



Lab 10. Automated Attack & Penetration Tools

What are automated attacks

- Attacks targeted at websites
- Enhanced speed and efficiency
- Uses easily accessible software readily available for penetration and hacking
- Most commonly used in web application breaches for:
 - Hacking
 - Cracking
 - Theft
 - Monetary benefits

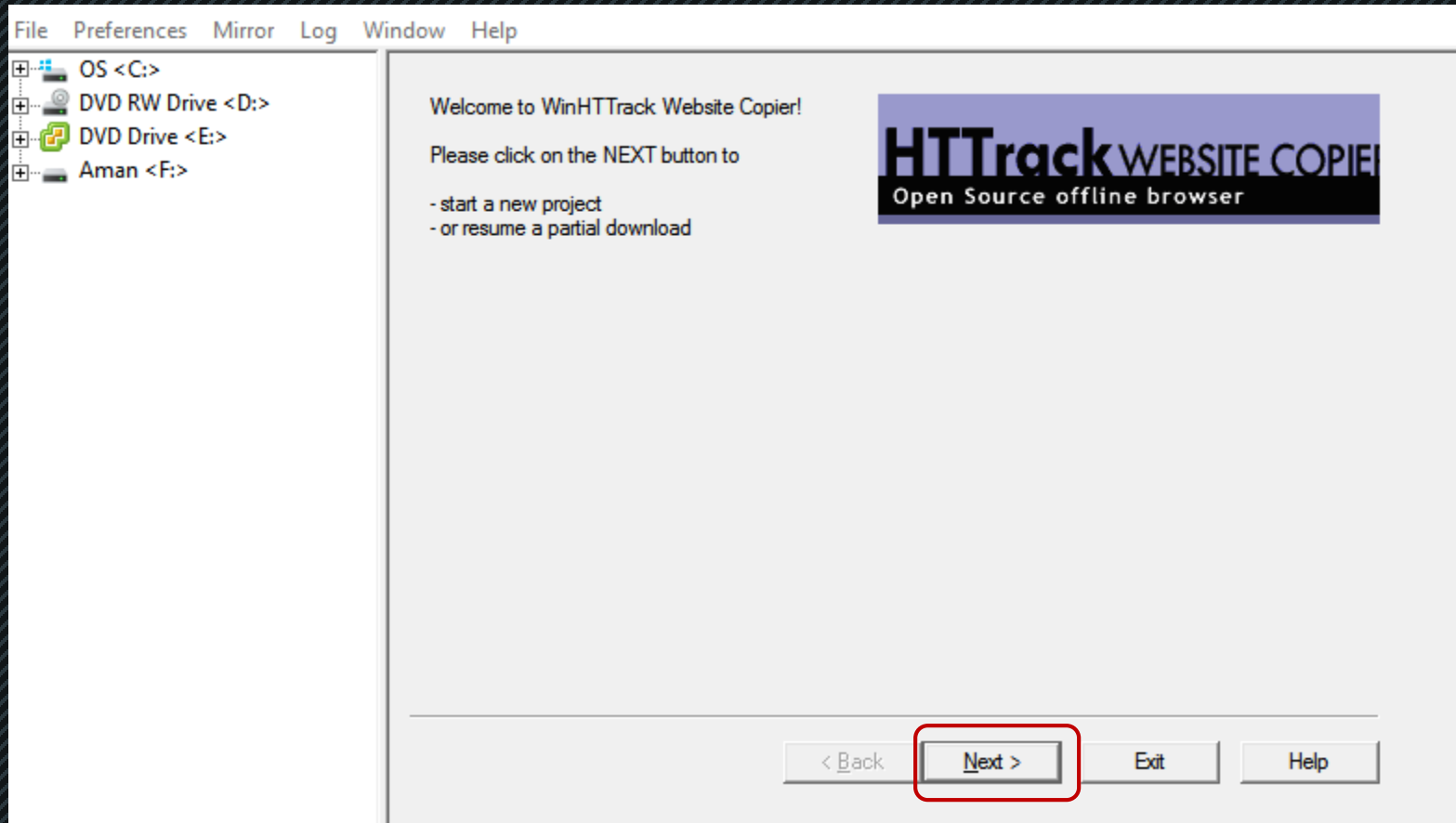
Other uses of Automated Attacks

- Allows to test the integrity of a web application.
- Intrude web-forms inside the hosted website for security verification.
- Helps in understanding the areas that need reinforcement to protect against website attacks.
- Tools that aid the automated attacks:
 - HTTrack
 - Burp site professional

Hands on with Automated Attack

- Download the HTTrack from Vdrive folder of Lab 10 OR from [here](#)
- If downloading from Vdrive, rename the file extension to <<filename>>.exe
- Install the HTTrack software with its default settings.
- Post installation launch the HTTrack software from installed programs

HTTrack (1)



– Click on Next

HTTrack (2)

New project name: TestProject

Project category: Pentesting

Info

New project

Base path: C:\My Web Sites

< Back Next > Cancel Help

- Give a name to the project
- Give a name to the category
- Click 'Next'

HTTrack (3)

- Mirroring Mode -

Enter address(es) in URL box

Action: Download web site(s)

Web Addresses: (URL) Add URL...

`http://www.altoromutual.com`

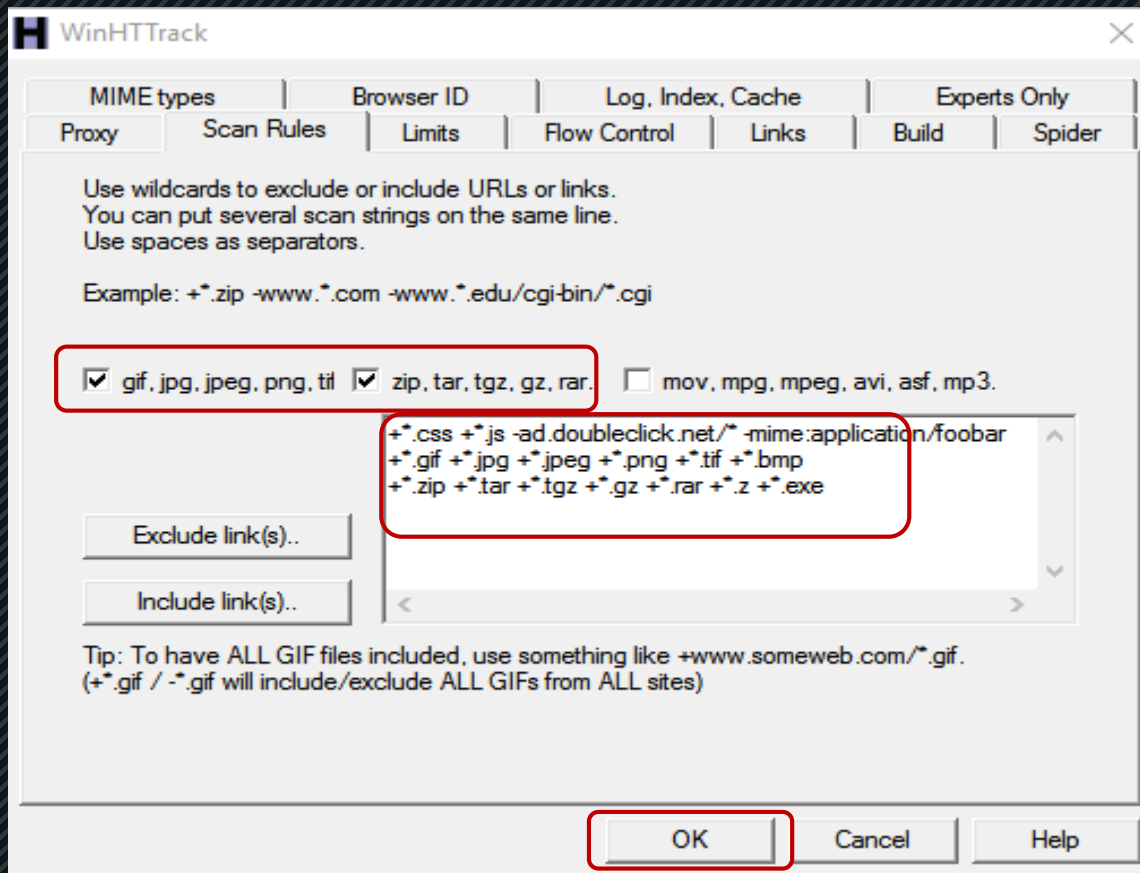
URL list (.txt): ..

Preferences and mirror options: Set options...

< Back Next > Cancel Help

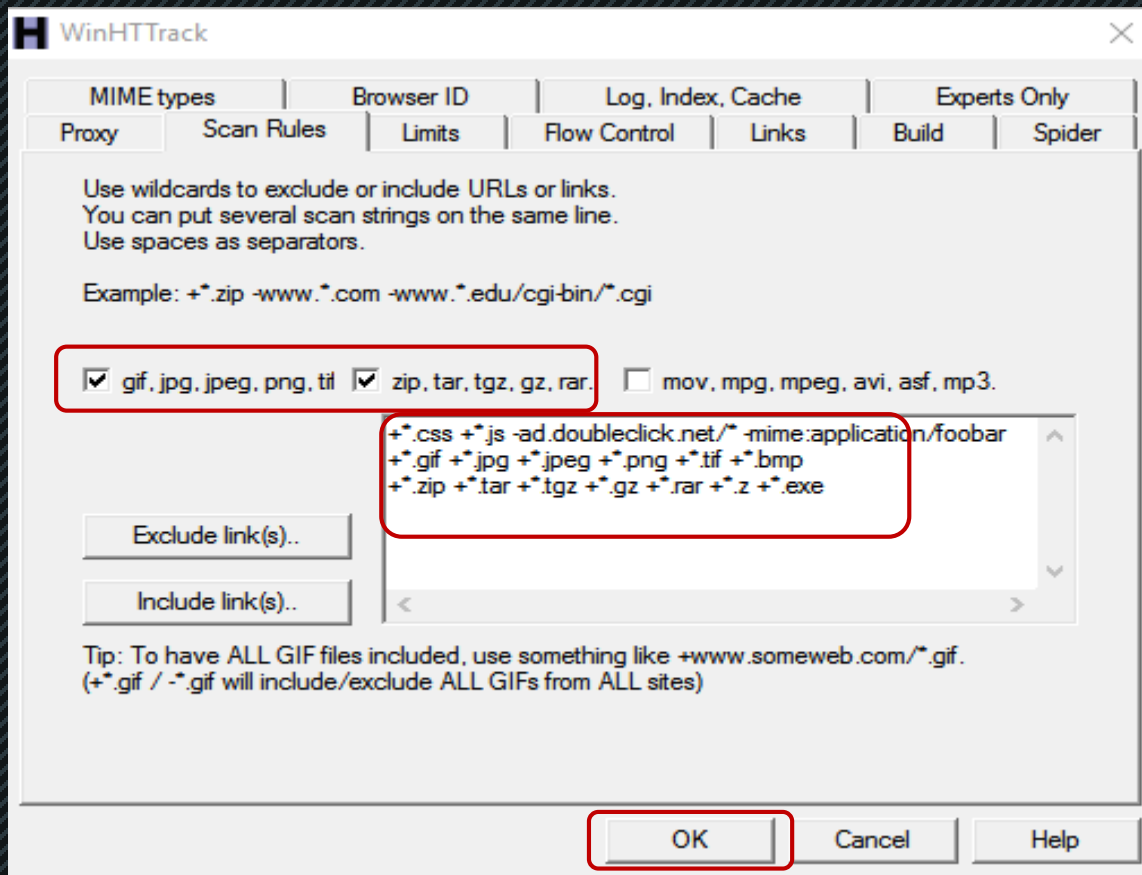
- Enter 'www.altoromutual.com' in web addresses
- Click on 'Set Options'

HTTrack (4)



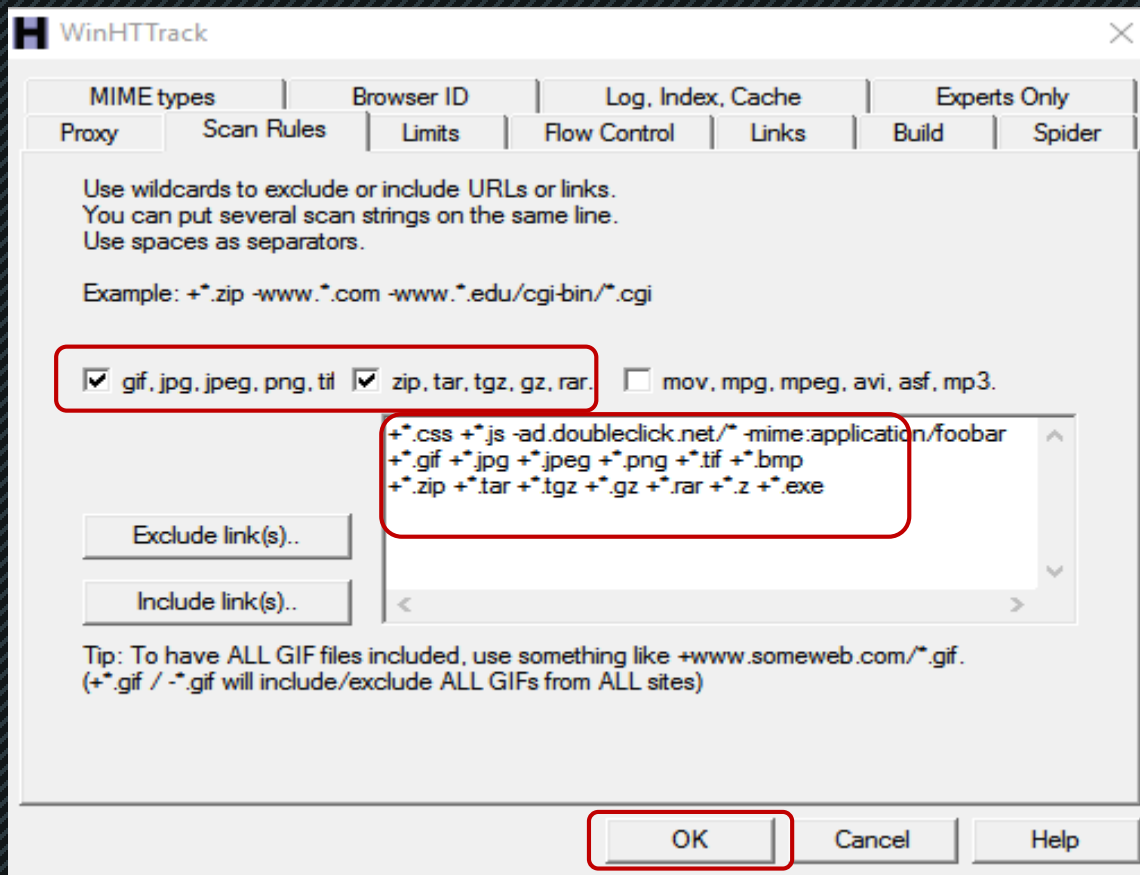
- Include all gifs and zip files on target website
- Click on 'Ok'

HTTrack (5)



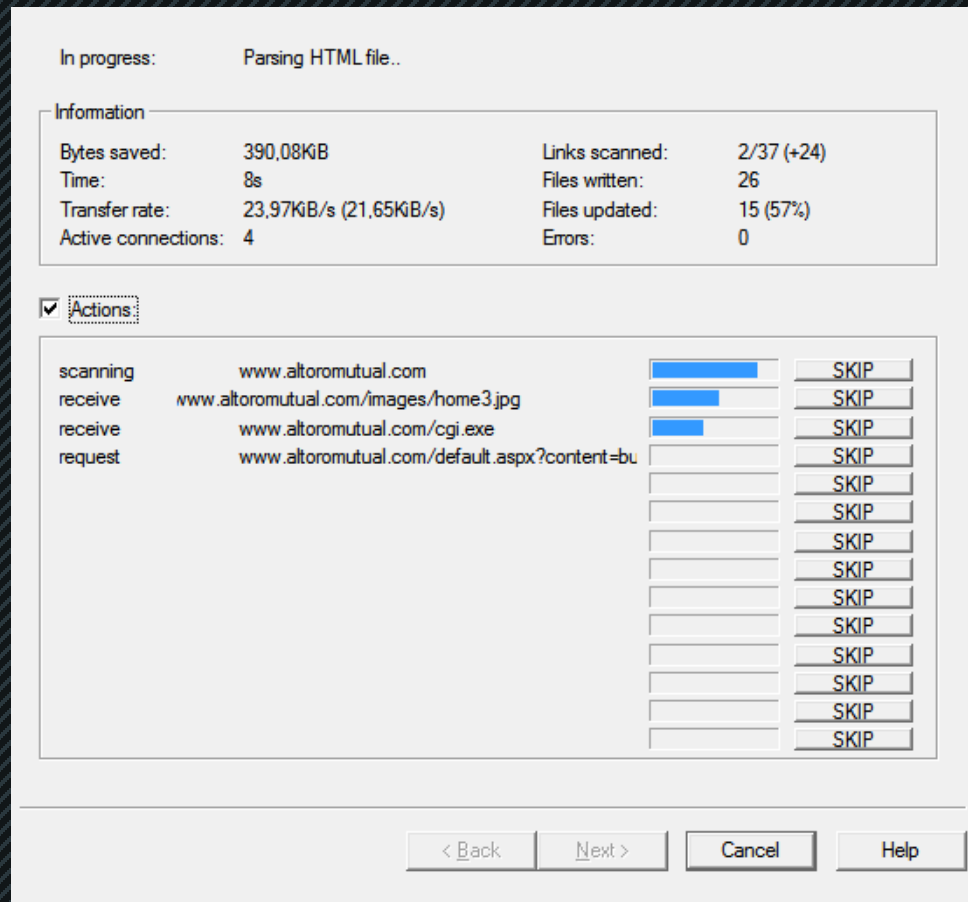
- Include all gifs and zip files on target website
- Click on 'Ok'
- *Click on 'Next' in HTT Rack window*

HTTrack (6)



- Include all gifs and zip files on target website
- Click on 'Ok'
- *Click on 'Next' in HTT Rack window*

HTTrack (7)



- HTTrack will now start mirroring the website
- Downloads all webpages as linked on target website
- *Saves the mirrored website to local disk for assessment.*

Penetration tools

- Penetration tools are categorized into:
 - *Hardware based tools*
 - *Application based tools*
 - *Programming tools*
- For testing purposes its recommended:
 - *That the testing is done with consent.*
 - *In a closed network*
 - *On nodes that don't have any sensitive data.*

Hardware based tools

– Examples:

- *PWN Plug*
- *Plugged into the network.*
- *Have built-in tools to monitor and report the network activity.*
- *Configured with apps for smartphones*
- *Enabled with wifi and Bluetooth*
- *Downside: expensive*
- *Inexpensive Alternative: WRT65G programmable accesspoint*



Software Based tools

– Examples:

- *Nmap Scanner*
 - *Just not a port scanner*
 - *Comes with extensive instruction manuals*
- *Metasploit*
- *Nessus*
- *Wireshark – Network Sniffer / Protocol Analyzer*
- *Microsoft Network Monitor*
- *Microsoft Message Analyzer*
- *KISMET*
- *AirCrack –NG (part of Kali Linux)*
- *John the Ripper / Rainbow Crack Software*
- *Knoppix*

Questions