames, paths, database field names, contact details, CMS details, the technology used to build the website, scripting platform, etc. Using this information, you can further plan to launch advanced attacks on the target organization.

## Lab Objectives

- Gather information about a target website using ping command line utility
- Gather information about a target website using Central Ops
- Extract a company's data using Web Data Extractor
- Mirror the target website using HTTrack Web Site Copier
- Gather a wordlist from the target website using CeWL

## Overview of Website Footprinting

Website footprinting is a technique used to collect information regarding the target organization's website. Website footprinting can provide sensitive information associated with the website such as registered names and addresses of the domain owner, domain names, host of the sites, OS details, IP details, registrar details, emails, filenames, etc.

## Task 1: Gather Information About a Target Website using Ping Command Line Utility

Ping is a network administration utility used to test the reachability of a host on an IP network and measure the round-trip time for messages sent from the originating host to a destination computer. The ping command sends an ICMP echo request to the target host and waits for an ICMP response. During this request-response process, ping measures the time from transmission to reception, known as round-trip time, and records any loss of packets. The ping command assists in obtaining domain information and the IP address of the target website.

1.  Click **Windows 10** to switch to the **Windows 10** machine.
2.  Open the **Command Prompt** window. Type **ping www.certifiedhacker.com** and press **Enter** to find its IP address. The displayed response should be similar to the one shown in the screenshot.

```
ca: Command Prompt
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Admin>ping www.certifiedhacker.com

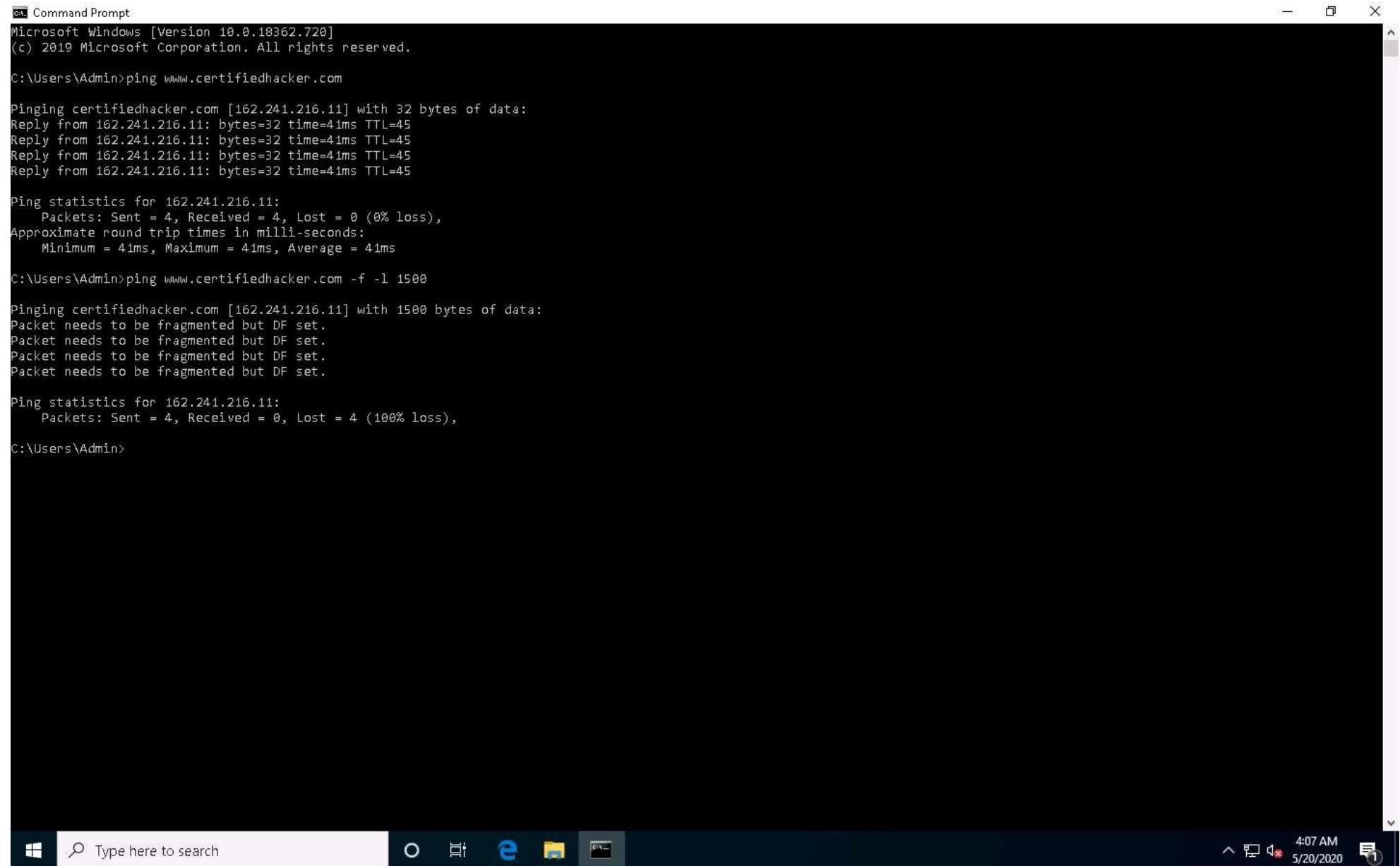
Pinging certifiedhacker.com [162.241.216.11] with 32 bytes of data:
Reply from 162.241.216.11: bytes=32 time=41ms TTL=45

Ping statistics for 162.241.216.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 41ms, Maximum = 41ms, Average = 41ms

C:\Users\Admin>
```

3.  Note the target domain's IP address in the result above (here, **162.241.216.11**). You also obtain information on Ping Statistics such as packets sent, packets received, packets lost, and approximate round-trip time.

4.  In the **Command Prompt** window, type **ping www.certifiedhacker.com -f -l 1500** and press **Enter**.



The screenshot shows a Windows Command Prompt window titled "Command Prompt". The window displays the following output:

```
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Admin>ping www.certifiedhacker.com

Pinging certifiedhacker.com [162.241.216.11] with 32 bytes of data:
Reply from 162.241.216.11: bytes=32 time=41ms TTL=45

Ping statistics for 162.241.216.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 41ms, Maximum = 41ms, Average = 41ms

C:\Users\Admin>ping www.certifiedhacker.com -f -l 1500

Pinging certifiedhacker.com [162.241.216.11] with 1500 bytes of data:
Packet needs to be fragmented but DF set.

Ping statistics for 162.241.216.11:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\Users\Admin>
```

The taskbar at the bottom of the screen includes icons for File Explorer, Edge browser, Task View, and File Explorer again. The system tray shows the date (5/20/2020), time (4:07 AM), battery status, and network connection.

5.  The response, **Packet needs to be fragmented but DF set**, means that the frame is too large to be on the network and needs to be fragmented. The packet was not sent as we used the **-f** switch with the ping command, and the ping command returned this error.
6.  In the **Command Prompt** window, type **ping www.certifiedhacker.com -f -I 1300** and press **Enter**.

```
ca: Command Prompt
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Admin>ping www.certifiedhacker.com

Pinging certifiedhacker.com [162.241.216.11] with 32 bytes of data:
Reply from 162.241.216.11: bytes=32 time=41ms TTL=45

Ping statistics for 162.241.216.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 41ms, Maximum = 41ms, Average = 41ms

C:\Users\Admin>ping www.certifiedhacker.com -f -l 1500

Pinging certifiedhacker.com [162.241.216.11] with 1500 bytes of data:
Packet needs to be fragmented but DF set.

Ping statistics for 162.241.216.11:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Users\Admin>ping www.certifiedhacker.com -f -l 1300

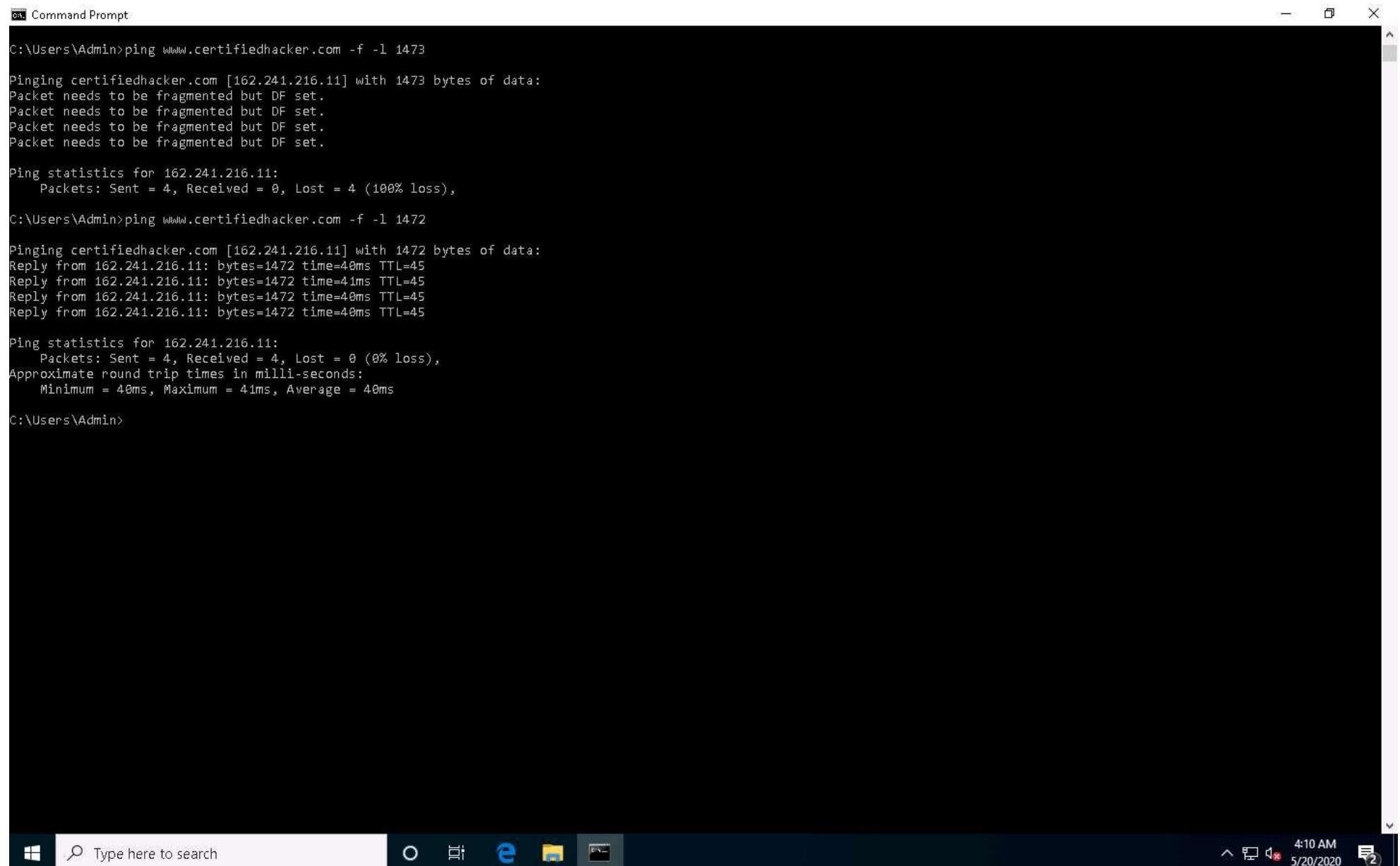
Pinging certifiedhacker.com [162.241.216.11] with 1300 bytes of data:
Reply from 162.241.216.11: bytes=1300 time=42ms TTL=45
Reply from 162.241.216.11: bytes=1300 time=40ms TTL=45
Reply from 162.241.216.11: bytes=1300 time=40ms TTL=45
Reply from 162.241.216.11: bytes=1300 time=40ms TTL=45

Ping statistics for 162.241.216.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 40ms, Maximum = 42ms, Average = 40ms

C:\Users\Admin>
```

7.  Observe that the maximum packet size is less than **1500** bytes and more than **1300** bytes.

8.  Now, try different values until you find the maximum frame size. For instance, **ping www.certifiedhacker.com -f -l 1473** replies with **Packet needs to be fragmented but DF set**, and **ping www.certifiedhacker.com -f -l 1472** replies with a successful ping. It indicates that **1472** bytes are the maximum frame size on this machine's network.



The screenshot shows a Windows Command Prompt window titled "Command Prompt". The window contains the following text output:

```
C:\Users\Admin>ping www.certifiedhacker.com -f -l 1473
Pinging certifiedhacker.com [162.241.216.11] with 1473 bytes of data:
Packet needs to be fragmented but DF set.

Ping statistics for 162.241.216.11:
  Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\Users\Admin>ping www.certifiedhacker.com -f -l 1472
Pinging certifiedhacker.com [162.241.216.11] with 1472 bytes of data:
Reply from 162.241.216.11: bytes=1472 time=40ms TTL=45
Reply from 162.241.216.11: bytes=1472 time=41ms TTL=45
Reply from 162.241.216.11: bytes=1472 time=40ms TTL=45
Reply from 162.241.216.11: bytes=1472 time=40ms TTL=45

Ping statistics for 162.241.216.11:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
  Minimum = 40ms, Maximum = 41ms, Average = 40ms
C:\Users\Admin>
```

The taskbar at the bottom of the screen includes icons for File Explorer, Edge browser, Task View, and a Start button. The system tray shows the date and time as "4:10 AM 5/20/2020" and a notification icon with the number "2".

9.  Now, discover what happens when TTL (Time to Live) expires. Every frame on the network has TTL defined. If TTL reaches 0, the router discards the packet. This mechanism prevents the loss of packets.
10.  In **Command Prompt**, type **ping www.certifiedhacker.com -i 3** and press **Enter**. This option sets the time to live (-i) value as **3**.

The maximum value you can set for TTL is 255.

```
ca: Command Prompt

C:\Users\Admin>ping www.certifiedhacker.com -f -l 1473

Pinging certifiedhacker.com [162.241.216.11] with 1473 bytes of data:
Packet needs to be fragmented but DF set.

Ping statistics for 162.241.216.11:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Users\Admin>ping www.certifiedhacker.com -f -l 1472

Pinging certifiedhacker.com [162.241.216.11] with 1472 bytes of data:
Reply from 162.241.216.11: bytes=1472 time=40ms TTL=45
Reply from 162.241.216.11: bytes=1472 time=41ms TTL=45
Reply from 162.241.216.11: bytes=1472 time=40ms TTL=45
Reply from 162.241.216.11: bytes=1472 time=40ms TTL=45

Ping statistics for 162.241.216.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 40ms, Maximum = 41ms, Average = 40ms

C:\Users\Admin>ping www.certifiedhacker.com -i 3

Pinging certifiedhacker.com [162.241.216.11] with 32 bytes of data:
Reply from 192.168.100.6: TTL expired in transit.

Ping statistics for 162.241.216.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

C:\Users\Admin>
```

11.  Reply from **192.168.100.6: TTL expired in transit** means that the router (192.168.100.6, you will have some other IP address) discarded the frame because its TTL has expired (reached 0).

The IP address 192.168.100.6 may vary in your lab environment.

12.  Minimize the command prompt shown above and launch a new **command prompt**. Type **ping www.certifiedhacker.com -i 2 -n 1** and press **Enter**. Here, we set the TTL value to **2** and the **-n** value to **1** to check the life span of the packet.

**-n** specifies the number of echo requests to be sent to the target.

```
ca: Command Prompt
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Admin>ping www.certifiedhacker.com -i 2 -n 1
Pinging certifiedhacker.com [162.241.216.11] with 32 bytes of data:
Reply from 172.18.0.1: TTL expired in transit.

Ping statistics for 162.241.216.11:
  Packets: Sent = 1, Received = 1, Lost = 0 (0% loss),
C:\Users\Admin>
```

13.  Type **ping www.certifiedhacker.com -i 3 -n 1**. This sets the TTL value to **3**.

```
ca: Command Prompt
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Admin>ping www.certifiedhacker.com -i 2 -n 1
Pinging certifiedhacker.com [162.241.216.11] with 32 bytes of data:
Reply from 172.18.0.1: TTL expired in transit.

Ping statistics for 162.241.216.11:
  Packets: Sent = 1, Received = 1, Lost = 0 (0% loss),

C:\Users\Admin>ping www.certifiedhacker.com -i 3 -n 1
Pinging certifiedhacker.com [162.241.216.11] with 32 bytes of data:
Reply from 192.168.100.6: TTL expired in transit.

Ping statistics for 162.241.216.11:
  Packets: Sent = 1, Received = 1, Lost = 0 (0% loss),

C:\Users\Admin>
```

14.  Observe that there is a reply coming from the IP address **162.241.216.11**, and there is no packet loss.
15.  Now, change the time to live value to **4** by typing, **ping www.certifiedhacker.com -i 4 -n 1** and press **Enter**.

```
ca: Command Prompt
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Admin>ping www.certifiedhacker.com -i 2 -n 1
Pinging certifiedhacker.com [162.241.216.11] with 32 bytes of data:
Reply from 172.18.0.1: TTL expired in transit.

Ping statistics for 162.241.216.11:
  Packets: Sent = 1, Received = 1, Lost = 0 (0% loss),

C:\Users\Admin>ping www.certifiedhacker.com -i 3 -n 1
Pinging certifiedhacker.com [162.241.216.11] with 32 bytes of data:
Reply from 192.168.100.6: TTL expired in transit.

Ping statistics for 162.241.216.11:
  Packets: Sent = 1, Received = 1, Lost = 0 (0% loss),

C:\Users\Admin>ping www.certifiedhacker.com -i 4 -n 1
Pinging certifiedhacker.com [162.241.216.11] with 32 bytes of data:
Reply from 72.15.250.219: TTL expired in transit.

Ping statistics for 162.241.216.11:
  Packets: Sent = 1, Received = 1, Lost = 0 (0% loss),

C:\Users\Admin>
```

16.  Repeat the above step until you reach the IP address for **www.certifiedhacker.com** (in this case, **162.241.216.11**).
17.  Find the hop value by trying different TTL value to reach www.certifiedhacker.com.

18.  On successfully finding the TTL value it will imply that the reply is received from the destination host (**162.241.216.11**).
  19.  This concludes the demonstration of gathering information about a target website using Ping command-line utility (such as the IP address of the target website, hop count to the target, and value of maximum frame size allowed on the target network).
  20.  Close all open windows and document all the acquired information.
- 

## Task 2: Gather Information About a Target Website using Central Ops

CentralOps (centralops.net) is a free online network scanner that investigates domains and IP addresses, DNS records, traceroute, nslookup, whois searches, etc.

1.  Open any web browser (here, **Mozilla Firefox**). In the address bar of the browser place your mouse cursor, click <https://centralops.net> and press **Enter**. The Central Ops website appears, as shown in the screenshot.

The screenshot shows a Firefox browser window displaying the CentralOps.net website. The URL in the address bar is <https://centralops.net/co/>. The page title is "Free online network tools - trac". The header includes the CentralOps.net logo, a sub-header "Advanced online Internet utilities", and a note "a service of :Hexillion". On the right side of the header are links for "Utilities" and "About". A sidebar on the left lists various tools under the heading "Utilities": Domain Dossier, Domain Check, Email Dossier, Browser Mirror, Ping, Traceroute, NsLookup, AutoWhois, and AnalyzePath. The main content area features a section titled "Free online network tools" and a "Tools" section. The "Tools" section contains links for Domain Dossier, Domain Check, Email Dossier, Browser Mirror, Ping, Traceroute, NsLookup, AutoWhois, and AnalyzePath, each with a brief description. In the top right corner of the main content area, there is a user status box showing "user: anonymous [185.254.59.24]", "balance: 49 units", and links for "log in" and "account info". At the bottom of the browser window, a notification bar from Firefox says "It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!" with a "Refresh Firefox..." button. The system tray at the bottom right shows the date and time as "11:12 AM 7/30/2021".

2.  To extract information associated with the target organization website, type the target website's URL (here, [www.certifiedhacker.com](http://www.certifiedhacker.com)) in the **enter a domain or IP address** field, and then click on the **go** button, as shown in the screenshot below.

The screenshot shows a Firefox browser window with the following details:

- Title Bar:** Free online network tools - tracX
- Address Bar:** https://centralops.net/co/
- Page Header:** CentralOps.net Advanced online Internet utilities, a service of :Hexillion
- Page Content:**
  - Free online network tools**
  - Tools**
    - Domain Dossier**: Investigate domains and IP addresses. Get registrant information, DNS records, and more—all in one report.  
Input field: www.certifiedhacker.com, Go button.
    - Domain Check**: See if a domain is available for registration.
    - Email Dossier**: Validate and troubleshoot email addresses.
    - Browser Mirror**: See what your browser reveals about you.
    - Ping**: See if a host is reachable.
    - Traceroute**: Trace the network path from this server to another.
    - NsLookup**: Look up various domain resource records with this version of the classic NsLookup utility.
    - AutoWhois**: Get Whois records automatically for domains worldwide.
    - AnalyzePath**
  - User Information:** user: anonymous [185.254.59.24], balance: 49 units, log in | account info
  - How this site works**: The tools at CentralOps.net are free for everyday, interactive use—no login required. Simply pick a tool on the left and use it.
  - Text at Bottom:** It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!

3.  A search result for **WWW.CERTIFIEDHACKER.COM** containing information such as **Address lookup**, **Domain Whois record**, as shown in the screenshot.

Free online network tools - trac X +

https://centralops.net/co/

**CentralOps.net** Advanced online Internet utilities a service of :Hexillion

Utilities About

**Domain Dossier** Investigate domains and IP addresses

domain or IP address

domain whois record  DNS records  traceroute

network whois record  service scan

user: anonymous [185.254.59.24]  
balance: 48 units  
[log in](#) | [account info](#)

**CentralOps.net**

Do you see Whois records that are missing contact information?  
Read about reduced Whois data due to the GDPR.

**Address lookup**

canonical name [certifiedhacker.com](#).  
aliases [www.certifiedhacker.com](#)  
addresses 162.241.216.11

**Domain Whois record**

Queried whois.internic.net with "dom certifiedhacker.com"...

Domain Name: CERTIFIEDHACKER.COM  
Registry Domain ID: 88849376\_DOMAIN\_COM-VRSN  
Registrar WHOIS Server: whois.networksolutions.com  
Registrar URL: http://networksolutions.com  
Updated Date: 2021-05-30T08:52:04Z  
Creation Date: 2002-07-30T00:32:00Z  
Registry Expiry Date: 2022-07-30T00:32:00Z  
Registrar: Network Solutions, LLC  
Registrar IANA ID: 2  
Registrar Abuse Contact Email: abuse@web.com  
Registrar Abuse Contact Phone: +1.8003337680  
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited  
Name Server: NS1.BLUEHOST.COM

Type here to search 11:25 AM 7/30/2021

4.  Scroll-down to view information such as **Network Whois record** and **DNS records**, as shown in the screenshots.

Free online network tools - trac X +

https://centralops.net/co/

**Central Ops .net** Advanced online Internet utilities a service of :Hexillion

Utilities About

**Network Whois record**

Queried **rwhois.unifiedlayer.com** with "162.241.216.11"...

```
*rwhois V-1.5:000080:00 rwhois.unifiedlayer.com (by Unified Layer, V-1.0.0)
network:Class-Name:network
network:ID: NETBLK-UL.162.240.0.0/15
network:Auth-Area: 162.240.0.0/15
network:Network-Name: UL-162.240.0.0/15
network:IP-Network: 162.240.0.0/15
network:Organization: Unified Layer
network:Tech-Contact: netops@unifiedlayer.com
network:Admin-Contact: netops@unifiedlayer.com
network:Abuse-Contact: abuse@unifiedlayer.com
network:Created: 20121119
network:Updated: 20121119
network:Updated-By: netops@unifiedlayer.com

*ok
```

Queried **whois.arin.net** with "n 162.241.216.11"...

```
NetRange: 162.240.0.0 - 162.241.255.255
CIDR: 162.240.0.0/15
NetName: UNIFIEDLAYER-NETWORK-16
NetHandle: NET-162-240-0-0-1
Parent: NET162 (NET-162-0-0-0-0)
NetType: Direct Allocation
OriginAS: AS46606
Organization: Unified Layer (BLUEH-2)
RegDate: 2013-08-22
Updated: 2013-08-22
Ref: https://rdap.arin.net/registry/ip/162.240.0.0

OrgName: Unified Layer
OrgId: BLUEH-2
Address: 1958 South 950 East
City: Provo
StateProv: UT
PostalCode: 84606
Country: US
RegDate: 2006-08-08
Updated: 2020-01-31
Ref: https://rdap.arin.net/registry/entity/BLUEH-2
```

Type here to search 11:32 AM 7/30/2021

Free online network tools - traceroute

https://centralops.net/co/

**Central Ops .net** Advanced online Internet utilities  
a service of :Hexillion

Utilities    About

**Utilities**

Updated: 2020-01-31  
Ref: https://rdap.arin.net/registry/entity/BLUEH-2

ReferralServer: rwhois://rwhois.unifiedlayer.com:4321

OrgAbuseHandle: NOC2320-ARIN  
OrgAbuseName: Network Operations Center  
OrgAbusePhone: +1-801-765-9400  
OrgAbuseEmail: abuse@bluehost.com  
OrgAbuseRef: https://rdap.arin.net/registry/entity/NOC2320-ARIN

OrgTechHandle: ENO74-ARIN  
OrgTechName: EIG Network Operations  
OrgTechPhone: +1-781-852-3200  
OrgTechEmail: eig-noc@endurance.com  
OrgTechRef: https://rdap.arin.net/registry/entity/ENO74-ARIN

OrgNOCHandle: ENO74-ARIN  
OrgNOCName: EIG Network Operations  
OrgNOCPhone: +1-781-852-3200  
OrgNOCEmail: eig-noc@endurance.com  
OrgNOCRef: https://rdap.arin.net/registry/entity/ENO74-ARIN

**DNS records**

name	class	type	data	time to live
www.certifiedhacker.com	IN	CNAME	certifiedhacker.com	12404s (03:26:44)
certifiedhacker.com	IN	A	162.241.216.11	13882s (03:51:22)
certifiedhacker.com	IN	NS	ns1.bluehost.com	86400s (1.00:00:00)
certifiedhacker.com	IN	NS	ns2.bluehost.com	86400s (1.00:00:00)
11.216.241.162.in-addr.arpa	IN	HINFO	CPU: RFC8482 OS:	3789s (01:03:09)
216.241.162.in-addr.arpa	IN	NS	ns1.unifiedlayer.com	19028s (05:17:08)
216.241.162.in-addr.arpa	IN	NS	ns2.unifiedlayer.com	19028s (05:17:08)

-- end --  
URL for this output | return to CentralOps.net, a service of Hexillion

Type here to search

11:23 AM  
7/30/2021

5.  This concludes the demonstration of gathering information about a target website using the Central Ops online tool.

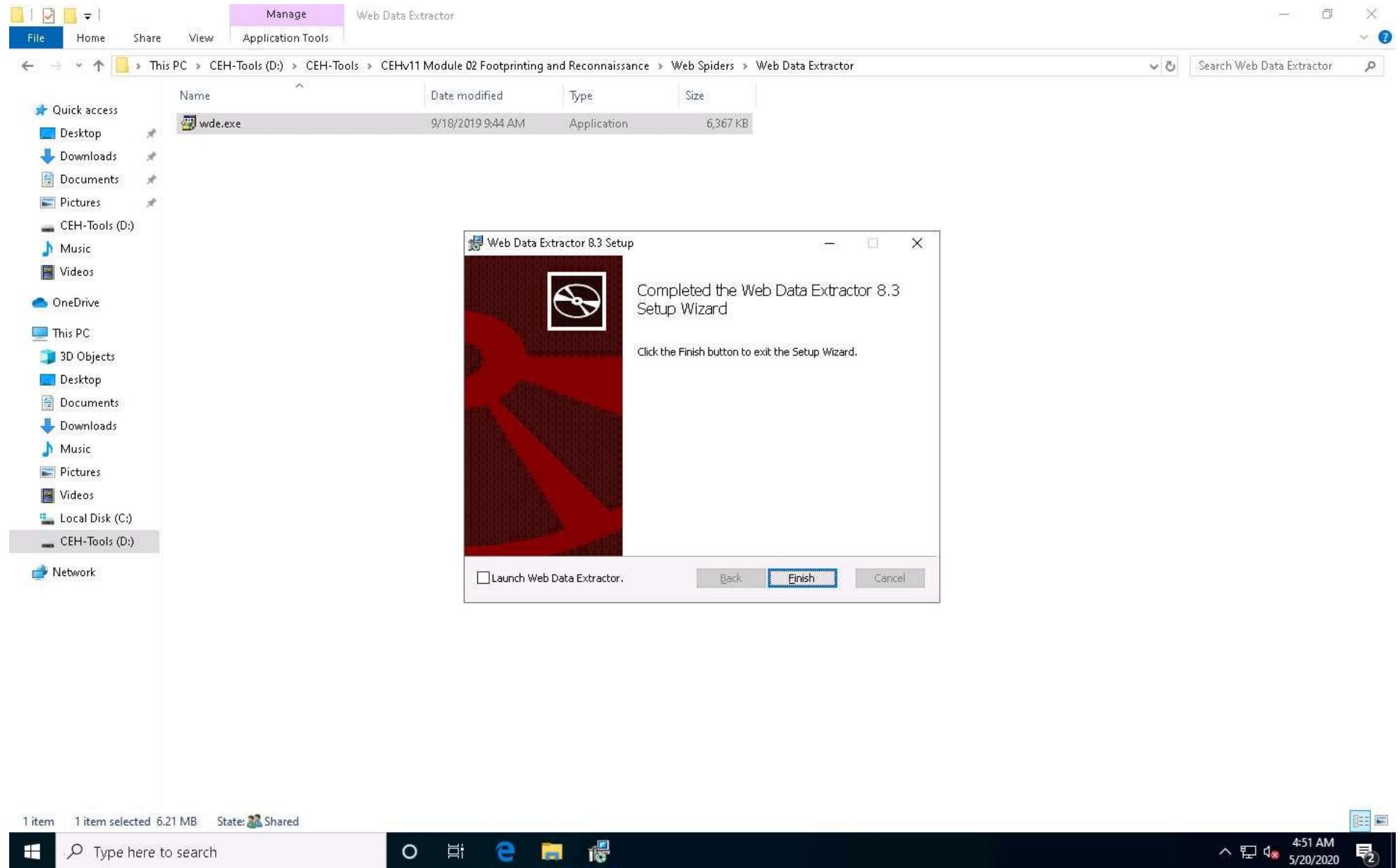
6.  You can also use tools such as **Website Informer** (<https://website.informer.com>), **Burp Suite** (<https://portswigger.net>), **Zaproxy** (<https://www.owasp.org>), etc. to perform website footprinting on a target website.
  7.  Close all open windows and document all the acquired information.
- 

### Task 3: Extract a Company's Data using Web Data Extractor

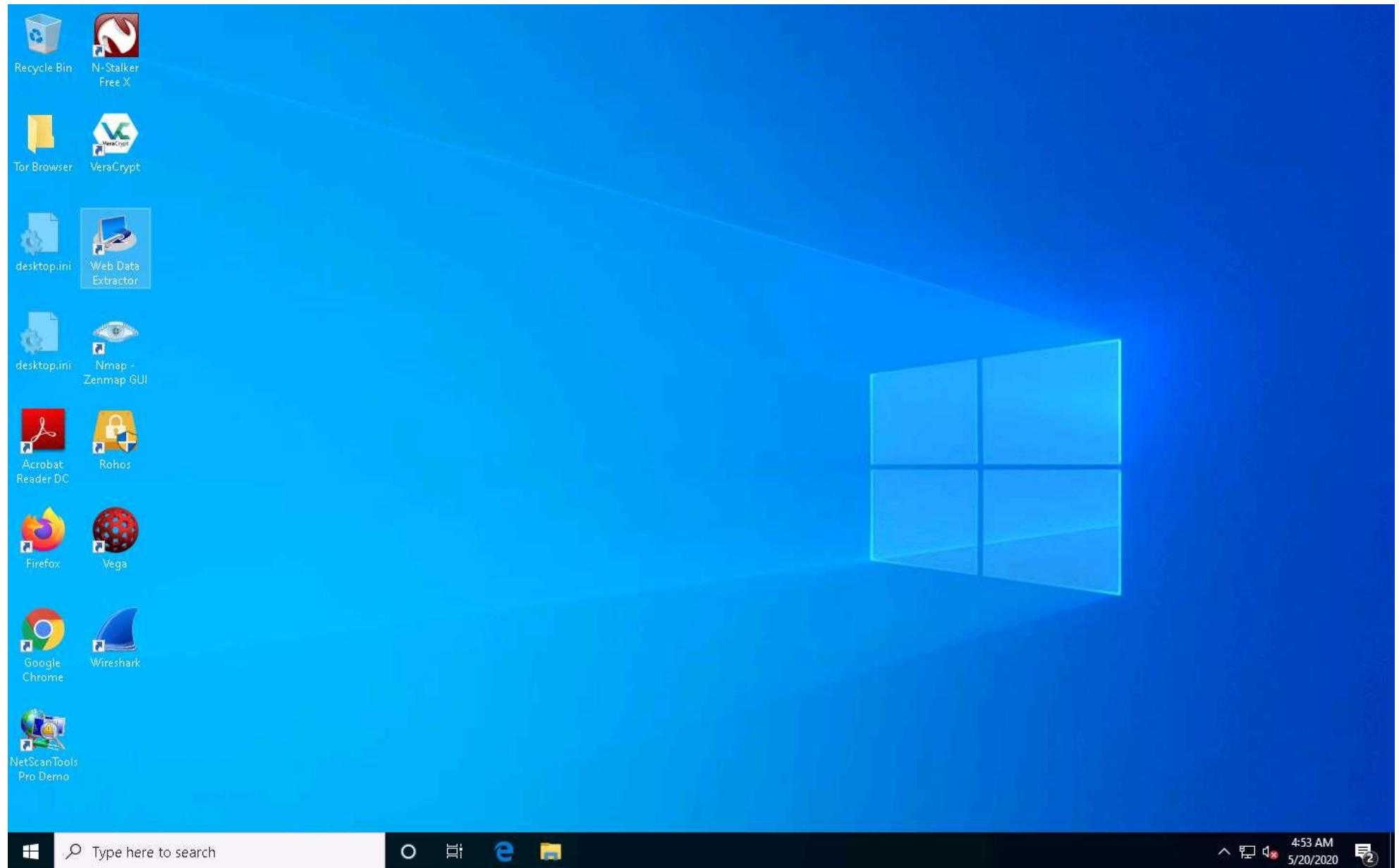
Web data extraction is the process of extracting data from web pages available on the company's website. A company's data such as contact details (email, phone, and fax), URLs, meta tags (title, description, keyword) for website promotion, directories, web research, etc. are important sources of information for an ethical hacker. Web spiders (also known as a web crawler or web robot) such as Web Data Extractor perform automated searches on the target website and extract specified information from the target website.

Here, we will gather the target company's data using the Web Data Extractor tool.

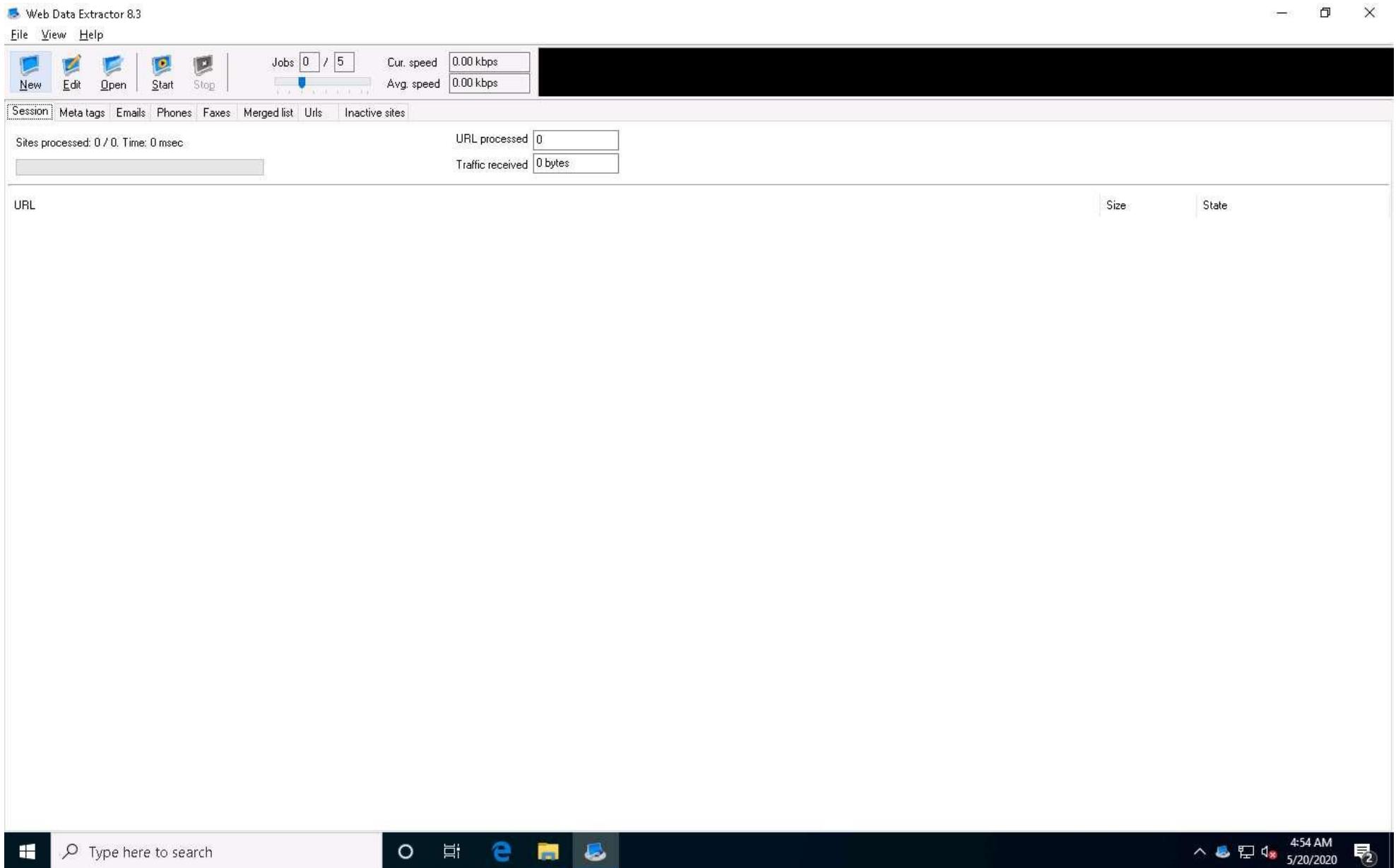
1.  In the **Windows 10** machine, navigate to **D:\CEH-Tools\CEHv11 Module 02 Footprinting and Reconnaissance\Web Spiders\Web Data Extractor** and double-click **wde.exe**.
2.  If the **User Account Control** pop-up appears, click **Yes**.
3.  Follow the wizard steps to install Web Data Extractor and click **Finish**.



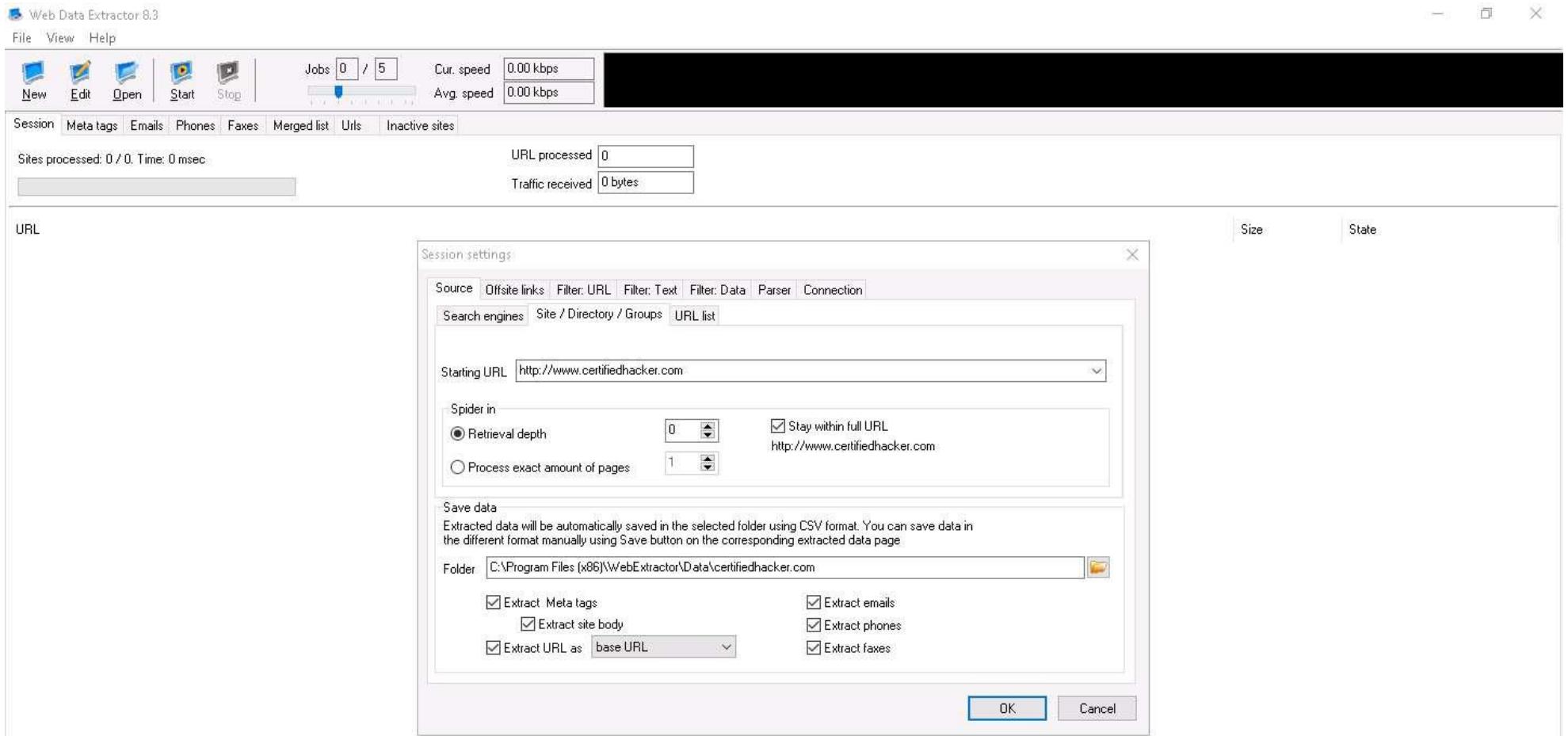
4.  After installation, launch **Web Data Extractor** from **Desktop**.



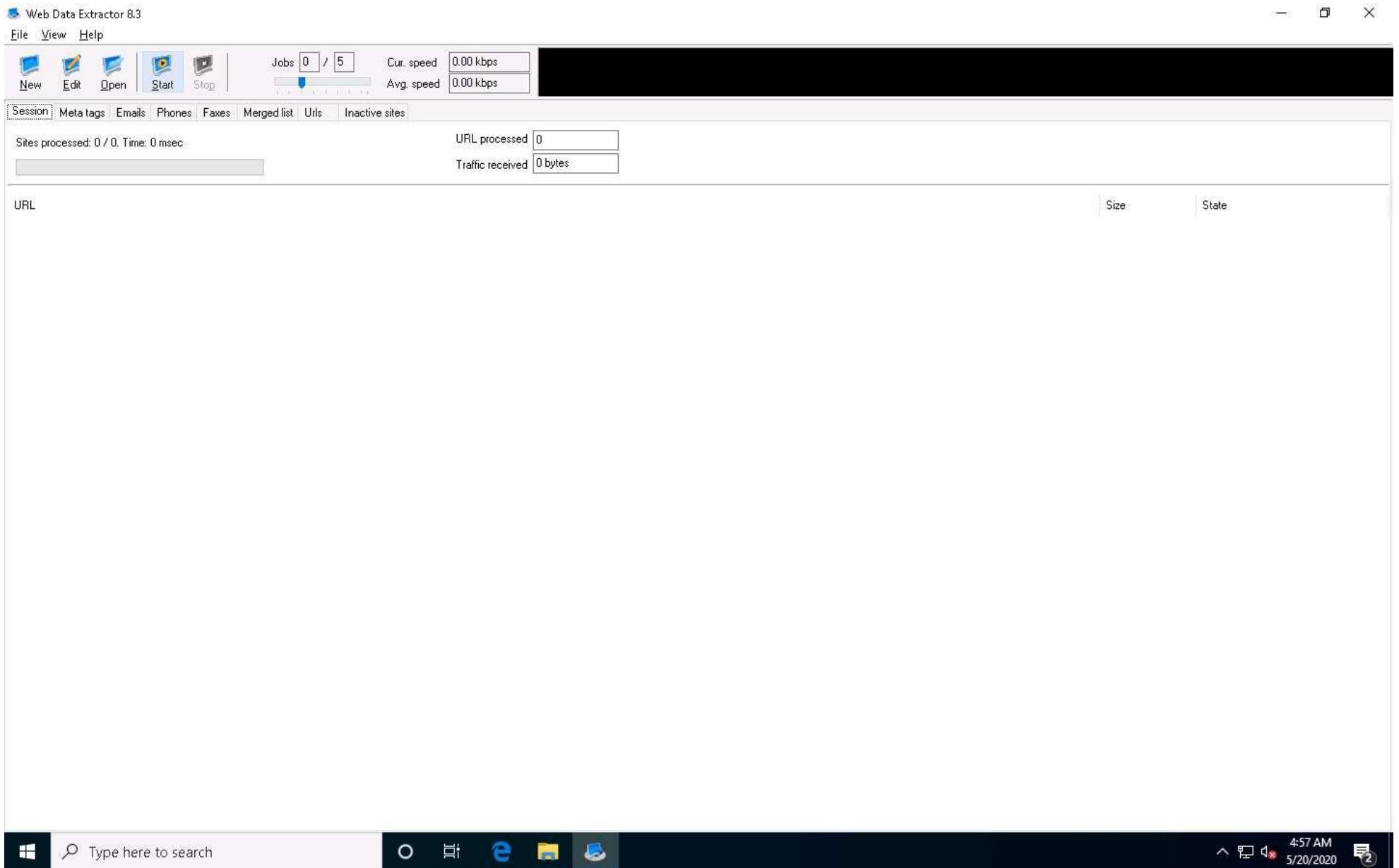
5.  The **Web Data Extractor** main window appears. Click **New** to start a new session.



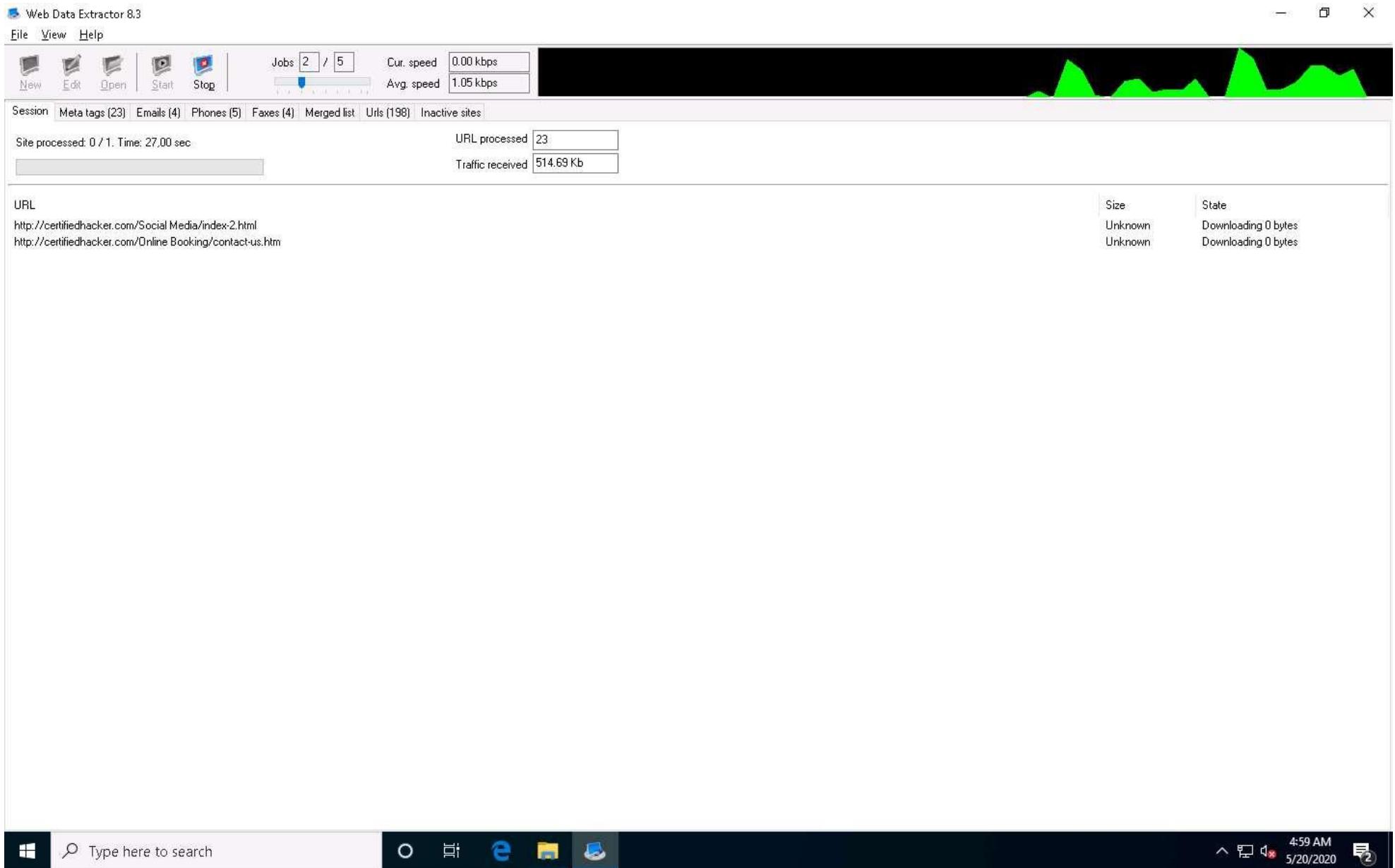
6.  The **Session settings** window appears; type a URL (here, <http://www.certifiedhacker.com>) in the **Starting URL** field. Check all the options, as shown in the screenshot, and click **OK**.



7.  Click **Start** to initiate the data extraction.



8.  **Web Data Extractor** will start collecting information (**Session**, **Meta tags**, **Emails**, **Phones**, **Faxes**, **Merged list**, **URLs**, and **Inactive sites**).



9.  Once the data extraction process is completed, an **Information** dialog box appears; click **OK**.

Web Data Extractor 8.3

File View Help

New Edit Open Start Stop Jobs 0 / 5 Cur. speed 0.00 kbps Avg. speed 0.05 kbps

Session Meta tags (63) Emails (6) Phones (27) Faxes (25) Merged list URLs (639) Inactive sites

Site processed: 1 / 1. Time: 1:11 min URL processed 74 Traffic received 594.35 Kb

URL	Size	State

Information

Web Data Extractor has finished the session.  
You can check extracted data using the correspondent pages.

OK

Type here to search

5:01 AM 5/20/2020

10.  View the extracted information by clicking the tabs.
11.  Select the **Meta tags** tab to view the URL, Title, Keywords, Description, Host, Domain, page size, etc.

Web Data Extractor 8.3

File View Help

New Edit Open Start Stop Cur. speed 0.00 kbps Avg. speed 0.00 kbps

Session Meta tags (63) Emails (6) Phones (27) Faxes (25) Merged list URLs (639) Inactive sites

URL Title Keywords Description Host Domain Page size Page last modified Keywords dens Keywords on Page

http://certifiedhacker.com/corporate-learni				http://certifiedha.com	3039	2/10/2011	0	
http://certifiedhacker.com/corporate-learni				http://certifiedha.com	3651	2/10/2011	0	
http://certifiedhacker.com/Online Booking/ Online Booking: Sitemap	booking, hotel, hote Online Booking			http://certifiedha.com	11965	2/10/2011	0	
http://certifiedhacker.com/Online Booking/ Online Booking: Browse Destinations	booking, hotel, hote Online Booking			http://certifiedha.com	16031	2/10/2011	0	
http://certifiedhacker.com/Online Booking/ Online Booking: Checkout	booking, hotel, hote Online Booking			http://certifiedha.com	12968	2/10/2011	0	
http://certifiedhacker.com/Online Booking/ Online Booking: Contact Us	booking, hotel, hote Online Booking			http://certifiedha.com	14163	2/10/2011	0	
http://certifiedhacker.com/Online Booking/ Online Booking: FAQ	booking, hotel, hote Online Booking			http://certifiedha.com	14047	2/10/2011	0	
http://certifiedhacker.com/Online Booking/ Online Booking: Sitemap	booking, hotel, hote Online Booking			http://certifiedha.com	11689	2/10/2011	0	
http://certifiedhacker.com/Online Booking/ Online Booking: Search	booking, hotel, hote Online Booking			http://certifiedha.com	27877	2/10/2011	0	
http://certifiedhacker.com/Online Booking/ Online Booking: Typography	booking, hotel, hote Online Booking			http://certifiedha.com	12661	2/10/2011	0	
http://certifiedhacker.com/Online Booking/ Online Booking: Hotel Info	booking, hotel, hote Online Booking			http://certifiedha.com	39498	2/10/2011	0	
http://certifiedhacker.com/Online Booking/ Online Booking: Print Preview	booking, hotel, hote Online Booking			http://certifiedha.com	5693	2/10/2011	0	
http://certifiedhacker.com/P-folio/about.htm P-Folio				http://certifiedha.com	9307	2/10/2011	0	
http://certifiedhacker.com/P-folio/blog.html P-Folio				http://certifiedha.com	9464	2/10/2011	0	
http://certifiedhacker.com/P-folio/contact.htm P-Folio				http://certifiedha.com	8531	2/10/2011	0	
http://certifiedhacker.com/P-folio/portfolio.htm P-Folio				http://certifiedha.com	10049	2/10/2011	0	
http://certifiedhacker.com/Real Estates/pa Professional Real Estate Service   Real Esta real estate, real est: Professional Real Estate Servi	Some keywords the A short description of your comp	http://certifiedha.com	3683	2/10/2011	0			
http://certifiedhacker.com/Real Estates/pa Professional Real Estate Service   Real Esta real estate, real est: Professional Real Estate Servi	Some keywords the A short description of your comp	http://certifiedha.com	4352	2/10/2011	0			
http://certifiedhacker.com/Real Estates/pa Professional Real Estate Service   Real Esta real estate, real est: Professional Real Estate Servi	Some keywords the A short description of your comp	http://certifiedha.com	5767	2/10/2011	0			
http://certifiedhacker.com/Real Estates/pa Professional Real Estate Service   Real Esta real estate, real est: Professional Real Estate Servi	Some keywords the A short description of your comp	http://certifiedha.com	5789	2/10/2011	0			
http://certifiedhacker.com/Recipes/about Your company - About us	Some keywords the A short description of your comp	http://certifiedha.com	5762	2/10/2011	0			
http://certifiedhacker.com/Recipes/apple_ Your company - Recipes detail	Some keywords the A short description of your comp	http://certifiedha.com	10147	2/10/2011	0			
http://certifiedhacker.com/Recipes/Chicke Your company - Recipes detail	Some keywords the A short description of your comp	http://certifiedha.com	10081	2/10/2011	0			
http://certifiedhacker.com/Recipes/Chicke Your company - Recipes detail	Some keywords the A short description of your comp	http://certifiedha.com	9594	2/10/2011	0			
http://certifiedhacker.com/Recipes/Chines Your company - Recipes detail	Some keywords the A short description of your comp	http://certifiedha.com	9635	2/10/2011	0			
http://certifiedhacker.com/Recipes/contact Your company - Contact us	Some keywords the A short description of your comp	http://certifiedha.com	5828	2/10/2011	0			
http://certifiedhacker.com/Recipes/honey_ Your company - Recipes detail	Some keywords the A short description of your comp	http://certifiedha.com	9355	2/10/2011	0			
http://certifiedhacker.com/Recipes/kebab_ Your company - Recipes detail	Some keywords the A short description of your comp	http://certifiedha.com	8397	2/10/2011	0			
http://certifiedhacker.com/Recipes/menu_ Your company - Menu	Some keywords the A short description of your comp	http://certifiedha.com	7909	2/10/2011	0			
http://certifiedhacker.com/Recipes/recipes Your company - Recipes	Some keywords the A short description of your comp	http://certifiedha.com	12716	2/10/2011	0			
http://certifiedhacker.com/Recipes/tandoor Your company - Recipes detail	Some keywords the A short description of your comp	http://certifiedha.com	8862	2/10/2011	0			
http://certifiedhacker.com/Recipes/recipes Your company - Recipes detail	Some keywords the A short description of your comp	http://certifiedha.com	10804	2/10/2011	0			
http://certifiedhacker.com/Recipes/menu_ Your company - Menu category	Some keywords the A short description of your comp	http://certifiedha.com	11584	2/10/2011	0			
http://certifiedhacker.com/Recipes/recipes Your company - Recipes category	Some keywords the A short description of your comp	http://certifiedha.com	12451	2/10/2011	0			
http://certifiedhacker.com/Social Media/at Unite - Together is Better (created by Parallel keywords, or phrase A brief description of this website)	Some keywords the A short description of your comp	http://certifiedha.com	13274	2/10/2011	0			
http://certifiedhacker.com/Social Media/sa Unite - Together is Better (created by Parallel keywords, or phrase A brief description of this website)	Some keywords the A short description of your comp	http://certifiedha.com	16239	2/10/2011	0			
http://certifiedhacker.com/Social Media/sa Unite - Together is Better (created by Parallel keywords, or phrase A brief description of this website)	Some keywords the A short description of your comp	http://certifiedha.com	12143	2/10/2011	0			
http://certifiedhacker.com/Social Media/sa				http://certifiedha.com	1489	2/10/2011	0	
http://certifiedhacker.com/Social Media/sa Unite - Together is Better (created by Parallel keywords, or phrase A brief description of this website)	Some keywords the A short description of your comp	http://certifiedha.com	16259	2/10/2011	0			
http://certifiedhacker.com/Turbo Max/epn				http://certifiedha.com	5227	2/10/2011	0	
http://certifiedhacker.com/Under the trees/ Under the Trees				http://certifiedha.com	8593	2/10/2011	0	
http://certifiedhacker.com/Under the trees/ Under the Trees				http://certifiedha.com	2963	2/10/2011	0	
http://certifiedhacker.com/Under the trees/ Under the Trees				http://certifiedha.com	15932	2/10/2011	0	

12.  Select the **Emails** tab to view information related to emails such as Email address, Name, URL, Title, etc.

Type here to search 5:05 AM  
5/20/2020

Web Data Extractor 8.3

File View Help

New Edit Open Start Stop Jobs 0 / 5 Cur. speed 0.00 kbps Avg. speed 0.00 kbps

Session Meta tags (63) Emails (6) Phones (27) Faxes (25) Merged list URLs (639) Inactive sites

With emails only

Email	Name	URL	Title	Host	Keywords de K
contact@unite-magazine-community.com	contact	http://certifiedhacker.com/Social Media/index.html	Unite - Together is Better (created by Parallelus)	http://certifiedhacker.com	0
info@introspire.web	info	http://certifiedhacker.com/corporate-learning-website/contact		http://certifiedhacker.com	0
sales@introspire.web	sales	http://certifiedhacker.com/corporate-learning-website/contact		http://certifiedhacker.com	0
support@introspire.web	support	http://certifiedhacker.com/corporate-learning-website/contact		http://certifiedhacker.com	0
aalia@alisan.com	aalia	http://certifiedhacker.com/P-folio/contact.html	P-Folio	http://certifiedhacker.com	0
contact@bonapetit.com	contact	http://certifiedhacker.com/Recipes/recipes.html	Your company - Recipes	http://certifiedhacker.com	0

Type here to search 5:06 AM 5/20/2020

13.  Select the **Phones** tab to view the Phone, Source, Tag, URL, etc.

Web Data Extractor 8.3

File View Help

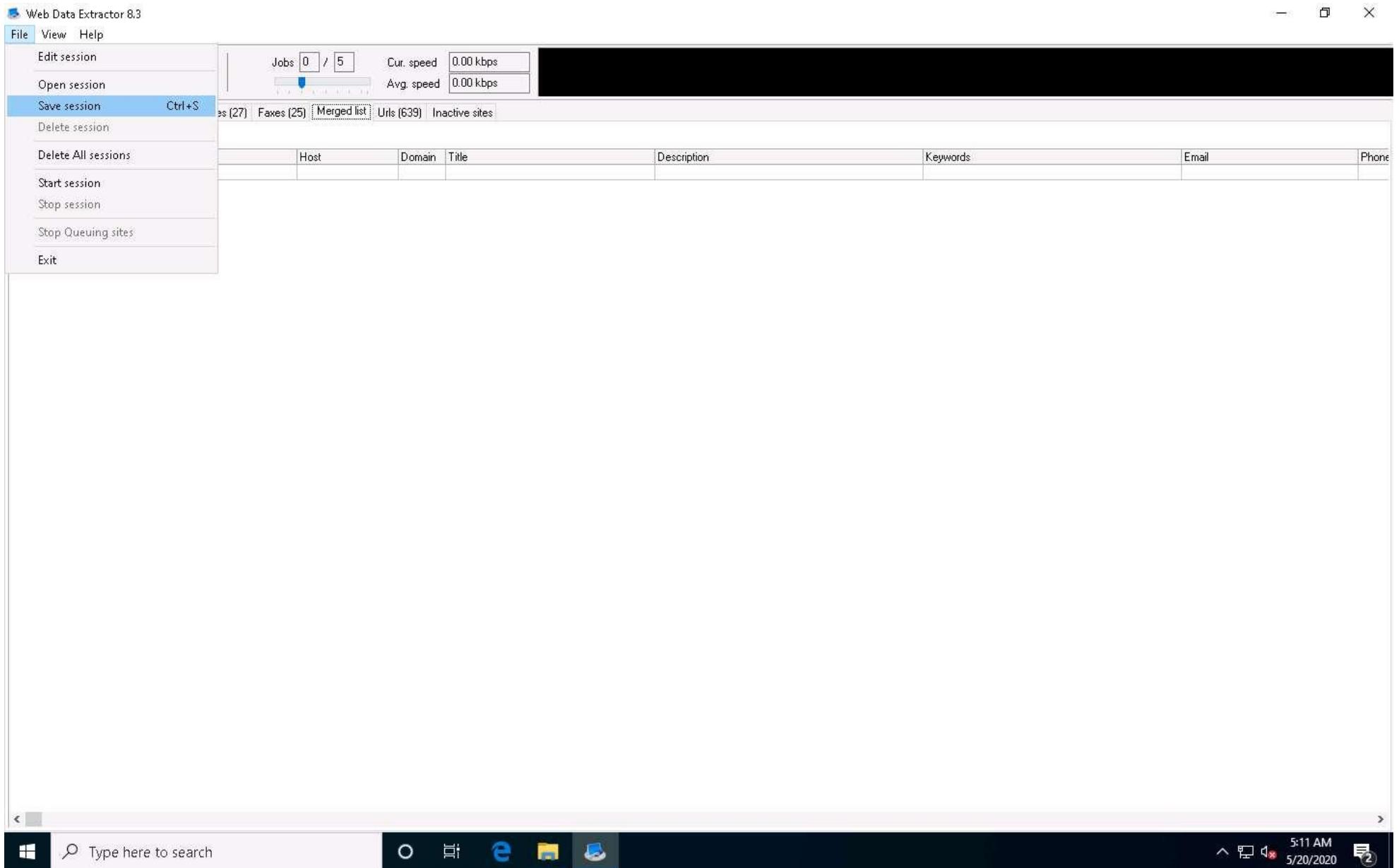
New Edit Open Start Stop

Jobs 0 / 5 Cur. speed 0.00 kbps Avg. speed 0.00 kbps

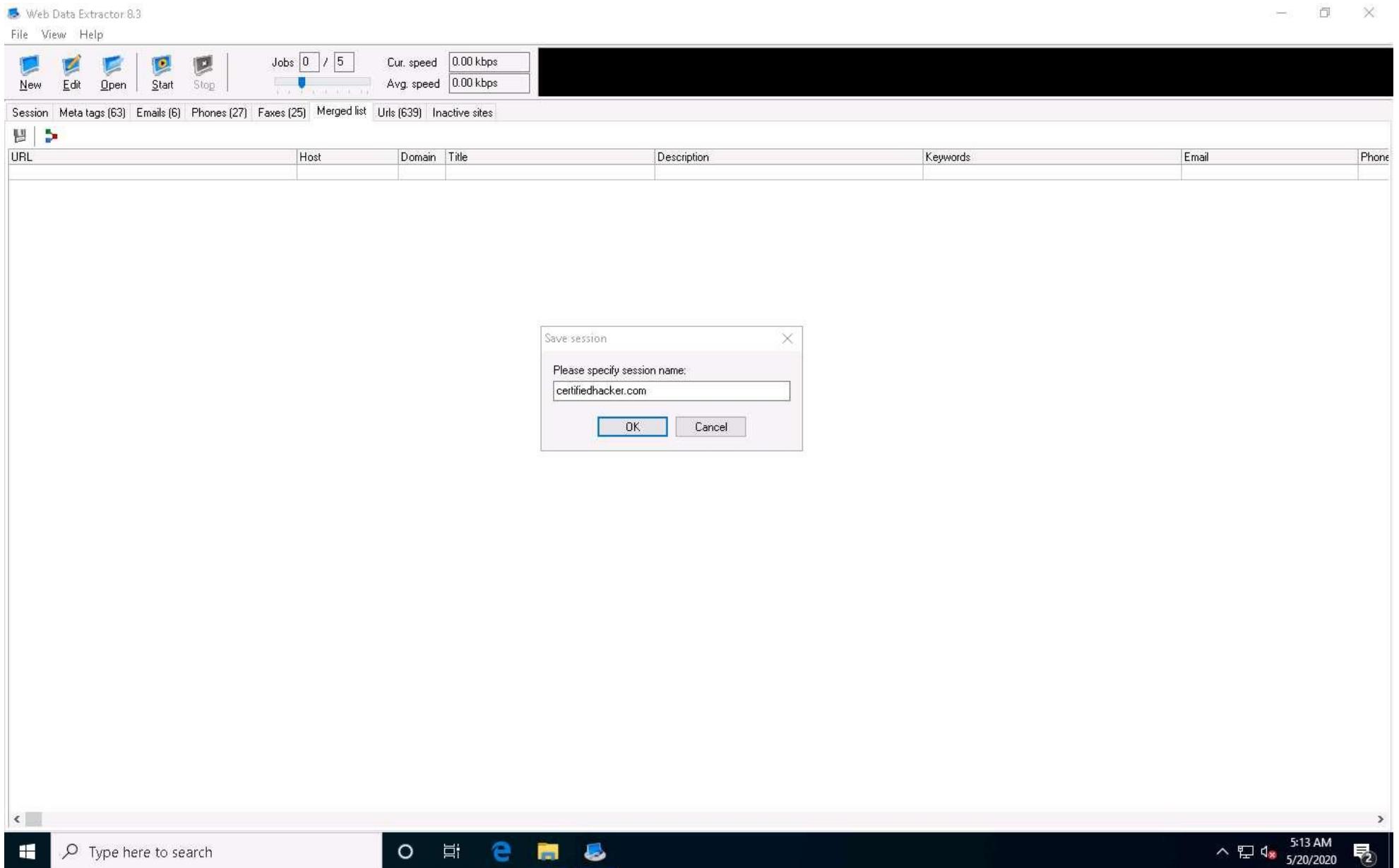
Session Meta tags (63) Emails (6) Phones (27) Faxes (25) Merged list URLs (639) Inactive sites

Phone	Source	Tag	URL	Title	Host
1800123986563	1-800-123-986563	call	http://certifiedhacker.com/Online Booking/index.htm	Online Booking	http://certifiedhacker.com
6662568972	(666) 256-8972		http://certifiedhacker.com/Real Estates/index.html	Professional Real Estate Service   Real Estate	http://certifiedhacker.com
2024831111	202-483-1111		http://certifiedhacker.com/corporate-learning-website/contact		http://certifiedhacker.com
202483111189656323231565429532	202-483-111896-563-2323156-542-9532 Telephone		http://certifiedhacker.com/corporate-learning-website/contact		http://certifiedhacker.com
1800123986563	1-800-123-986563	call	http://certifiedhacker.com/Online Booking/about-us.htm	Online Booking: Sitemap	http://certifiedhacker.com
1800123986563	1-800-123-986563	call	http://certifiedhacker.com/Online Booking/browse.htm	Online Booking: Browse Destinations	http://certifiedhacker.com
1800123986563	1-800-123-986563	call	http://certifiedhacker.com/Online Booking/checkout.htm	Online Booking: Checkout	http://certifiedhacker.com
123456598632	+123-456-598632		http://certifiedhacker.com/Online Booking/contact.htm	Online Booking: Contact Us	http://certifiedhacker.com
1800123986563	1-800-123-986563	call	http://certifiedhacker.com/Online Booking/contact.htm	Online Booking: Contact Us	http://certifiedhacker.com
800123986563	800-123-986563		http://certifiedhacker.com/Online Booking/contact.htm	Online Booking: Contact Us	http://certifiedhacker.com
1800123986563	1-800-123-986563	call	http://certifiedhacker.com/Online Booking/faq.htm	Online Booking: FAQ	http://certifiedhacker.com
1800123986563	1-800-123-986563	call	http://certifiedhacker.com/Online Booking/partners.htm	Online Booking: Sitemap	http://certifiedhacker.com
1001492	100 - 149 2		http://certifiedhacker.com/Online Booking/search.htm	Online Booking: Search	http://certifiedhacker.com
1501912	150 - 199 12		http://certifiedhacker.com/Online Booking/search.htm	Online Booking: Search	http://certifiedhacker.com
1800123986563	1-800-123-986563	call	http://certifiedhacker.com/Online Booking/search.htm	Online Booking: Search	http://certifiedhacker.com
1800123986563	1-800-123-986563	call	http://certifiedhacker.com/Online Booking/terms-conditions.htm	Online Booking: Typography	http://certifiedhacker.com
1800123986563	1-800-123-986563	call	http://certifiedhacker.com/Online Booking/hotel.htm	Online Booking: Hotel Info	http://certifiedhacker.com
901234567	+90 123 45 67	Phone	http://certifiedhacker.com/Pfolio/contact.html	P-Folio	http://certifiedhacker.com
6662568972	(666) 256-8972		http://certifiedhacker.com/Real Estates/pages/about.html	Professional Real Estate Service   Real Estate	http://certifiedhacker.com
8885554689	(888) 555-4689		http://certifiedhacker.com/Real Estates/pages/listing_detail.htm	Professional Real Estate Service   Real Estate	http://certifiedhacker.com
6662568972	(666) 256-8972		http://certifiedhacker.com/Real Estates/pages/search_results	Professional Real Estate Service   Real Estate	http://certifiedhacker.com
6662568972	(666) 256-8972		http://certifiedhacker.com/Real Estates/pages/search_results	Professional Real Estate Service   Real Estate	http://certifiedhacker.com
1800123986563	1-800-123-986563	call	http://certifiedhacker.com/Social Media/sample-blog.html	Unite - Together is Better (created by Parallelus)	http://certifiedhacker.com
102009	10 2009		http://certifiedhacker.com/Under the trees/blog.html	Under the Trees	http://certifiedhacker.com
132009	13 2009		http://certifiedhacker.com/Under the trees/blog.html	Under the Trees	http://certifiedhacker.com
222009	22 2009		http://certifiedhacker.com/Under the trees/blog.html	Under the Trees	http://certifiedhacker.com
262009	26 2009		http://certifiedhacker.com/Under the trees/blog.html	Under the Trees	http://certifiedhacker.com

14.  Check for more information under the **Faxes**, **Merged list**, **URLs**, and **Inactive sites** tabs.
15.  To save the session, choose **File** and click **Save session**.



16.  Specify the session name (here, **certifiedhacker.com**) in the **Save session** dialog box and click **OK**.



17.  Click the **Meta tags** tab, and then click the **floppy** icon.

Web Data Extractor 0.3 - certifiedhacker.com

File View Help

New Edit Open Start Stop Cur. speed 0.00 kbps Avg. speed 0.00 kbps

Session Meta tags [63] Emails [6] Phones [27] Faxes [25] Merged list Urls [639] Inactive sites

**H**

URL	Title	Keywords	Description	Host	Domain	Page size	Page last modified	Keywords dens	Keywords on Page
http://certifiedhacker.com/corporate-learni				http://certifiedha.com	3039	2/10/2011		0	
http://certifiedhacker.com/corporate-learni				http://certifiedha.com	3651	2/10/2011		0	
http://certifiedhacker.com/Online Booking/ Online Booking: Sitemap	booking, hotel, hote Online Booking			http://certifiedha.com	11965	2/10/2011		0	
http://certifiedhacker.com/Online Booking/ Online Booking: Browse Destinations	booking, hotel, hote Online Booking			http://certifiedha.com	16031	2/10/2011		0	
http://certifiedhacker.com/Online Booking/ Online Booking: Checkout	booking, hotel, hote Online Booking			http://certifiedha.com	12968	2/10/2011		0	
http://certifiedhacker.com/Online Booking/ Online Booking: Contact Us	booking, hotel, hote Online Booking			http://certifiedha.com	14163	2/10/2011		0	
http://certifiedhacker.com/Online Booking/ Online Booking: FAQ	booking, hotel, hote Online Booking			http://certifiedha.com	14047	2/10/2011		0	
http://certifiedhacker.com/Online Booking/ Online Booking: Sitemap	booking, hotel, hote Online Booking			http://certifiedha.com	11689	2/10/2011		0	
http://certifiedhacker.com/Online Booking/ Online Booking: Search	booking, hotel, hote Online Booking			http://certifiedha.com	27877	2/10/2011		0	
http://certifiedhacker.com/Online Booking/ Online Booking: Typography	booking, hotel, hote Online Booking			http://certifiedha.com	12661	2/10/2011		0	
http://certifiedhacker.com/Online Booking/ Online Booking: Hotel Info	booking, hotel, hote Online Booking			http://certifiedha.com	39498	2/10/2011		0	
http://certifiedhacker.com/Online Booking/ Online Booking: Print Preview	booking, hotel, hote Online Booking			http://certifiedha.com	5693	2/10/2011		0	
http://certifiedhacker.com/P-folio/about.htm P-Folio				http://certifiedha.com	9307	2/10/2011		0	
http://certifiedhacker.com/P-folio/blog.htm P-Folio				http://certifiedha.com	9464	2/10/2011		0	
http://certifiedhacker.com/P-folio/contact.htm P-Folio				http://certifiedha.com	8531	2/10/2011		0	
http://certifiedhacker.com/P-folio/portfolio.htm P-Folio				http://certifiedha.com	10049	2/10/2011		0	
http://certifiedhacker.com/Real Estates/pa Professional Real Estate Service   Real Esta real estate, real est: Professional Real Estate Servi	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	3683	2/10/2011		0	
http://certifiedhacker.com/Real Estates/pa Professional Real Estate Service   Real Esta real estate, real est: Professional Real Estate Servi	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	4352	2/10/2011		0	
http://certifiedhacker.com/Real Estates/pa Professional Real Estate Service   Real Esta real estate, real est: Professional Real Estate Servi	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	5767	2/10/2011		0	
http://certifiedhacker.com/Real Estates/pa Professional Real Estate Service   Real Esta real estate, real est: Professional Real Estate Servi	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	5789	2/10/2011		0	
http://certifiedhacker.com/Recipes/about Your company - About us	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	5762	2/10/2011		0	
http://certifiedhacker.com/Recipes/apple_ Your company - Recipes detail	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	10147	2/10/2011		0	
http://certifiedhacker.com/Recipes/Chick_ Your company - Recipes detail	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	10081	2/10/2011		0	
http://certifiedhacker.com/Recipes/Chicks_ Your company - Recipes detail	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	9594	2/10/2011		0	
http://certifiedhacker.com/Recipes/Chines_ Your company - Recipes detail	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	9635	2/10/2011		0	
http://certifiedhacker.com/Recipes/contact Your company - Contact us	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	5828	2/10/2011		0	
http://certifiedhacker.com/Recipes/honey_ Your company - Recipes detail	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	9355	2/10/2011		0	
http://certifiedhacker.com/Recipes/kebab_ Your company - Recipes detail	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	8397	2/10/2011		0	
http://certifiedhacker.com/Recipes/menu_ Your company - Menu	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	7909	2/10/2011		0	
http://certifiedhacker.com/Recipes/recipes_ Your company - Recipes	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	12716	2/10/2011		0	
http://certifiedhacker.com/Recipes/tando_ Your company - Recipes detail	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	8862	2/10/2011		0	
http://certifiedhacker.com/Recipes/recipes_ Your company - Recipes detail	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	10804	2/10/2011		0	
http://certifiedhacker.com/Recipes/menu_ Your company - Menu category	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	11584	2/10/2011		0	
http://certifiedhacker.com/Recipes/recipes_ Your company - Recipes category	Some keywords the A short description of your comp http://certifiedha.com			http://certifiedha.com	12451	2/10/2011		0	
http://certifiedhacker.com/Social Media/at Unite - Together is Better (created by Parallel keywords, or phrase A brief description of this website)	Some keywords the A brief description of this website http://certifiedha.com			http://certifiedha.com	13274	2/10/2011		0	
http://certifiedhacker.com/Social Media/sa Unite - Together is Better (created by Parallel keywords, or phrase A brief description of this website)	Some keywords the A brief description of this website http://certifiedha.com			http://certifiedha.com	16239	2/10/2011		0	
http://certifiedhacker.com/Social Media/sa Unite - Together is Better (created by Parallel keywords, or phrase A brief description of this website)	Some keywords the A brief description of this website http://certifiedha.com			http://certifiedha.com	12143	2/10/2011		0	
http://certifiedhacker.com/Social Media/sa				http://certifiedha.com	1489	2/10/2011		0	
http://certifiedhacker.com/Social Media/sa Unite - Together is Better (created by Parallel keywords, or phrase A brief description of this website)	Some keywords the A brief description of this website http://certifiedha.com			http://certifiedha.com	16259	2/10/2011		0	
http://certifiedhacker.com/Turbo Max/iepn				http://certifiedha.com	5227	2/10/2011		0	
http://certifiedhacker.com/Under the trees/ Under the Trees				http://certifiedha.com	8593	2/10/2011		0	
http://certifiedhacker.com/Under the trees/ Under the Trees				http://certifiedha.com	2963	2/10/2011		0	
http://certifiedhacker.com/Under the trees/ Under the Trees				http://certifiedha.com	5932	2/10/2011		0	

18.  An **Information** pop-up may appear with the message **You cannot save more than 10 records in Demo Version**; click **OK**.

5:15 AM  
5/20/2020

19.  The **Save Meta tags** window appears. In the **File name** field, click on the **folder icon**, select the location where you want to save the file, choose **File format**, and click **Save**.

The screenshot shows the Web Data Extractor 8.3 interface. The main window displays a list of URLs from the session, including various booking and real estate services. A 'Save Meta tags' dialog box is overlaid on the screen. The dialog box has the following fields:

- File name:** C:\Program Files (x86)\WebExtractor\Data\certifiedhac
- Scope:** Selected rows
- File format:** Text (CSV) (radio button selected)
- Fields delimiter:** Line
- Fields:** URL, Host, Domain, Title, Description, Keywords, Body (all checked)
- Buttons:** Save (highlighted in blue), Cancel

The background table lists the following data (partial list):

URL	Title	Keywords	Description	Host	Domain	Page size	Page last modified	Keywords dens	Keywords on Page
http://certifiedhacker.com/corporate-learnir				http://certifiedha.com	3039	2/10/2011	0		
http://certifiedhacker.com/corporate-learnir				http://certifiedha.com	3651	2/10/2011	0		
http://certifiedhacker.com/Online Booking/ Online Booking: Sitemap		booking, hotel, hote	Online Booking	http://certifiedha.com	11965	2/10/2011	0		
http://certifiedhacker.com/Online Booking/ Online Booking: Browse Destinations		bookin		http://certifiedha.com	16021	2/10/2011	0		
http://certifiedhacker.com/Online Booking/ Online Booking: Checkout		bookin		http://certifiedha.com	16021	2/10/2011	0		
http://certifiedhacker.com/Online Booking/ Online Booking: Contact Us		bookin		http://certifiedha.com	16021	2/10/2011	0		
http://certifiedhacker.com/Online Booking/ Online Booking: FAQ		bookin		http://certifiedha.com	16021	2/10/2011	0		
http://certifiedhacker.com/Online Booking/ Online Booking: Sitemap		bookin		http://certifiedha.com	16021	2/10/2011	0		
http://certifiedhacker.com/Online Booking/ Online Booking: Search		bookin		http://certifiedha.com	16021	2/10/2011	0		
http://certifiedhacker.com/Online Booking/ Online Booking: Typography		bookin		http://certifiedha.com	16021	2/10/2011	0		
http://certifiedhacker.com/Online Booking/ Online Booking: Hotel Info		bookin		http://certifiedha.com	16021	2/10/2011	0		
http://certifiedhacker.com/Online Booking/ Online Booking: Print Preview		bookin		http://certifiedha.com	16021	2/10/2011	0		
http://certifiedhacker.com/P-folio/about.htm P-Folio				http://certifiedha.com	16021	2/10/2011	0		
http://certifiedhacker.com/P-folio/blog.html P-Folio				http://certifiedha.com	16021	2/10/2011	0		
http://certifiedhacker.com/P-folio/contact.htm P-Folio				http://certifiedha.com	16021	2/10/2011	0		
http://certifiedhacker.com/P-folio/portfolio.htm P-Folio				http://certifiedha.com	16021	2/10/2011	0		
http://certifiedhacker.com/Real Estates/pa Professional Real Estate Service   Real Esta real es				http://certifiedha.com	16021	2/10/2011	0		
http://certifiedhacker.com/Real Estates/pa Professional Real Estate Service   Real Esta real es				http://certifiedha.com	16021	2/10/2011	0		
http://certifiedhacker.com/Real Estates/pa Professional Real Estate Service   Real Esta real es				http://certifiedha.com	16021	2/10/2011	0		
http://certifiedhacker.com/Real Estates/pa Professional Real Estate Service   Real Esta real es				http://certifiedha.com	16021	2/10/2011	0		
http://certifiedhacker.com/Recipes/about Your company - About us		Some		http://certifiedha.com	9594	2/10/2011	0		
http://certifiedhacker.com/Recipes/apple_ Your company - Recipes detail		Some		http://certifiedha.com	9635	2/10/2011	0		
http://certifiedhacker.com/Recipes/Chick Your company - Recipes detail		Some		http://certifiedha.com	5828	2/10/2011	0		
http://certifiedhacker.com/Recipes/Chiche Your company - Recipes detail		Some keywords the A short description of your comp	http://certifiedha.com	http://certifiedha.com	9355	2/10/2011	0		
http://certifiedhacker.com/Recipes/Chines Your company - Recipes detail		Some keywords the A short description of your comp	http://certifiedha.com	http://certifiedha.com	8397	2/10/2011	0		
http://certifiedhacker.com/Recipes/contact Your company - Contact us		Some keywords the A short description of your comp	http://certifiedha.com	http://certifiedha.com	7909	2/10/2011	0		
http://certifiedhacker.com/Recipes/honey_ Your company - Recipes detail		Some keywords the A short description of your comp	http://certifiedha.com	http://certifiedha.com	12716	2/10/2011	0		
http://certifiedhacker.com/Recipes/kebab_ Your company - Recipes detail		Some keywords the A short description of your comp	http://certifiedha.com	http://certifiedha.com	8862	2/10/2011	0		
http://certifiedhacker.com/Recipes/menu_ Your company - Menu		Some keywords the A short description of your comp	http://certifiedha.com	http://certifiedha.com	10804	2/10/2011	0		
http://certifiedhacker.com/Recipes/recipes_ Your company - Recipes		Some keywords the A short description of your comp	http://certifiedha.com	http://certifiedha.com	11584	2/10/2011	0		
http://certifiedhacker.com/Recipes/tando_ Your company - Recipes detail		Some keywords the A short description of your comp	http://certifiedha.com	http://certifiedha.com	12451	2/10/2011	0		
http://certifiedhacker.com/Social Media/at Unite - Together is Better (created by Parallel keywords, or phrase A brief description of this website)		Some keywords the A short description of your comp	http://certifiedha.com	http://certifiedha.com	13274	2/10/2011	0		
http://certifiedhacker.com/Social Media/sa Unite - Together is Better (created by Parallel keywords, or phrase A brief description of this website)		Some keywords the A short description of your comp	http://certifiedha.com	http://certifiedha.com	16239	2/10/2011	0		
http://certifiedhacker.com/Social Media/sa Unite - Together is Better (created by Parallel keywords, or phrase A brief description of this website)		Some keywords the A short description of your comp	http://certifiedha.com	http://certifiedha.com	12143	2/10/2011	0		
http://certifiedhacker.com/Social Media/sa		Some keywords the A short description of your comp	http://certifiedha.com	http://certifiedha.com	1489	2/10/2011	0		
http://certifiedhacker.com/Social Media/sa Unite - Together is Better (created by Parallel keywords, or phrase A brief description of this website)		Some keywords the A short description of your comp	http://certifiedha.com	http://certifiedha.com	16259	2/10/2011	0		
http://certifiedhacker.com/Turbo Max/epn		Some keywords the A short description of your comp	http://certifiedha.com	http://certifiedha.com	5227	2/10/2011	0		
http://certifiedhacker.com/Under the trees/ Under the Trees		Some keywords the A short description of your comp	http://certifiedha.com	http://certifiedha.com	8593	2/10/2011	0		
http://certifiedhacker.com/Under the trees/ Under the Trees		Some keywords the A short description of your comp	http://certifiedha.com	http://certifiedha.com	2963	2/10/2011	0		
http://certifiedhacker.com/Under the trees/ Under the Trees		Some keywords the A short description of your comp	http://certifiedha.com	http://certifiedha.com	5932	2/10/2011	0		

20.  By default, the session will be saved at **C:\Program Files (x86)\WebExtractor\Data\certifiedhacker.com**. You can choose your desired location to save the file.
  21.  This concludes the demonstration of extracting a company's data using the Web Data Extractor tool.
  22.  You can also use other web spiders such as **ParseHub** (<https://www.parsehub.com>), **SpiderFoot** (<https://www.spiderfoot.net>), etc. to extract the target organization's data.
  23.  Close all open windows and document all the acquired information.
- 

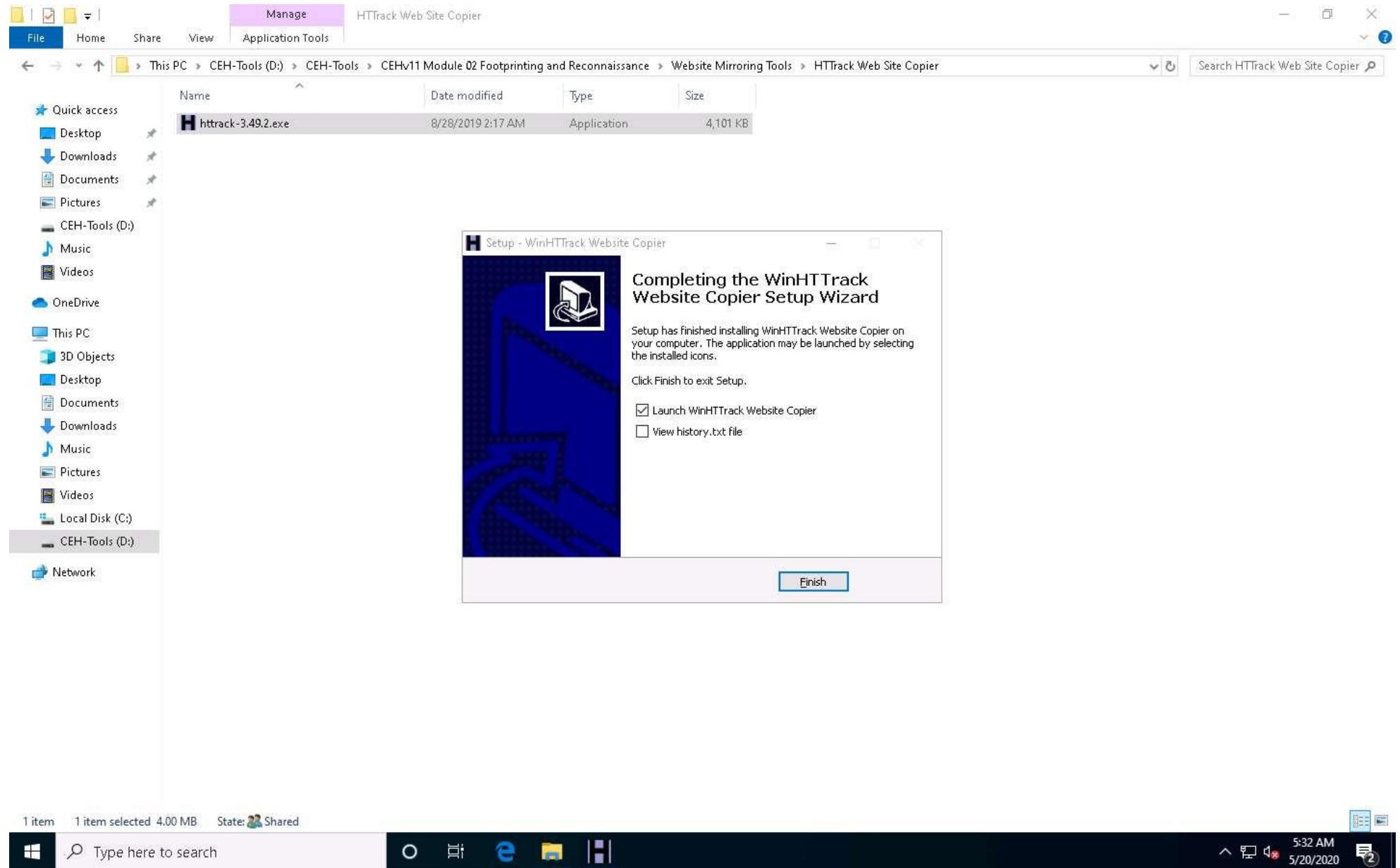
## Task 4: Mirror a Target Website using HTTrack Web Site Copier

Website mirroring is the process of creating a replica or clone of the original website; this mirroring of the website helps you to footprint the web site thoroughly on your local system, and allows you to download a website to a local directory, analyze all directories, HTML, images, flash, videos, and other files from the server on your computer.

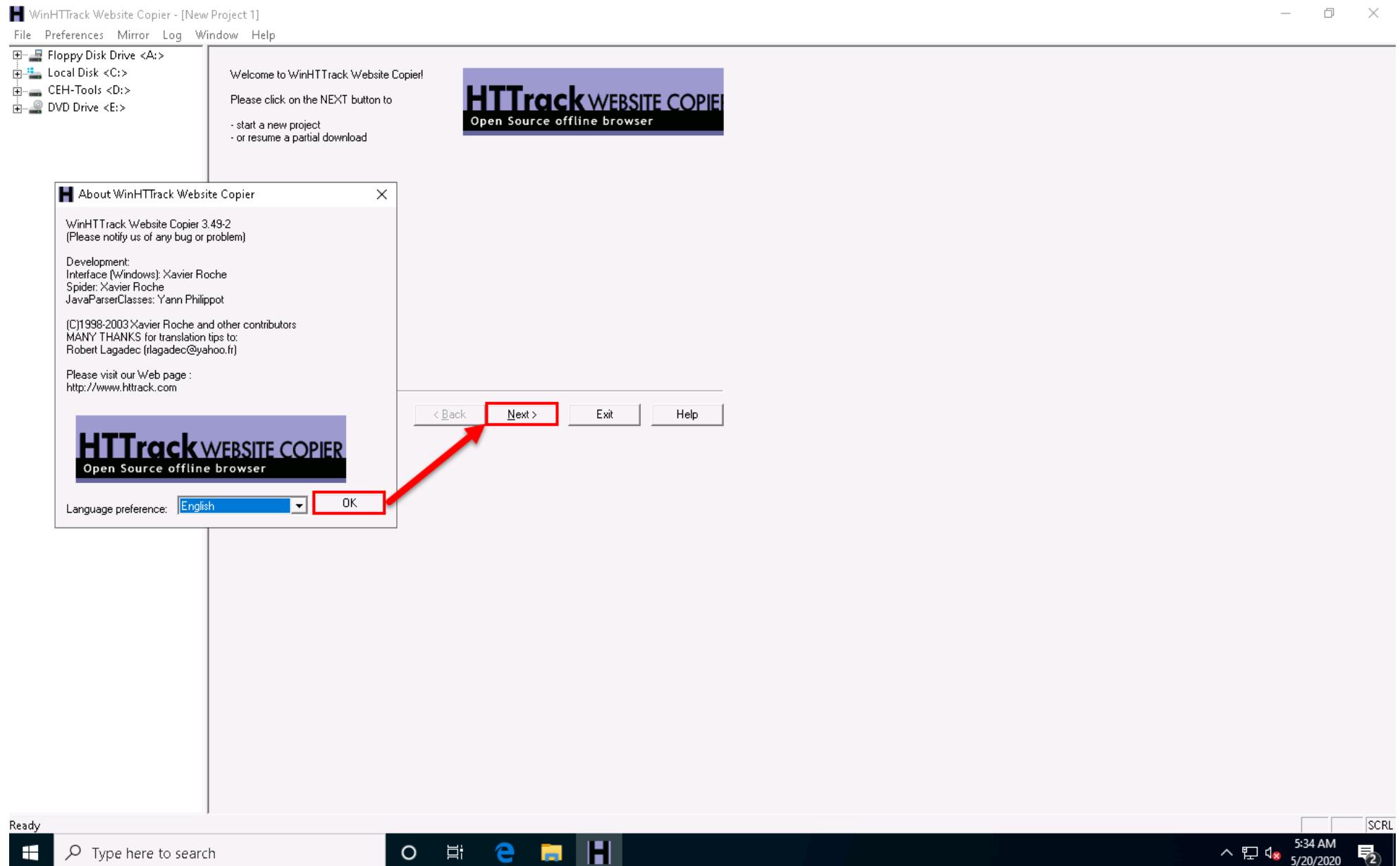
You can duplicate websites by using website mirroring tools such as HTTrack Web Site Copier. HTTrack is an offline browser utility that downloads a website from the Internet to a local directory, builds all directories recursively, and transfers HTML, images, and other files from the webserver to another computer.

Here, we will use the HTTrack Web Site Copier tool to mirror the entire website of the target organization, store it in the local system drive, and browse the local website to identify possible exploits and vulnerabilities.

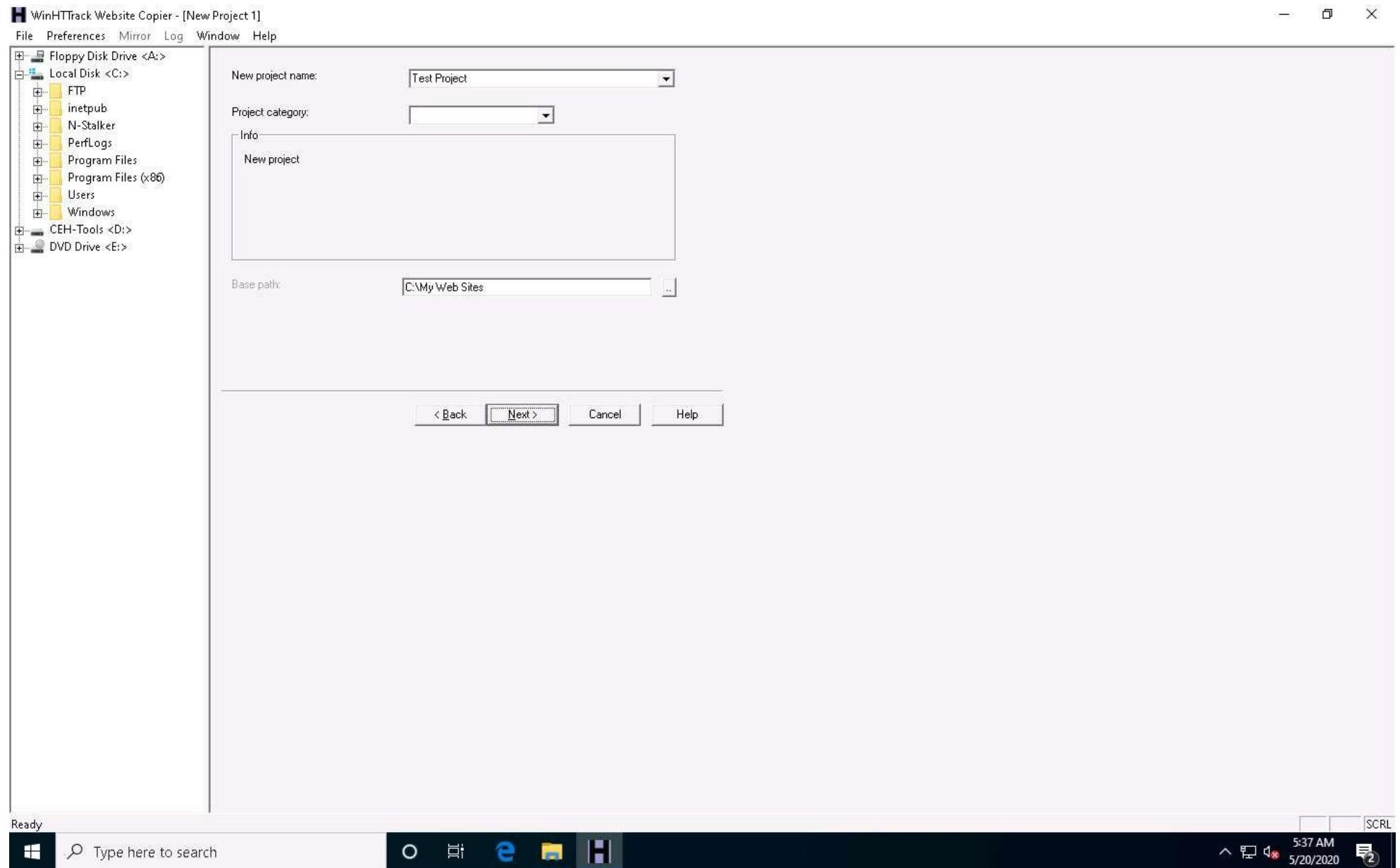
1.  In the **Windows 10** machine, navigate to **D:\CEH-Tools\CEHv11 Module 02 Footprinting and Reconnaissance\Website Mirroring Tools\HTTrack Web Site Copier** and double-click **httrack-3.49.2.exe**.
2.  If the **User Account Control** pop-up appears, click **Yes**.
3.  Follow the wizard steps to install **HTTrack Web Site Copier**.
4.  In the last step of the installation wizard, uncheck the **View history.txt file** option and click **Finish**.



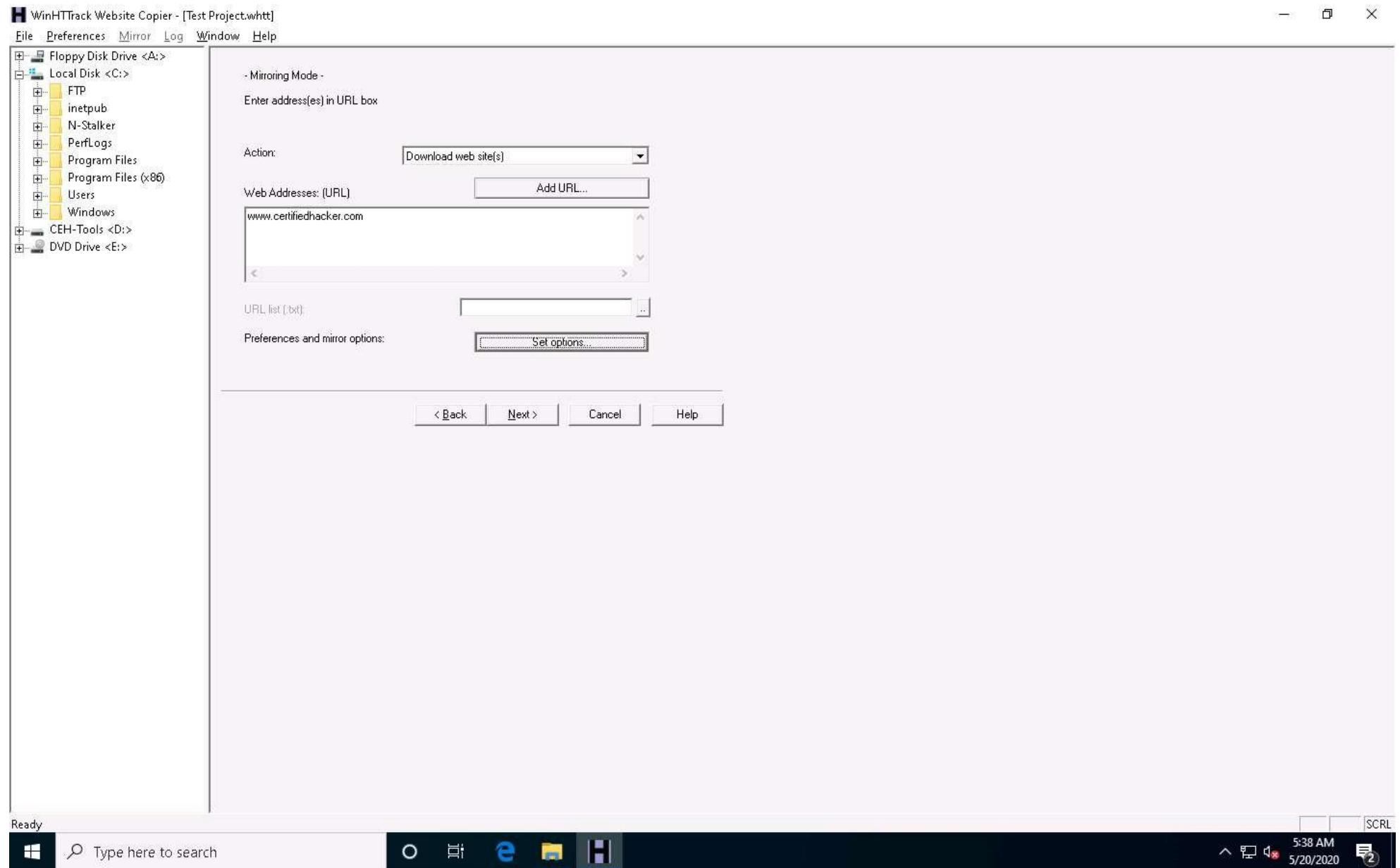
5.  The **WinHTTrack Website Copier** window appears. Click **OK** in the pop-up window, and then click **Next >** to create a **New Project**.



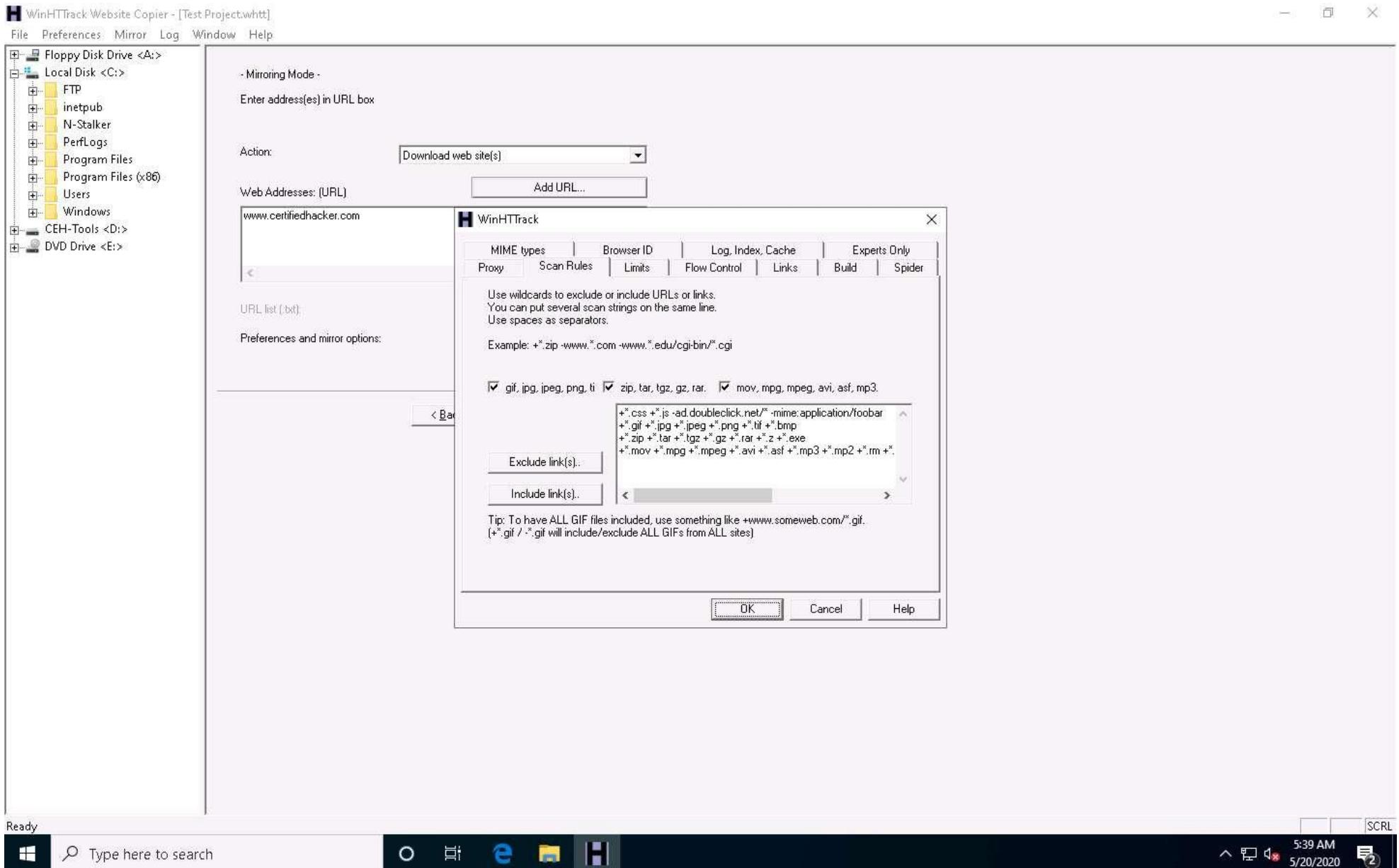
6.  Enter the name of the project (here, **Test Project**) in the **New project name:** field. Select the **Base path:** to store the copied files; click **Next >**.



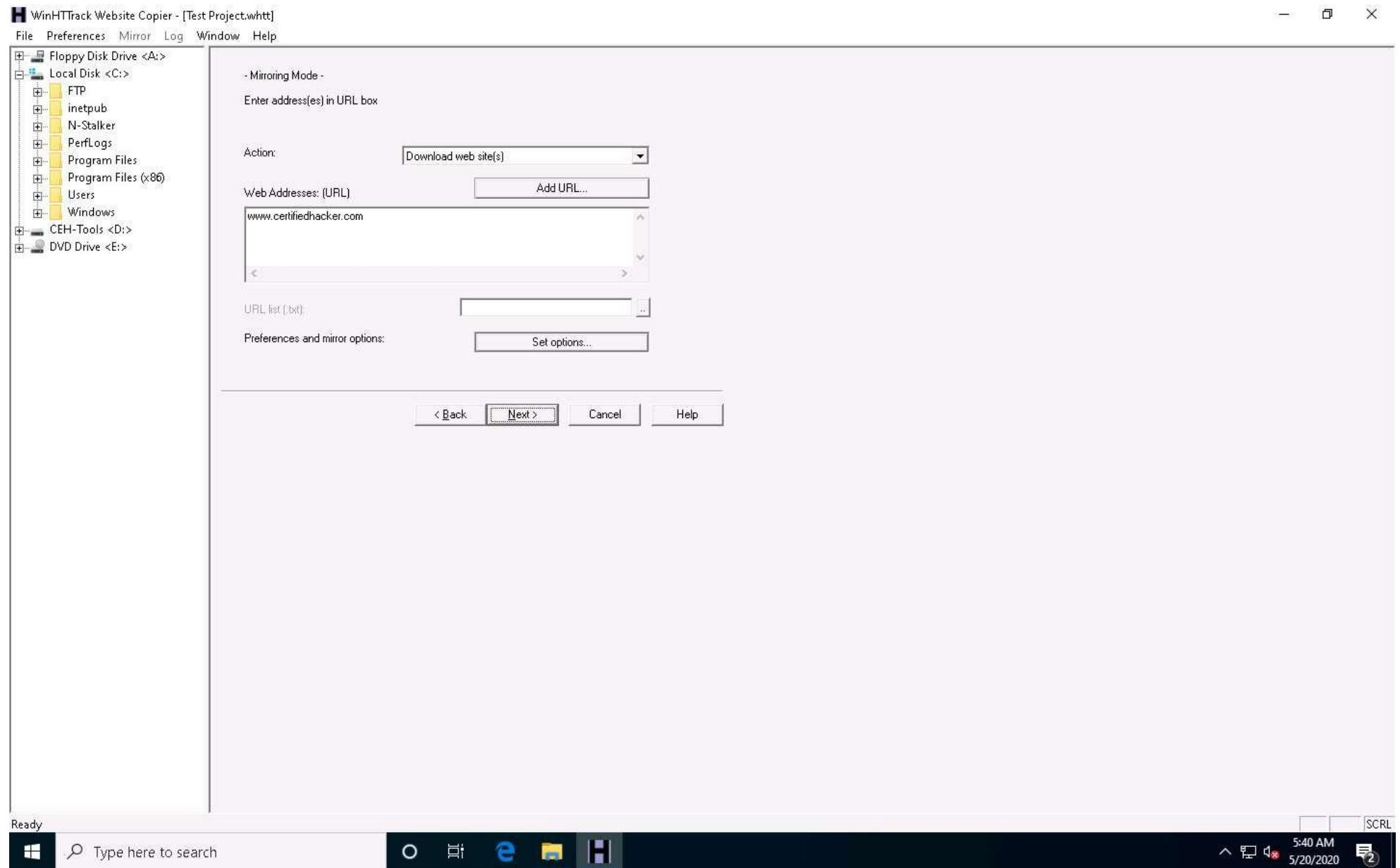
7.  Enter a target URL (here, [www.certifiedhacker.com](http://www.certifiedhacker.com)) in the **Web Addresses: (URL)** field and click **Set options....**



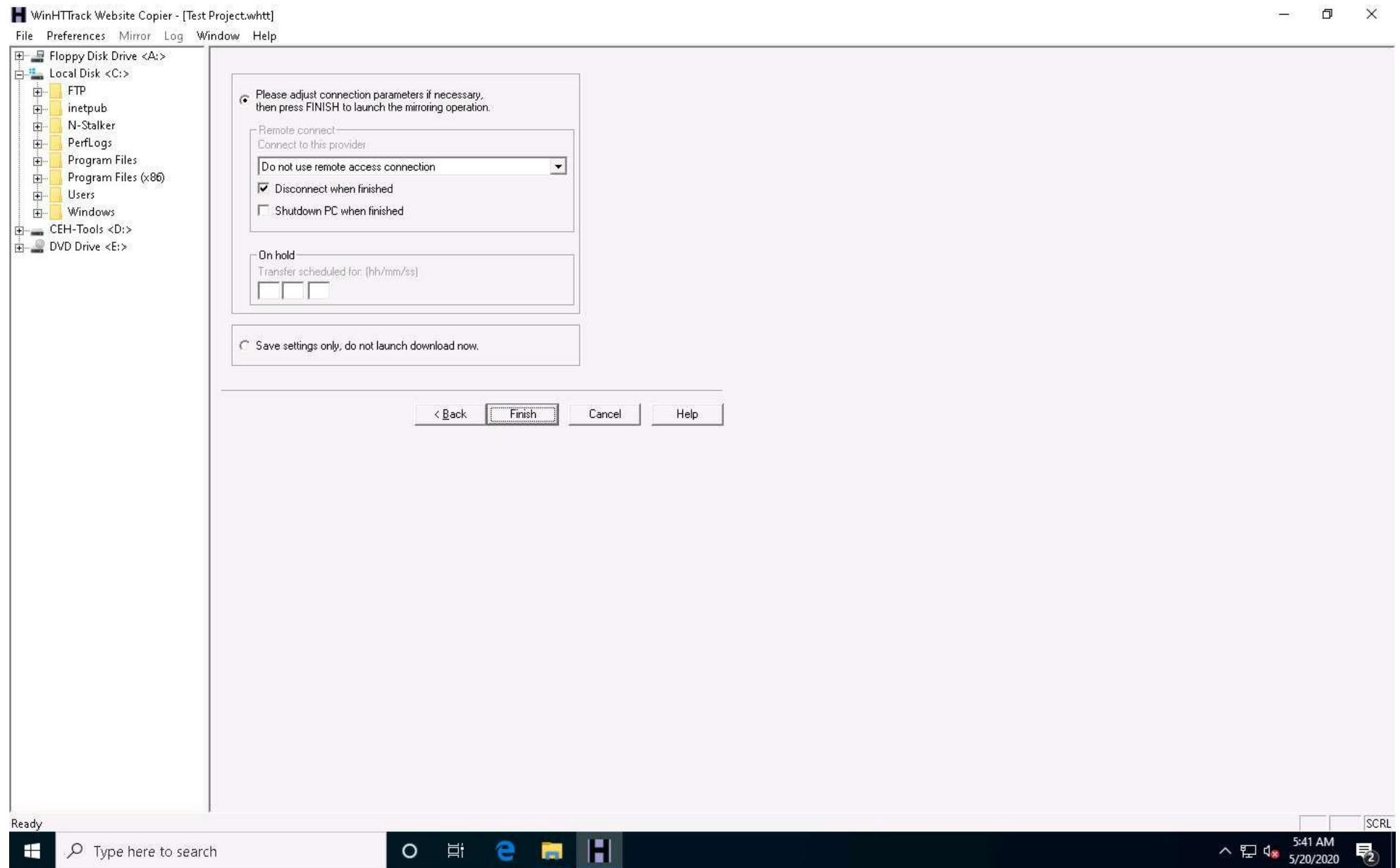
8.  WinHTTrack window appears, click the **Scan Rules** tab and select the checkboxes for the file types as shown in the following screenshot; click **OK**.



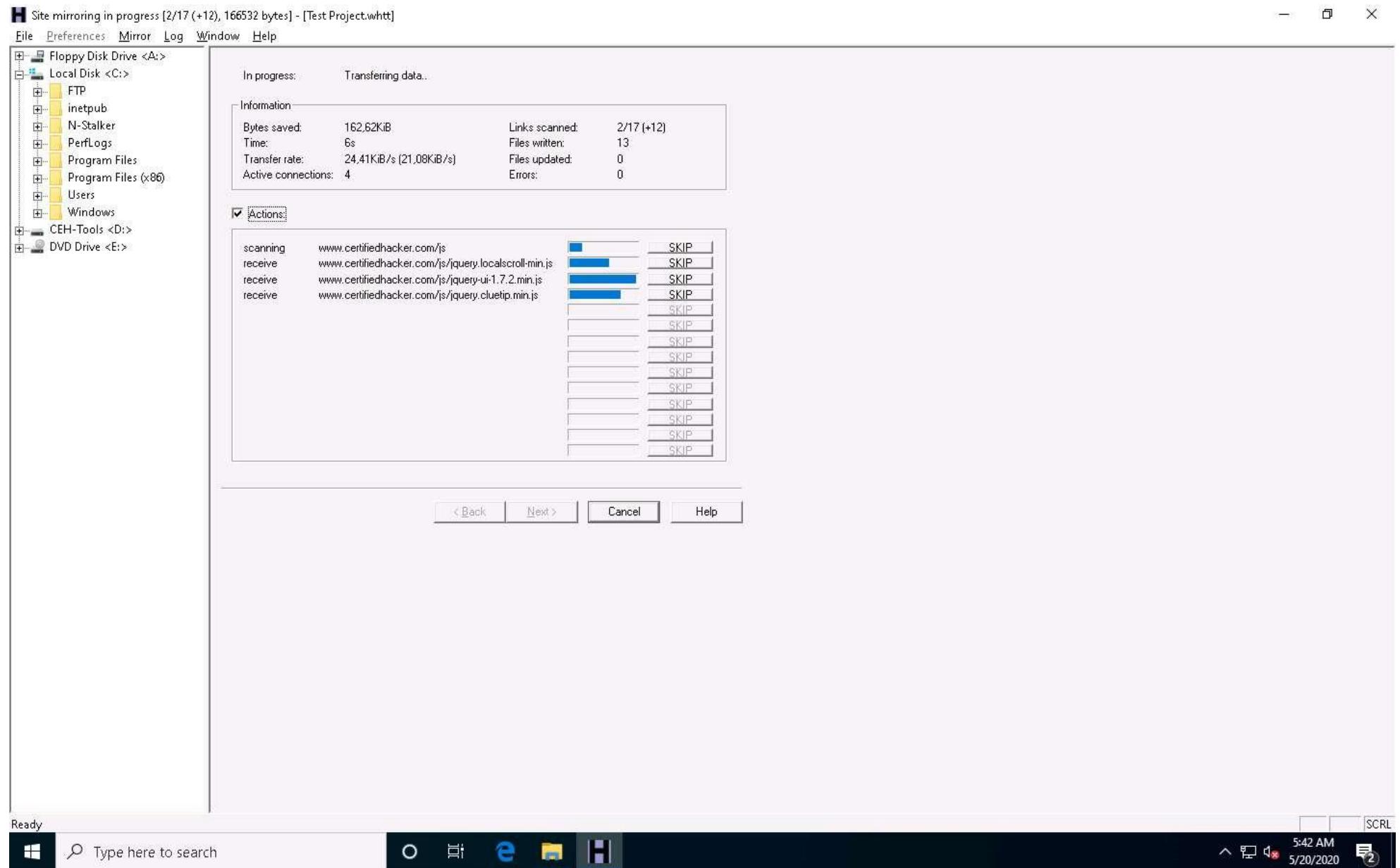
9.  Click the **Next >** button.



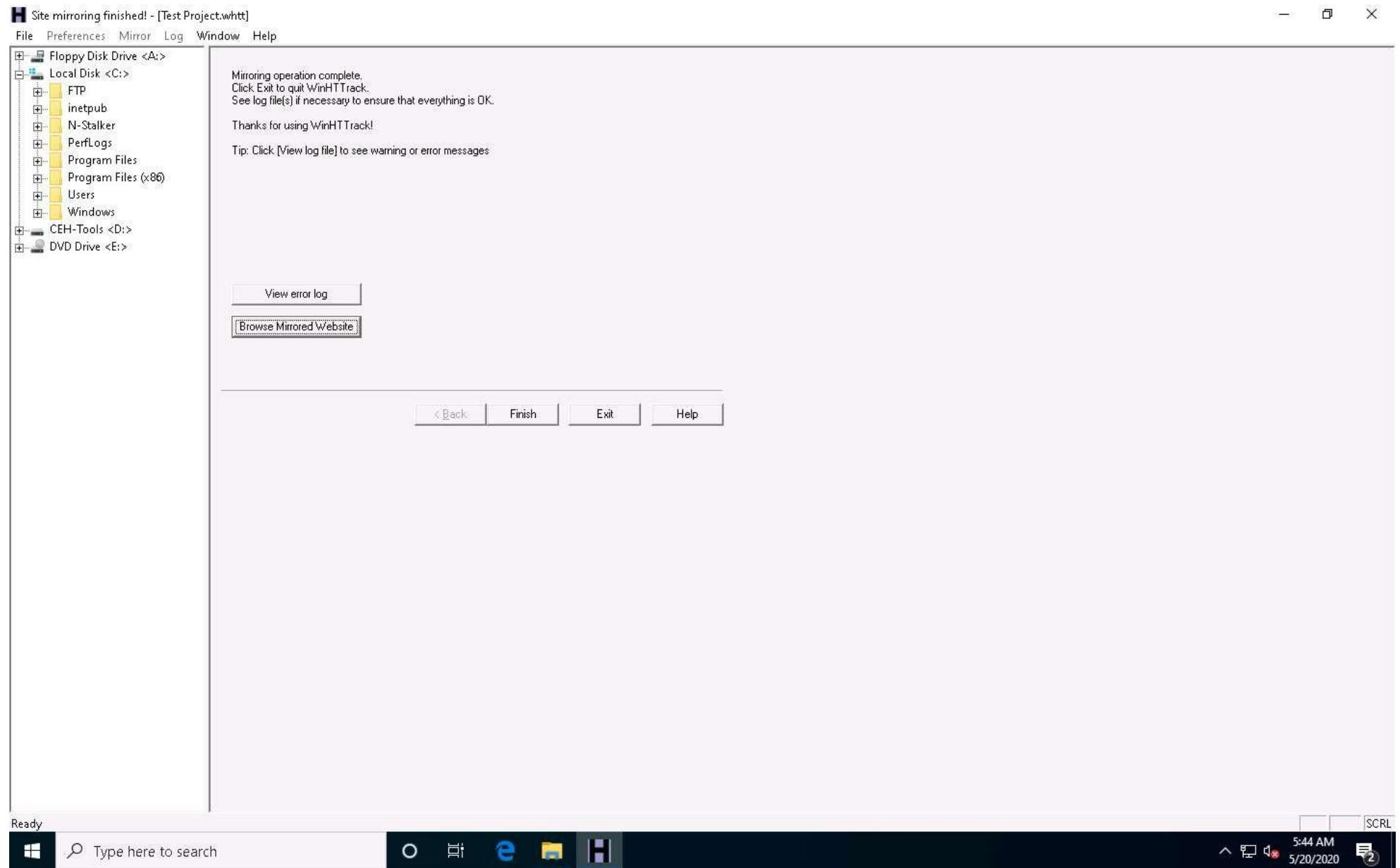
10.  By default, the radio button will be selected for **Please adjust connection parameters if necessary, then press FINISH to launch the mirroring operation.** Check **Disconnect when finished** and click **Finish** to start mirroring the website.



11.  Site mirroring progress will be displayed, as shown in the screenshot.

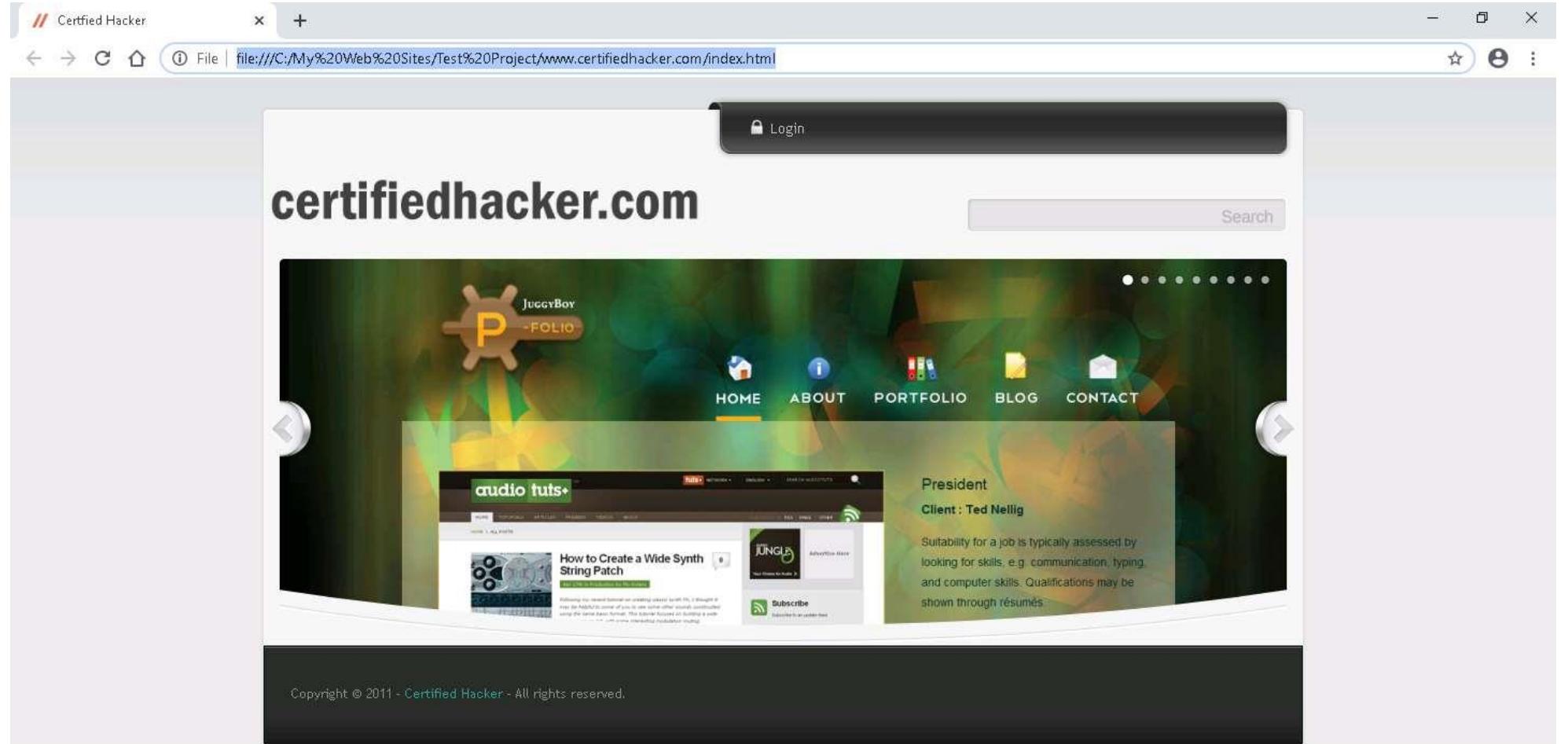


12.  Once the site mirroring is completed, WinHTTrack displays the message **Mirroring operation complete**; click on **Browse Mirrored Website**.



13.  If the **How do you want to open this file?** pop up appears, select any web browser and click **OK**.

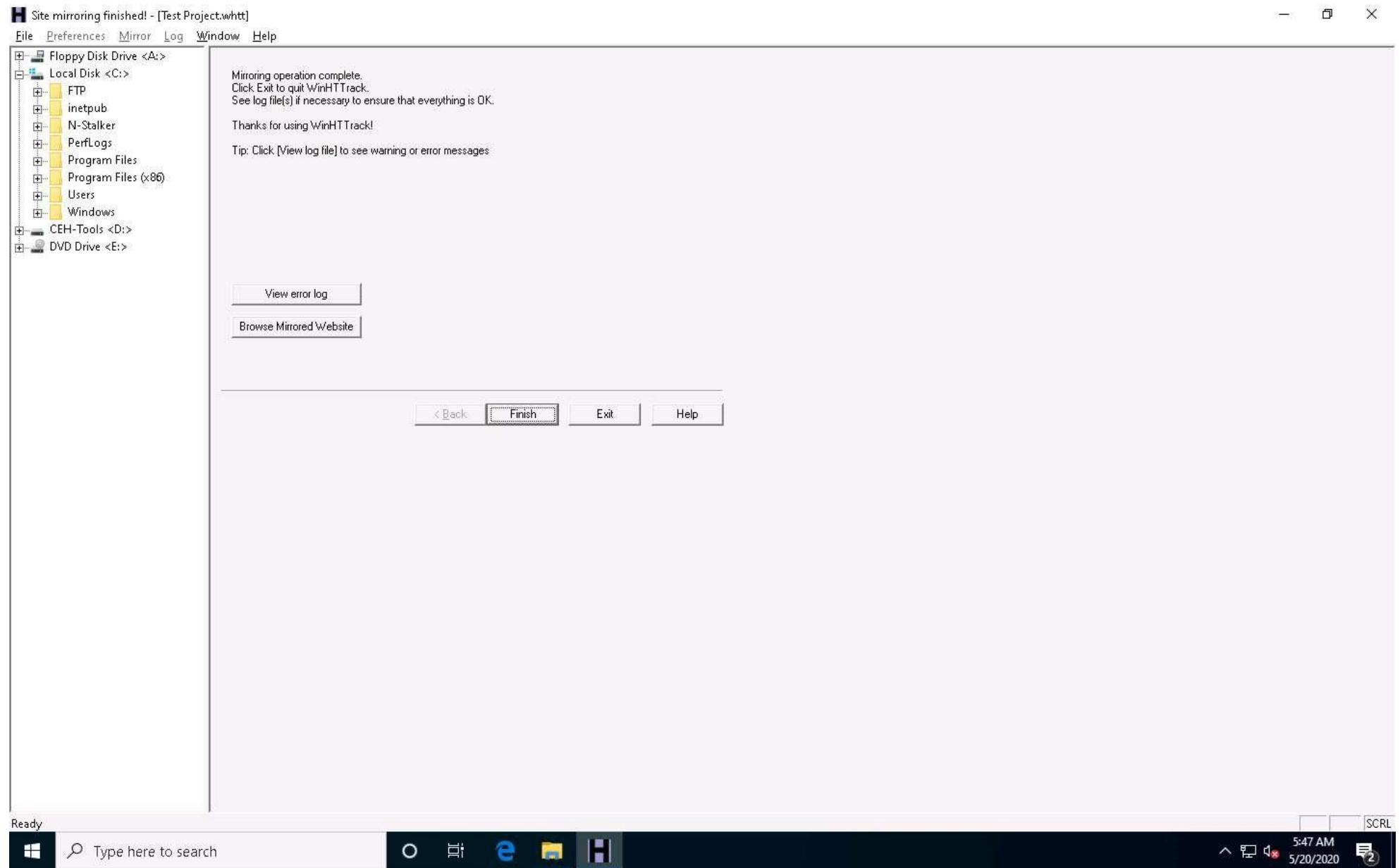
14.  The mirrored website for **www.certifiedhacker.com** launches. The URL displayed in the address bar indicates that the website's image is stored on the local machine.

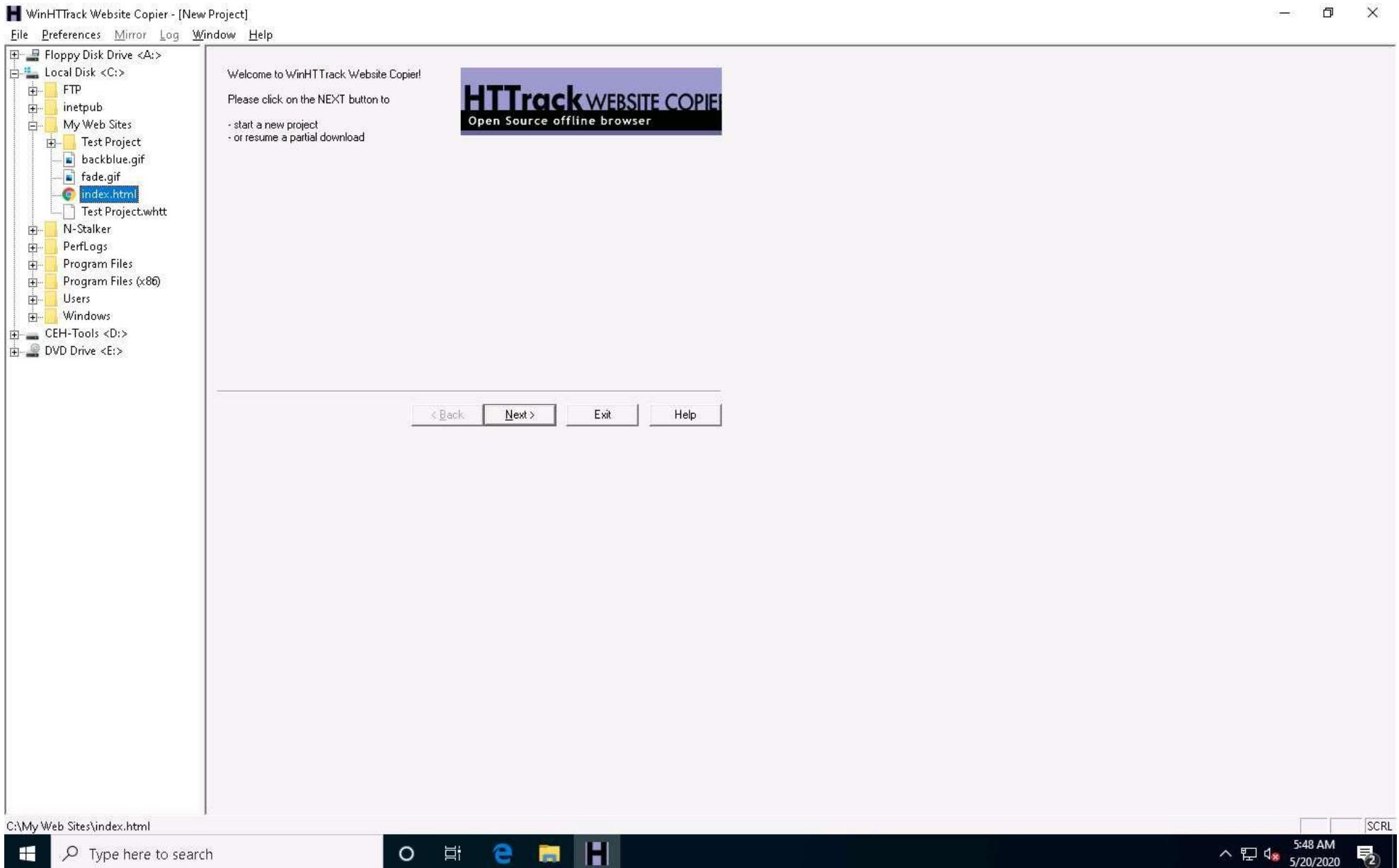


15.  Analyze all directories, HTML, images, flash, videos, and other files available on the mirrored target website. You can also check for possible exploits and vulnerabilities. The site will work like a live hosted website.

If the webpage does not open, navigate to the directory where you mirrored the website and open **index.html** with any browser.

16.  Once done with your analysis, close the browser window and click **Finish** on the **WinHTTrack** window to complete the process.





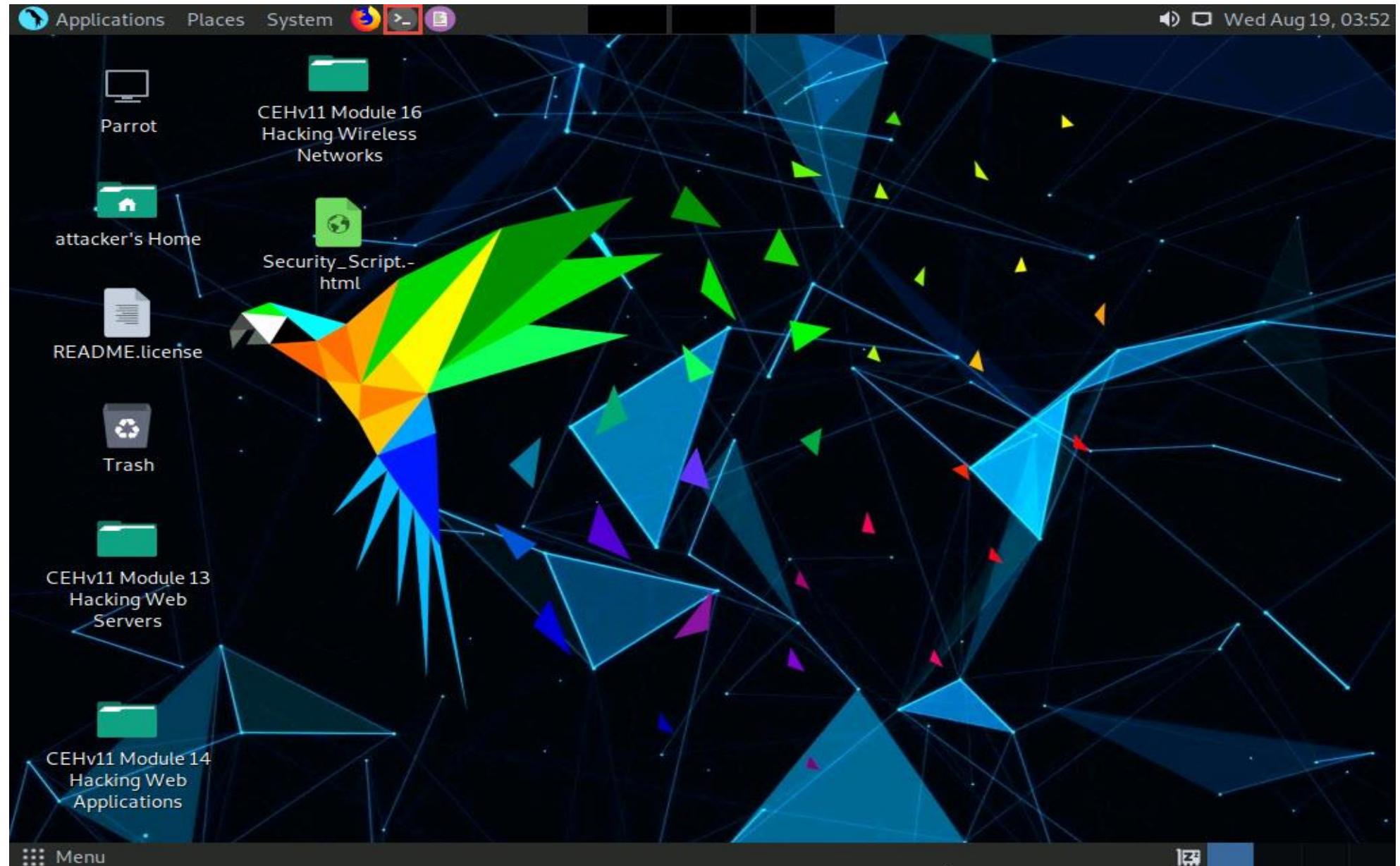
17.  Some websites are very large, and it might take a long time to mirror the complete site.
18.  This concludes the demonstration of mirroring a target website using HTTrack Web Site Copier.

19.  You can also use other mirroring tools such as **NCollector Studio** (<http://www.calluna-software.com>), **Cyotek WebCopy** (<https://www.cyotek.com>), etc. to mirror a target website.
  20.  Close all open windows and document all the acquired information.
- 

## Task 5: Gather a Wordlist from the Target Website using CeWL

The words available on the target website may reveal critical information that can assist in performing further exploitation. CeWL is a ruby app that is used to spider a given target URL to a specified depth, optionally following external links, and returns a list of unique words that can be used for cracking passwords.

1.  Click **Parrot Security** to switch to the **Parrot Security** machine.
2.  Click the **MATE Terminal** icon at the top-left corner of the **Desktop** window to open a **Terminal** window.



3.  A **Parrot Terminal** window appears. In the terminal window, type **sudo su** and press **Enter** to run the programs as a root user.
4.  In the **[sudo] password for attacker** field, type **toor** as a password and press **Enter**.

The password that you type will not be visible.

5.  Now, type **cd** and press **Enter** to jump to the root directory.

The screenshot shows the Parrot OS desktop environment. In the top right corner, there is a system tray icon for a battery. The date and time "Wed Aug 19, 03:55" are also displayed. The desktop background features a dark, geometric pattern. A terminal window titled "Parrot Terminal" is open in the top left, showing a command-line session:

```
[attacker@parrot] -[~] Module 16
└─$ sudo su      Hacking Wireless
[sudo] password for attacker:
[root@parrot] -[/home/attacker]
└─#cd
[root@parrot] -[~]
└─#
```

Below the terminal, a file browser window titled "Parrot Terminal" is visible. It shows a file structure under the root directory:

- README.license
- trash
- CEHv11 Module 13  
Hacking Web Servers
- CEHv11 Module 14  
Hacking Web Applications

The bottom of the screen features a dock with icons for "Menu", "Parrot Terminal", and other system icons.

6.  In the terminal window, type **cewl -d 2 -m 5 www.certifiedhacker.com** and press **Enter**.

**-d** represents the depth to spider the website (here, **2**) and **-m** represents minimum word length (here, **5**).

7.  A unique wordlist from the target website is gathered, as shown in the screenshot.

The minimum word length is 5, and the depth to spider the target website is 2.

The screenshot shows a Parrot OS desktop environment. The terminal window is titled "Parrot Terminal" and contains the following command:

```
[attacker@parrot] -[~] Module16
└─$ sudo su
[sudo] password for attacker:
[root@parrot] -[/home/attacker]
└─# cd
[root@parrot] -[~]
└─# cewl -d 2 -m 5 www.certifiedhacker.com
```

The output of the command is displayed below the command line:

CeWL 5.4.8 (Inclusion) Robin Wood (robin@digi.ninja) (<https://digi.ninja/>)

The terminal window has a dark background with a geometric pattern. The menu bar at the top includes "Applications", "Places", "System", and "File Edit View Search Terminal Help". The desktop icons on the left include "Slide", "Login", "Content", "Hacker", "jQuery", "Cycle", "default", "cufón", "document", "close", "member", "Register", "account", "Links", "Copyright", "Found", "Certfied", "Favorites", "Style", "sheets", "frameworks", and "utilities".

8.  Alternatively, this unique wordlist can be written directly to a text file. To do so, type **cewl -w wordlist.txt -d 2 -m 5 www.certifiedhacker.com** and press **Enter**.

**-w** - Write the output to the file (here, **wordlist.txt**)

The screenshot shows a Parrot OS desktop environment. In the top right corner, the date and time are displayed as "Wed Aug 19, 04:47". Below the desktop icons, a terminal window titled "Parrot Terminal" is open. The terminal window has a dark background with a green title bar. Inside the terminal, the command "#cewl -w wordlist.txt -d 2 -m 5 www.certifiedhacker.com" is being run. The output of the command is visible, showing the version "CeWL 5.4.8 (Inclusion) Robin Wood (robin@digi.ninja) (https://digi.ninja/)" and the command itself again. The terminal window has a blue border and is positioned over a dark, abstract background image.

```
[root@parrot]~[-]
#cewl -w wordlist.txt -d 2 -m 5 www.certifiedhacker.com
CeWL 5.4.8 (Inclusion) Robin Wood (robin@digi.ninja) (https://digi.ninja/)
[root@parrot]~[-]
#
```

9.  By default, the wordlist file gets saved in the **root** directory. Type **pluma wordlist.txt** and press **Enter** to view the extracted wordlist.

The screenshot shows a Parrot OS desktop environment. The terminal window, titled "Parrot Terminal", displays the following command and its output:

```
[root@parrot]# cewl -w wordlist.txt -d 2 -m 5 www.certifiedhacker.com
CeWL 5.4.8 (Inclusion) Robin Wood (robin@digi.ninja) (https://digi.ninja/)
[root@parrot]# pluma wordlist.txt
```

The desktop background shows a file manager window with various folders and files, including "wordlist.txt". The status bar at the bottom indicates the user is root.

10.  The file containing a unique wordlist extracted from the target website opens, as shown in the screenshot.

wordlist.txt (~) - Pluma (as superuser)

File Edit View Search Tools Documents Help

Open Save Undo

wordlist.txt x

1 Slide  
2 Login  
3 Content  
4 Hacker  
5 jQuery  
6 Cycle  
7 default  
8 cufón  
9 document  
10 close  
11 member  
12 Register  
13 account  
14 Links  
15 Copyright  
16 Found  
17 Certfied  
18 Favorites  
19 Style  
20 sheets  
21 framework  
22 utilities  
23 menus  
24 Tooltips  
25 Input  
26 Labels

Plain Text Tab Width: 4 Ln 1, Col 1 INS

Menu root Parrot Terminal wordlist.txt (~) - Pluma ...

- This wordlist can be used further to perform brute-force attacks against the previously obtained emails of the target organization's employees.
- This concludes the demonstration of gathering wordlist from the target website using CeWL.

13.  Close all open windows and document all the acquired information.