

FALL SEMESTER 2023-24

LAB ASSESSMENT -3

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Course Name:- <u>Information Security Analysis and Audit Lab BCSE353E</u>

Slot:- <u>L57+L58</u>

Date:- <u>04-07-2023</u>

EXERCISE 3-A-1: Static Malware Analysis

I. AIM: Performing Static Malware Analysis using PeStudio.

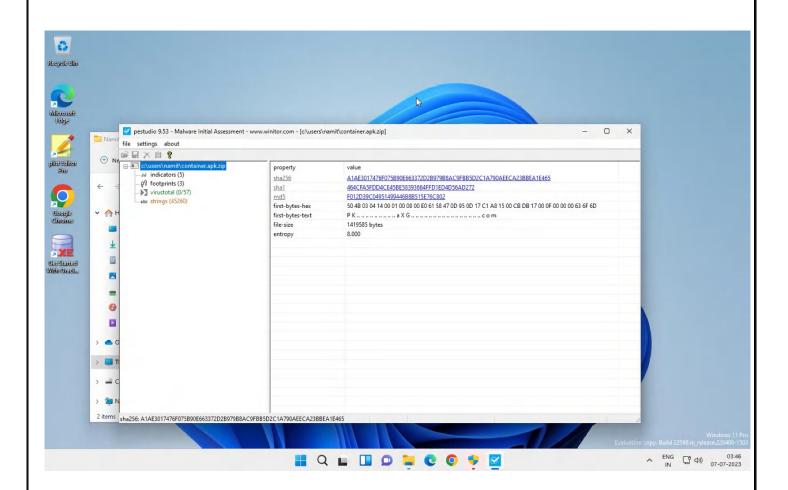
II. TOOLS REQUIRED:

Products: PeStudio in Windows 11
 Internet browser: Microsoft Edge

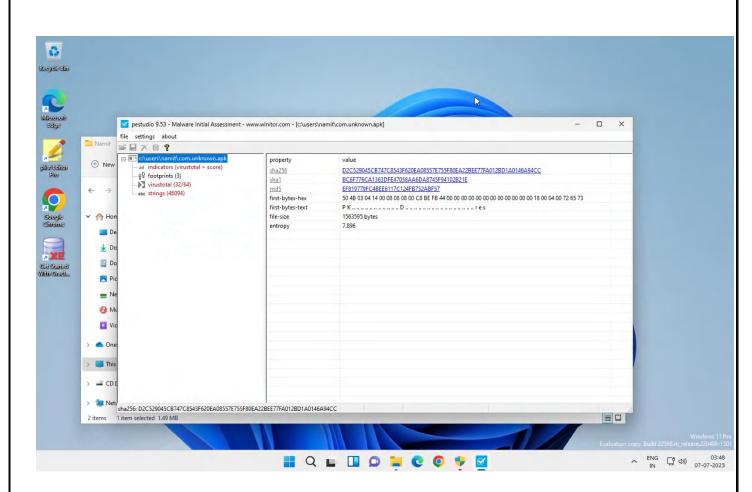
3. Manufacturer: various

III. STEP BY STEP PROCEDURE:

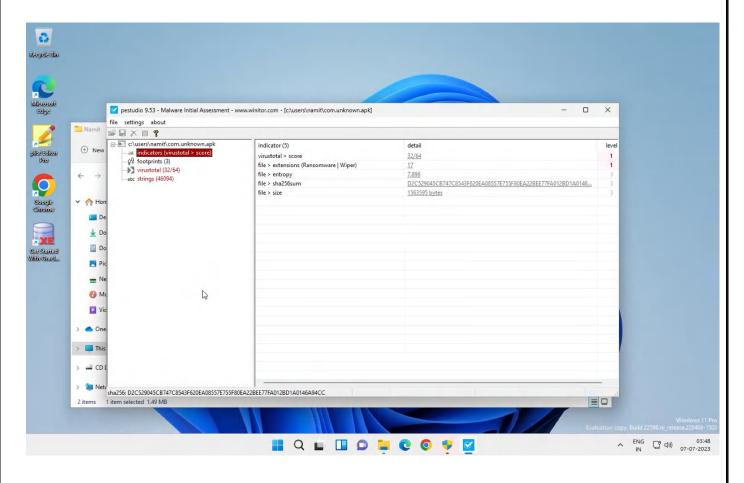
- 1. Download the container.apk.zip file from the given link.
- 2. Open PeStudio.
- 3. Open the container.apk.zip as a zip file in PeStudio.



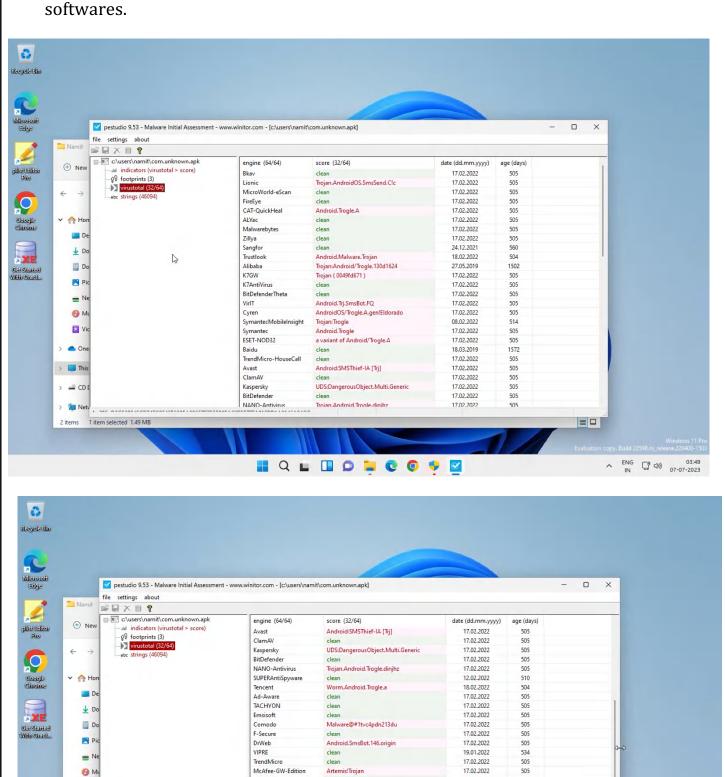
4. Now Extract The contents of the Zip File(The Actual apk file) Contents into a folder and open the folder using PeStudio.



5. The Indicator Section shows malicious behavior detected in the file.



6. The VirusTotal Section shows the scan of the given file from various antivirus softwares.



Sophos Avast-Mobile

Jiangmin

Antiv-AVL

Kingsoft

Microsoft

Gridinsoft

> Netv | Arcabit | Arcabit | Sha256: D2C529045CB747C8543F620EA08557E755F80EA22BEE77FA012BD1A0146A94CC

Andr/SmsSend-FA

clean

Android:SMSThief-IA [Trj]

ANDROID/Trogle.FHCF.Gen

Trojan:Script/Wacatac.B!ml

📕 Q 🖿 🔲 🗩 📜 🙋 🏮 👎

Trojan/Generic.ASMalwAD.4DB

Android.Troj.XXshenqi.b.(kcloud)

Vic

> This

619

505

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505

17.02.2022

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17.02.2022

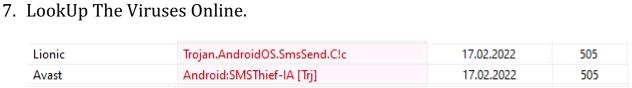
17.02.2022

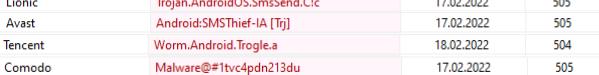
17.02.2022

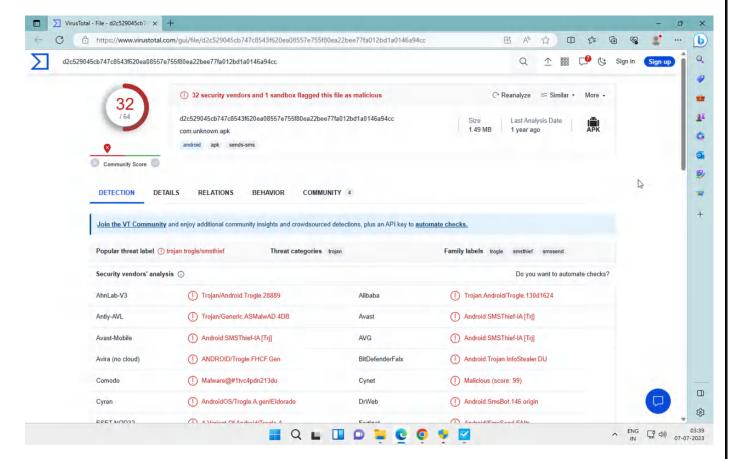
18.02.2022

17.02.2022

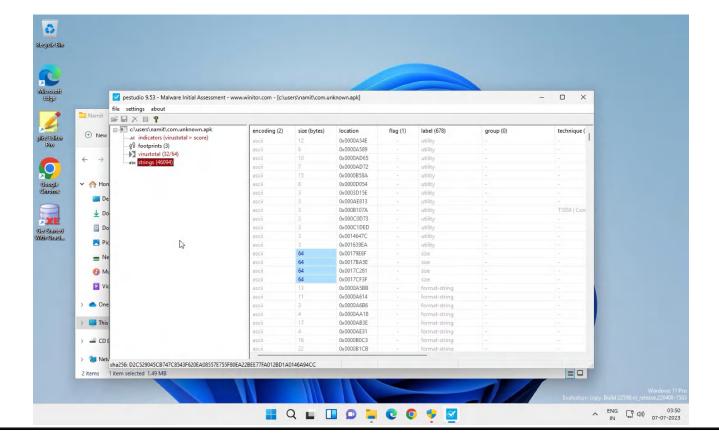
17.02.2022







8. The Strings Section shows the actual contents of the file.



IV. OBSERVATIONS:

a.)

1. Indicators like

- a. File> extension (Ransomware>Wiper)>count 17 is a level 1 threat thus it is confident malicious indicator.
- b. Strings>flags 8 ,level 1 threat thus it is a confident malicious indicator.
- c. Other indicators like file size etc are level 3 threats thus they are not confident malicious indicators

b.)

- 2. File is flagged as a Trojan (an application that poses to be useful but will actually harm the system) by Lionic, Avast etc.
- 3. It is flagged as a Worm by Tencent
- 4. It is flagged as a malware by Comodo
- 5. The age of all these rating is <360 i.e., these scans were done not more than a year ago.

V. INFERENCES:

- 1. The given "container.apk" file is not safe as it has some confident malicious indicators like extensions and flags.
- 2. It is also marked malicious by famous Antivirus Softwares like Avast, Quick Heal etc.
- 3. It is flagged as Trojan, Worm and Malware by these antivruses in the Virus Total list.

EXERCISE 3-B-1: Web Application Attacks

I. AIM: Analyse the website <u>www.megacorp.one</u> using Firefox (browser) developer tools in Kali Linux.

II. TOOLS REQUIRED:

1. Products: developer tools in Kali Linux

Internet browser: Firefox
 Manufacturer: various

III. STEP BY STEP PROCEDURE:

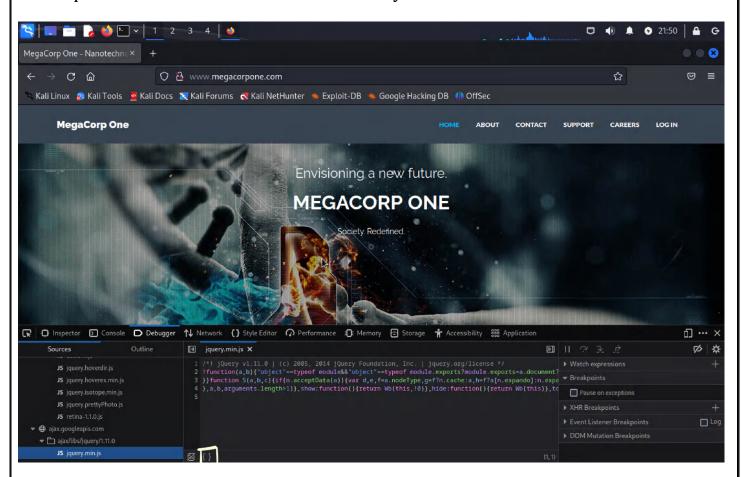
- 1. Web applications can be written in a variety of programming languages and frameworks, each of which can introduce specific types of vulnerabilities. However, the most common vulnerabilities are similar in concept, regardless of the underlying technology stack.
- 2. We will discuss web application vulnerability enumeration and exploitation. Although the complexity of vulnerabilities and attacks vary, we will demonstrate the exploitation of several common web application vulnerabilities listed in the OWASP Top 10 list.237 These attack vectors will serve as the basic building blocks used to construct more advanced attacks.
- 3. As a first step, we should gather information about the application. What does the application do? What language is it written in? What server software is the application running on? The answers to these and other basic questions will help guide us towards our first (or next) potential attack vector. As with many penetration testing disciplines, the goal of each attempted attack or exploit is to increase our permissions within the application or pivot to another application or target.
- 4. Each successful exploit along the way may grant access to new functionality or components within the application. We may need to successfully execute several exploits to advance from an unauthenticated user account access to any kind of shell on the system. Enumeration of new functionality is important each step of the way especially since attacks that previously failed may succeed in a new context. As penetration testers, we must continue to enumerate and adapt until we've exhausted all attack avenues or compromised the system.

- 5. It is important to identify the components that make up a web application before attempting to blindly exploit it. Many web application vulnerabilities are technology-agnostic.
- 6. Exploits and payloads need to be crafted based on the technological underpinnings of the application, such as the database software or operating system. Before launching any attacks on a web application, we should attempt to discover the technology stack in use, which generally consists of the following components:
 - Programming language and frameworks
 - Web server software
 - Database software
 - Server operating system
- 7. Firefox since it is the default browser in Kali Linux for in **inspecting urls**, File extensions, which are sometimes a part of a URL, can reveal the programming language the application was written in. Some of these, like .php, are straightforward, but other extensions are more cryptic and vary based on the frameworks in use. For example, a Java-based web application might use .jsp, .do, or .html.
- 8. File extensions on web pages are becoming less common since many languages and frameworks now support the concept of routes, which allow developers to map a URI to a section of code. Applications leveraging routes use logic to determine what content is returned to the user and make URI extensions largely irrelevant.
- 9. Although <u>Inspecting Page Content</u> by URL inspection can provide some clues about the target web application, most context clues can be found in the source of the web page. The Firefox Debugger tool (found in the Web Developer menu or by pressing C B k) displays the page's resources and content, which varies by application. The Debugger tool may display JavaScript frameworks, hidden input fields, comments, client-side controls within HTML, JavaScript, and much more.

IV. OBSERVATIONS:

10. We can see that the application running on www.megacorpone.com uses jQuery238 version 1.11.0, a common JavaScript library. In this case, the developer minified239 the code, making it more compact and conserving resources but making it somewhat difficult to read.

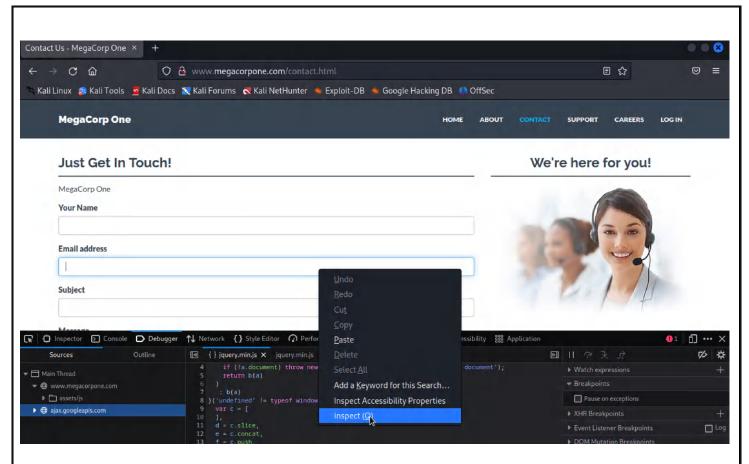
Fortunately, we can "prettify" code within Firefox by clicking on the Pretty print source button with the double curly braces:



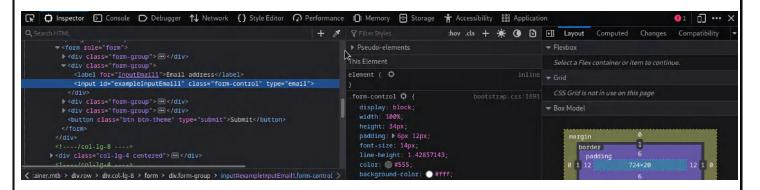
11. After clicking the icon, Firefox will display the code in a format that is easier to read and follow:



12. We can also use the Inspector tool to drill down into specific page content. Let's use Inspector to examine the email input element from the "Contact" page by right-clicking the email address field on the page and selecting Inspect Element or using the shortcut Page Up.

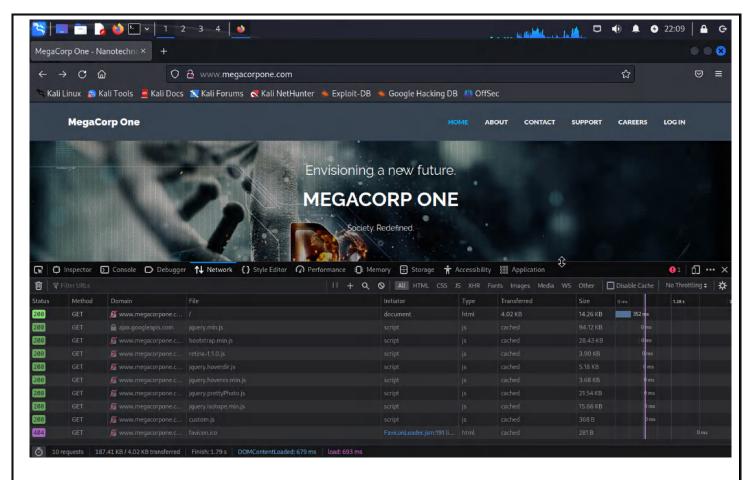


13. This will open the Inspector tool and highlight the HTML for the element we right-clicked on.

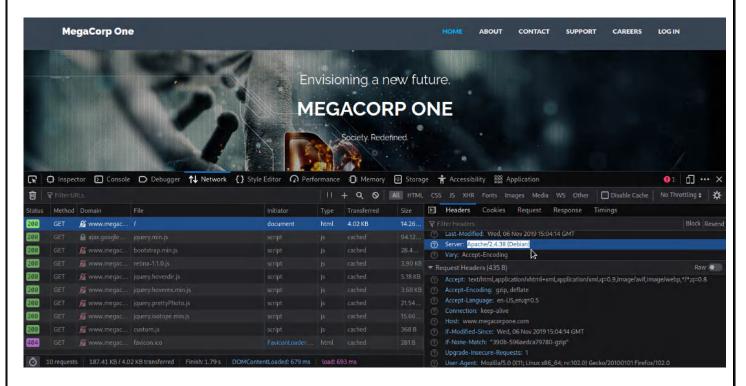


This tool is especially useful for quickly finding hidden form fields in the HTML source.

14. <u>Viewing Response Headers</u> - We can also search server responses for additional information. There are two types of tools we can use to accomplish this task. The first type of tool is a proxy, which intercepts requests and responses between a client and a webserver. We will explore proxies later in this module, but first we will explore the Network tool, launched from the Firefox Web Developer menu, to view HTTP requests and responses. This tool shows network activity that occurs after it launches, so we must refresh the page to see traffic.



We can click on a request to get more details about it, in this case the response headers:



The "Server" header displayed above will often reveal at least the name of the web server software. In many default configurations, it also reveals the version number. Headers that start with "X-" are non-standard HTTP headers.240 The names or values often reveal additional information about the technology stack used by the application. Some examples of nonstandard headers include X-Powered-By, x-amz-cf-id, and X-Aspnet-Version. Further research into these names could reveal additional information, such as the "x-amz-cf-id" header, which indicates the application uses Amazon CloudFront.

- 15. **Inspecting Sitemaps** -Web applications can include sitemap files to help search engine bots crawl and index their sites. These files also include directives of which URLs not to crawl. These are usually sensitive pages or administrative consoles–exactly the sort of pages we are interested in.
- 16. The two most common sitemap filenames are robots.txt and sitemap.xml.

For example, we can retrieve the robots.txt file from www.google.com with curl:

```
namitmehrotra@kali: ~
File Actions Edit View Help
  -(namitmehrotra⊛kali)-[~]
$ curl https://www.google.com/robots.txt
User-agent: *
Disallow: /search
Allow: /search/about
Allow: /search/static
Allow: /search/howsearchworks
Disallow: /sdch
Disallow: /groups
Disallow: /index.html?
Disallow: /?
Allow: /?hl=
Disallow: /?hl=*&
Allow: /?hl=*&gws_rd=ssl$
Disallow: /?hl=*&*&gws_rd=ssl
Allow: /?gws_rd=ssl$
Allow: /?pt1=true$
Disallow: /imgres
Disallow: /u/
Disallow: /preferences
Disallow: /setprefs
Disallow: /default
Disallow: /m?
Disallow: /m/
Allow: /m/finance
Disallow: /wml?
```

Allow and Disallow are directives for web crawlers indicating pages or directories that "polite" web crawlers may or may not access, respectively. Although the listed pages and directories in most cases may not be interesting and some may even be invalid, sitemap files should not be overlooked as they may contain clues about the website layout or other interesting information.

17. <u>Locating Administration Consoles</u>- Web servers often ship with remote administration web applications, or consoles, which are accessible via a particular URL and often listening on a specific TCP port.

Two common examples are the manager241 application for Tomcat and phpMyAdmin242 for MySQL hosted at /manager/html and /phpmyadmin respectively.

While these consoles can be restricted to local access or may be hosted on custom TCP ports, we often find them externally exposed by default configurations. Regardless, as penetration testers we should check the default console locations, identified in the application server software documentation. In the following section, we will also demonstrate tools that can be used to automate the search for these consoles and in a later section we will demonstrate exploitation techniques.

V. INFERENCES:

- 1. Based on the experiment conducted to analyze the website www.megacorp.one using Firefox developer tools in Kali Linux, several inferences can be drawn.
- 2. Firstly, the utilization of Firefox developer tools in Kali Linux allowed for comprehensive inspection and examination of the website's underlying code, network traffic, and performance metrics.
- 3. This provided valuable insights into the website's structure, potential vulnerabilities, and overall functionality. Furthermore, the experiment likely enabled the identification of any errors, bugs, or security loopholes present in the website, contributing to the enhancement of its overall security and user experience.
- 4. The combination of Firefox developer tools and Kali Linux proved to be a powerful combination for proficiently dissecting and understanding the technical aspects of the website www.megacorp.one.

EXERCISE 3-B-2: Web Application Assessment Tools using DIRB tool

I. AIM: To implement Web Application Assessment using DIRB tool in Kali Linux. Analyse the website www.megacorp.one using DIRB tool in Kali Linux.

II. TOOLS REQUIRED:

1. Products: DIRB tool in Kali Linux

2. Internet browser: Firefox

3. Manufacturer: various

III. STEP BY STEP PROCEDURE:

- 1. There are a variety of tools that can aid in discovering and exploiting web application vulnerabilities, many of which come pre-installed in Kali. In this section, we will explore some of these tools including a few simple browser extensions and in a later section we will shift our focus to manual vulnerability enumeration and exploitation.
- **2.** DIRB243 is a web content scanner that uses a wordlist to find directories and pages by issuing requests to the server. DIRB can identify valid web pages on a web server even if the main index page is missing.
- **3.** By default, DIRB will identify interesting directories on the server but it can also be customized to search for specific directories, use custom dictionaries, set a custom cookie or header on each request, and much more.

IV. OBSERVATIONS:

4. Let's run DIRB on www.megacorpone.com. We will supply several arguments: the URL to scan, -r to scan non-recursively, and -z 10 to add a 10 millisecond delay to each request:

```
namitmehrotra@kali: ~
File Actions Edit View Help
 —(namitmehrotra⊕kali)-[~]
 -$ dirb http://www.megacorpone.com -r -z 10
DIRB v2.22
By The Dark Raver
START TIME: Thu Jul 6 23:03:31 2023
URL_BASE: http://www.megacorpone.com/
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt
OPTION: Not Recursive
SPEED_DELAY: 10 milliseconds
GENERATED WORDS: 4612

    Scanning URL: http://www.megacorpone.com/ -

+ http://www.megacorpone.com/admin (CODE:403|SIZE:284)
⇒ DIRECTORY: http://www.megacorpone.com/assets/
+ http://www.megacorpone.com/index.html (CODE:200|SIZE:14603)
 ⇒ DIRECTORY: http://www.megacorpone.com/old-site/
+ http://www.megacorpone.com/robots.txt (CODE:200|SIZE:43)
+ http://www.megacorpone.com/server-status (CODE:403|SIZE:284)
END_TIME: Thu Jul 6 23:40:52 2023
DOWNLOADED: 4612 - FOUND: 4
  -(namitmehrotra⊕kali)-[~]
<u>$</u>
```

5. According to the output in Listing 281, DIRB made 4,612 requests and reported the URL, status code, and size of nine distinct resources. By default, the tool will recurse into newly-discovered directories, but in this case, our non-recursive (-r) scan simply reports directories without descending into them. Obviously, we could begin with a non-recursive scan against a large target and recursively search interesting directories, or begin with a full recursive scan depending on our needs.

V. INFERENCES:

- 1. By conducting a web application assessment using the DIRB tool in Kali Linux to analyze the website www.megacorp.one, several inferences can be made.
- 2. Firstly, the DIRB tool's utilization allowed for the identification of hidden directories or files on the website that were not easily accessible through standard navigation.
- 3. This discovery could potentially reveal sensitive information or indicate poor security practices, thereby highlighting areas of concern for the website's administrators.
- 4. Additionally, the use of the DIRB tool enabled the detection of common web vulnerabilities, such as misconfigured or improperly protected directories, which could be exploited by malicious actors.
- 5. This assessment process served as an effective means of proactively identifying and addressing security weaknesses, ultimately helping to enhance the overall security posture of www.megacorp.one.

EXERCISE 3-B-3:Web Application Assessment using Burp Suite

I. AIM: To implement the Web Application Assessment using Burp Suite in Kali Linux and Analyse the website www.megacorp.one using Burp Suite in Kali Linux.

II. TOOLS REQUIRED:

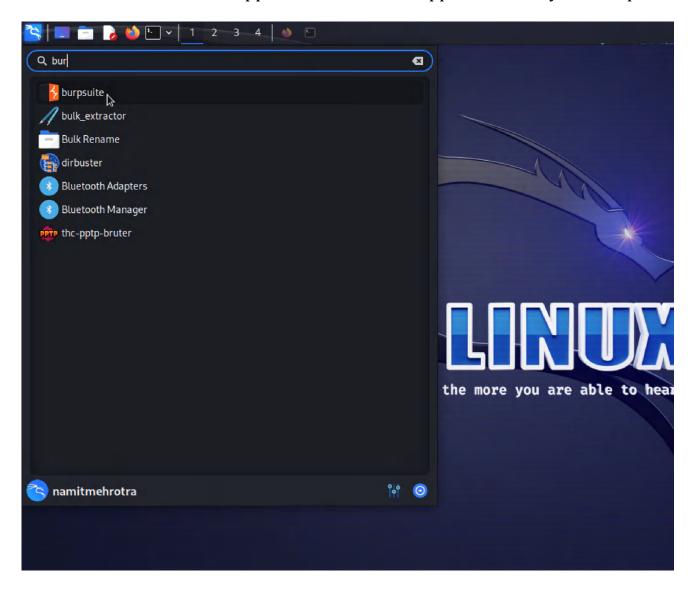
1. Products: Burpsuite tool in Kali Linux

2. Internet browser: Firefox

3. Manufacturer: various

III. STEP BY STEP PROCEDURE:

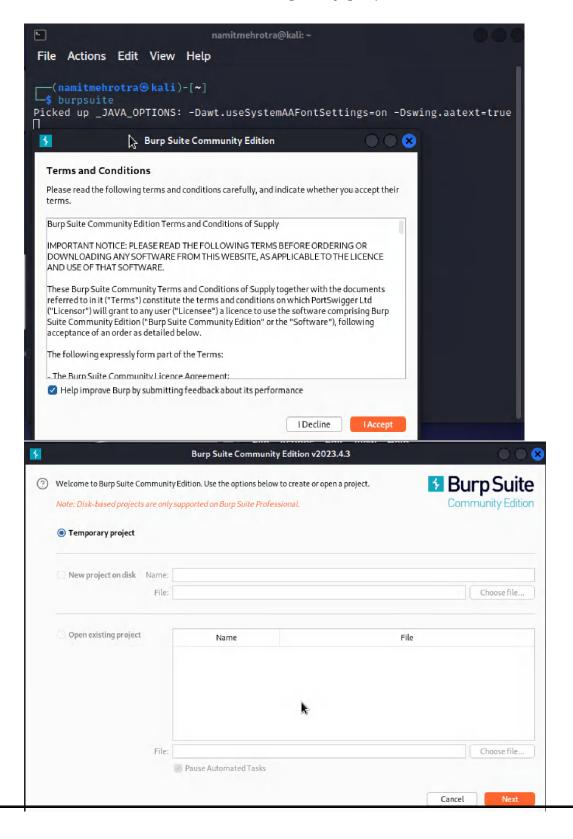
1. We can find it in Kali under Applications > 03 Web Application Analysis > burpsuite.



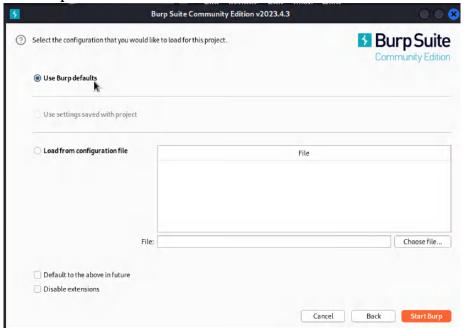
2. We can also launch it from the command line with burpsuite:



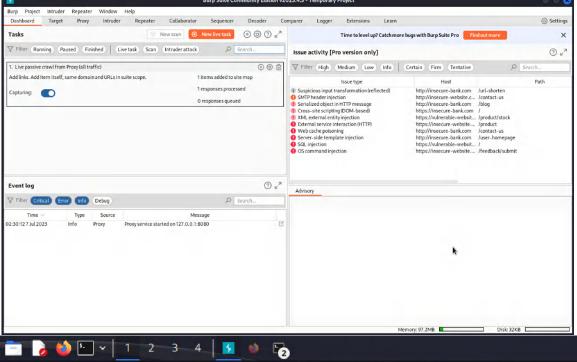
Once it launches, we'll choose Temporary project and click Next.

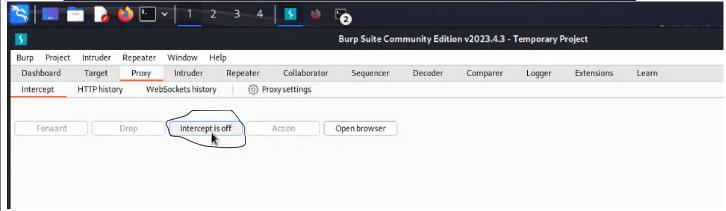


3.In the next screen, choose the option to setup Burp using Burp defaults, and then press "Start Burp.

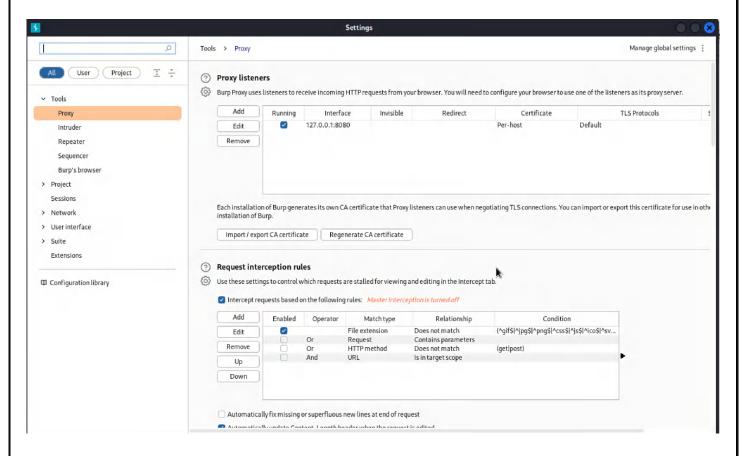


4. Once Burp Suite is opened, you will see a lot of tabs and other information. For now, all we will be worrying about is the Proxy tab, so you can navigate there now. Burp Suite recently updated to include its own built-in browser for using the local proxy with, which means we no longer must configure our browser to work with Burp manually and turn intercept mode off.





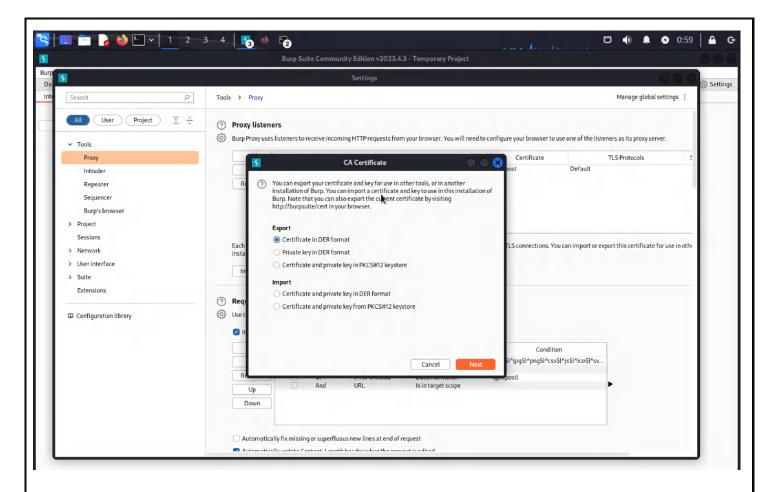
5. Next, we can review the proxy listener settings. The Options sub-tab shows what ports are listening for proxy requests.

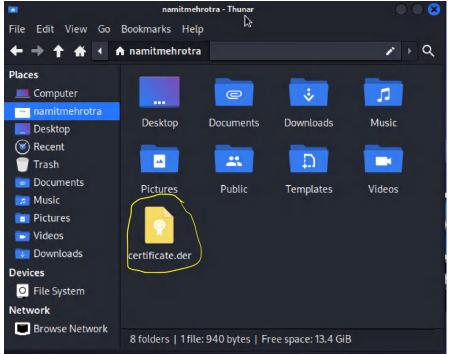


6. By default, Burp Suite enables a proxy listener on localhost:8080. This is the host and port that our browser must connect to in order to proxy traffic through Burp Suite. We will leave these default settings. The Intercept tool is enabled at start up in Burp Suite's default configuration. We can check this setting under User options > Misc > Proxy Interception. However, many users prefer to disable Intercept on startup, which can be done by selecting Always disable. Either way, we can still manually toggle Intercept on and off through Proxy > Intercept > Intercept is on/off.

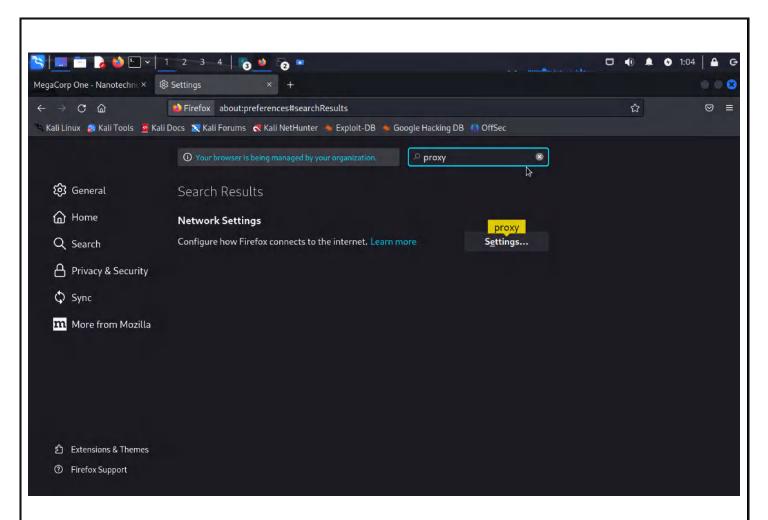
3	Default Proxy interception state
6	Use this setting to choose whether Burp Proxy interception is enabled when you start Burp.
	○ Enable interception
	Disable interception
	Restore the settings that was selected in the Proxy > Intercept tab when Burp closed

7. We will begin by learning how to use Burp with Firefox. Navigate to the proxy tab, and then to the options tab. Then, click on "Import/export CA Certificate". This is thecertificate which will allow our browser to trust Burp Suite. Then, browse to a location on your Kali VM where you want to save the file. It is important that, when you are saving the file, you save it with a .der extension, otherwise the file won't import correctly into Firefox.

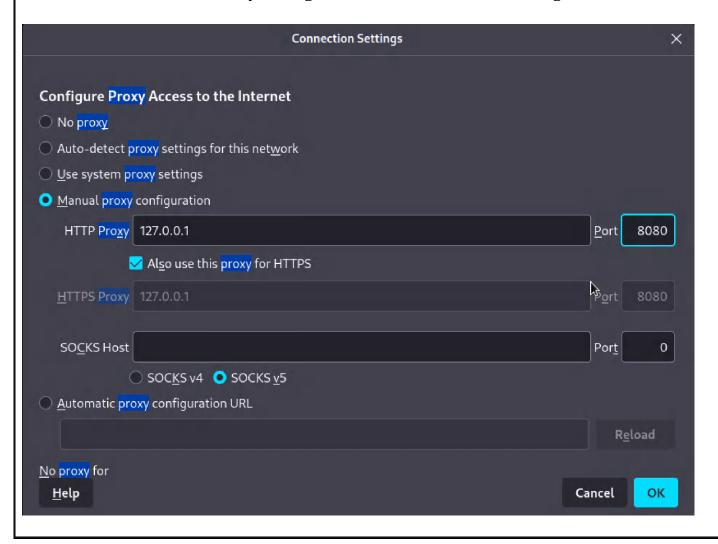




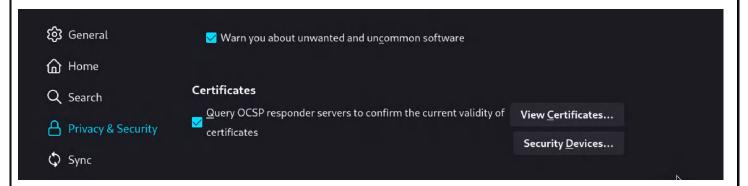
8. Once this is done, open Web Browser (Firefox) in Kali and navigate to the options. Find "proxy" in Preferences' search box. Click on the button called "Settings" under Network Settings.

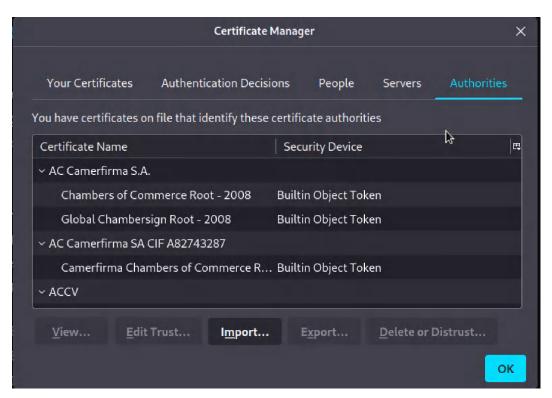


9. Then, click Manual Proxy Configuration and enter the following details:



10. Once this is done, navigate to the Privacy & Security tab and then to the Certificates section. This is where we will import the certificate from Burp we saved earlier. To do this, press on "View Certificates" and click on "Import".







11. Great, Firefox is now configured to work with burp! To test it out, open Burp and Firefox. Ensure Intercept mode is turned ON, and search something in Firefox. If Burp Suite is not intercepting requests, you may have to navigate back to the proxy page. A pop-up might appear asking you to set up a listener. Simply press enable and Burp should then work properly. Your request should be captured in Burp Suite for you to manipulate or examine.

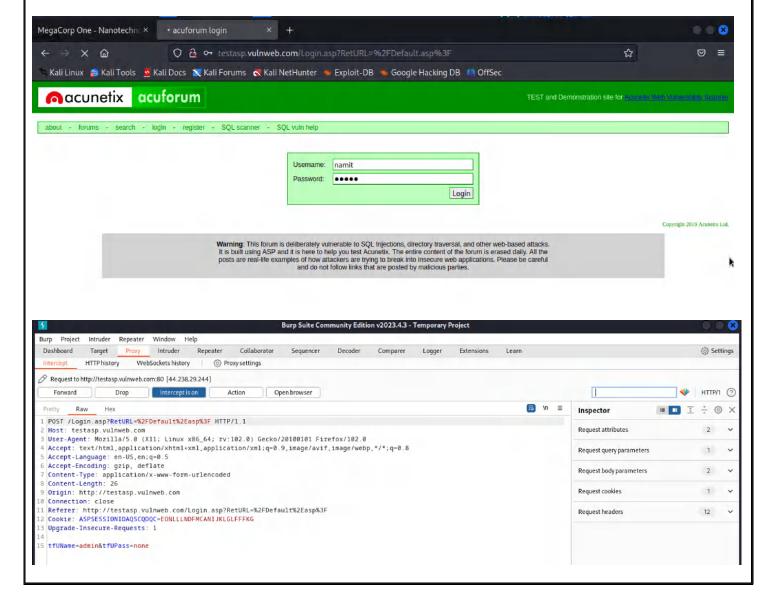
IV. OBSERVATIONS:

12. Now, we will learn how to use Burp to intercept browser network traffic.

Once the web browser opens, navigate to the following site:

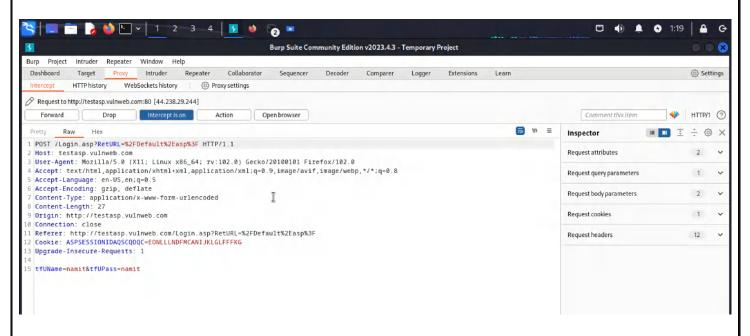
http://testasp.vulnweb.com/Login.asp?RetURL=%2FDefault%2Easp%3F

Once there, go back to Burp and turn ON intercept mode. Then, enter any username and password combination into the site and click "Login". As you will see, the page will remain in a loading state. This is because Burp has now intercepted the request we sent to the server, and is holding it for us to manipulate.

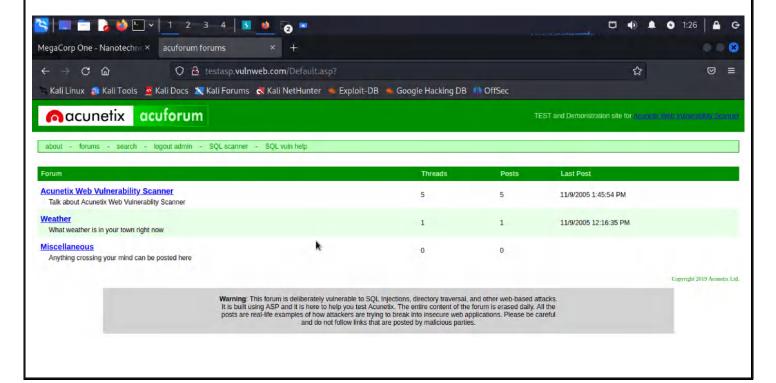


```
Referer: http://testasp.vulnweb.com/Login.asp?RetURL=%2FDefault%2Easp%3F
Cookie: ASPSESSIONIDAQSCQDQC=EONLLLNDFMCANIJKLGLFFFKG
Upgrade-Insecure-Requests: 1
tfUName=namit&tfUPass=namit
```

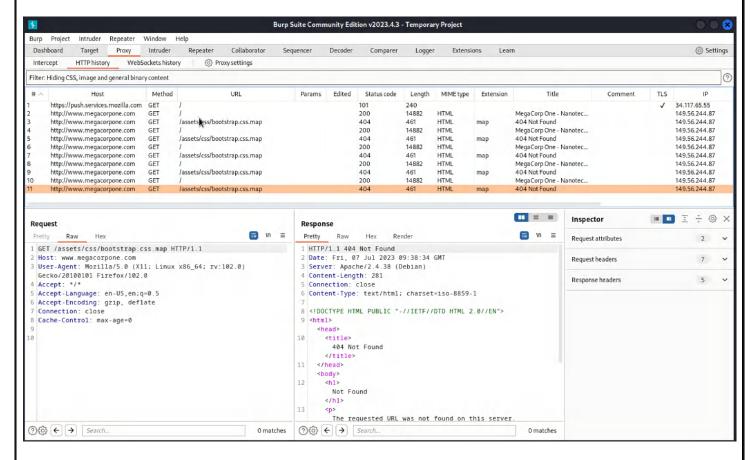
13. Go back to Burp and you will find the intercepted request, along with the username and password data that we entered. To navigate through the different requests Burp is intercepting, simply press the "Forward" button to send the request to the server and view the next request.



Referer: http://testasp.vulnweb.com/Login.asp?RetURL=%2FDefault%2Easp%3F
Cookie: ASPSESSIONIDAQSCQDQC=EONLLLNDFMCANIJKLGLFFFKG
Upgrade-Insecure-Requests: 1
tfUName=admin&tfUPass=none

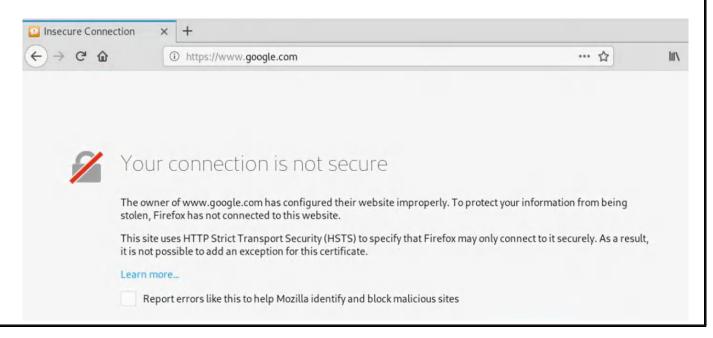


14. With the proxy enabled, we can close any extra open tabs and browse to http://www.megacorpone.com. We should see traffic in BurpSuite under Proxy > HTTP History.



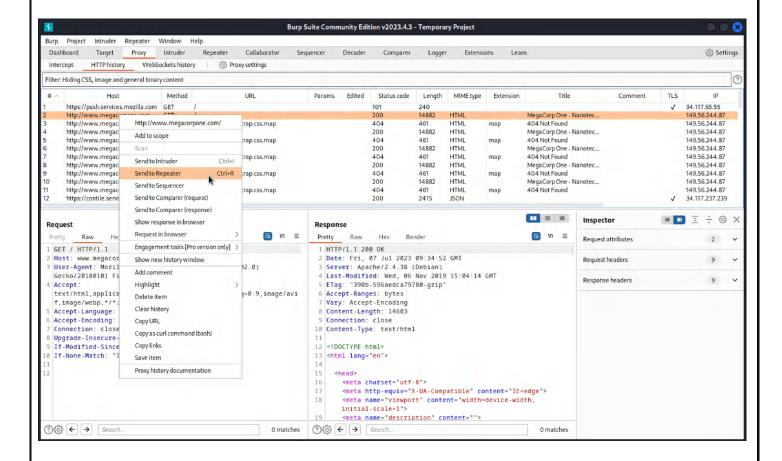
15. If the browser hangs while loading the page, Intercept may be enabled. Switching it off will allow the traffic to flow uninterrupted. As we browse to additional pages, we should see more requests in the HTTP History tab.

At this point, Firefox is now proxying all of its traffic through Burp Suite. Up to this point, we've only looked at cleartext HTTP traffic. However, if we browse an HTTPS site while proxying traffic through Burp (such as https://www.google.com), we'll be presented with an "invalid certificate" warning:

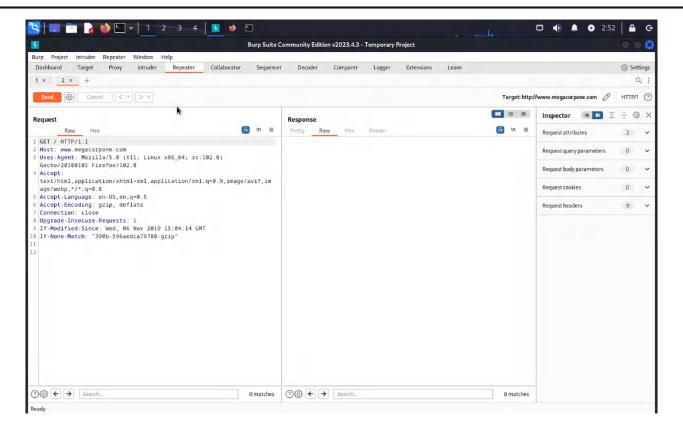


Burp can easily decrypt HTTPS traffic by generating its own SSL/TLS certificate, essentially manin-the-middling247 ourselves in order to capture the traffic. These warnings can be irritating but we can prevent them by issuing a new certificate and importing it into Firefox.

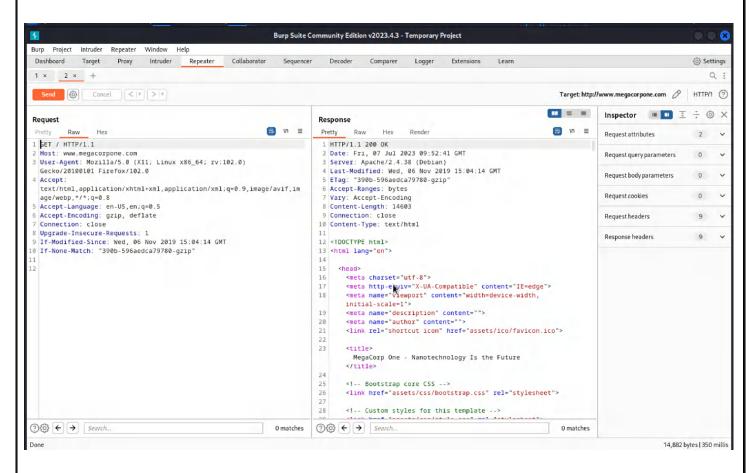
16. With the Repeater tool, we can easily modify requests, resend them, and review the responses. To see this in action, we can right-click a request from Proxy > HTTP History and select Send to Repeater.



17. If we click on Repeater, we will have one sub-tab with the request on the left side of the window. We can send multiple requests to Repeater and it will display them on separate tabs. We can send the request to the server by clicking Send.



18. Burp Suite will display the raw server response on the right side of the window, which includes the response headers and unrendered response content.



19. Web application exploitation often requires a great deal of trial and error as we submit and modify requests and monitor the responses. Repeater is very useful for this as we can quickly tweak elements of the request and resend them without waiting for our browser to render every response.

V. INFERENCES:

- 1. By conducting a web application assessment using Burp Suite in Kali Linux to analyze the website www.megacorp.one, several inferences can be drawn.
- 2. Firstly, Burp Suite's intercepting proxy feature allowed for the thorough examination of HTTP requests and responses, providing insights into the website's underlying structure, communication patterns, and potential vulnerabilities.
- 3. This allowed for the identification of security weaknesses such as cross-site scripting (XSS), SQL injection, or insecure direct object references (IDOR), which could be exploited by malicious actors. Additionally, the active scanning capabilities of Burp Suite aided in the automated discovery of common vulnerabilities and misconfigurations within the website, enhancing the efficiency and effectiveness of the assessment process.
- 4. The comprehensive reporting functionality of Burp Suite further facilitated the communication of identified vulnerabilities to the website administrators, enabling prompt remediation actions. Overall, the use of Burp Suite in Kali Linux provided a robust framework for analyzing the website www.megacorp.one, helping to enhance its security posture and protect against potential threats.

EXERCISE 3-B-4: Web Application Assessment using Nikto tool

I. AIM: Analyse the website www.megacorp.one using Nikto tool in Kali Linux.

II. TOOLS REQUIRED:

1. Products: Nikto tool in Kali Linux

2. Internet browser: Firefox

3. Manufacturer: various

III. STEP BY STEP PROCEDURE:

- 1. Nikto248 is a highly configurable Open Source web server scanner that tests for thousands of dangerous files and programs, vulnerable server versions and various server configuration issues. It performs well, but is not designed for stealth as it will send many requests and embed information about itself in the User-Agent249 header.
- 2. Nikto can scan multiple servers and ports and will scan as many pages as it can find. On sites with heavy content, such as an ecommerce site, a Nikto scan can take several hours to complete. We have two options to control the scan duration. The simplest option is to set the -maxtime option, which will halt the scan after the specified time limit. This does not optimize the scan in any way. Nikto will simply stop scanning. Our second option is to tune250 the scan with the -T option.
- 3. We can use this feature to control which types of tests we want to run. There are times when we do not want to run all the tests built in to Nikto, such as verifying if a certain class of vulnerabilities is present. Tuning a scan is invaluable in these situations.
- 4. Nikto is especially useful for catching low-hanging fruit, reporting non-standard server headers, and catching server configuration errors.
- 5. To demonstrate this, let's run Nikto against www.megacorpone.com. We'll specify the host we want to scan (host=http://www.megacorpone.com) and for the sake of this demonstration, we'll use -maxtime=30s to limit the scan duration to 30 seconds:

IV. OBSERVATIONS:

```
F
                            namitmehrotra@kali: ~
File Actions Edit View Help
  -(namitmehrotra⊗kali)-[~]
s nikto -host=http://www.megacorpone.com -maxtime=30s
 Nikto v2.5.0
+ Multiple IPs found: 149.56.244.87, 64:ff9b::9538:f457
                    149.56.244.87
+ Target IP:
+ Target Hostname:
                    www.megacorpone.com
 Target Port:
                    80
 Start Time:
                     2023-07-07 06:11:59 (GMT-7)
+ Server: Apache/2.4.38 (Debian)
+ /: The anti-clickjacking X-Frame-Options header is not present. See: https:
//developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options
+ /: The X-Content-Type-Options header is not set. This could allow the user
agent to render the content of the site in a different fashion to the MIME ty
pe. See: https://www.netsparker.com/web-vulnerability-scanner/vulnerabilities
/missing-content-type-header/
+ ERROR: Host maximum execution time of 30 seconds reached
+ Scan terminated: 0 error(s) and 2 item(s) reported on remote host
                     2023-07-07 06:12:30 (GMT-7) (31 seconds)
+ End Time:
+ 1 host(s) tested
  –(namitmehrotra⊛kali)-[~]
```

Although we limited the scan duration, the output in Listing 283 still provided some interesting information. For example, it identified that the version of Apache running on the server is out of date and past its end-of-life.

We have only demonstrated a fraction of the tools available in Kali Linux in this brief introduction, but the tools we have covered so far will serve us well for the demonstrations that follow in the rest of the module.

V. INFERENCES:

- 1. Analyzing the website <u>www.megacorp.one</u> using the Nikto tool in Kali Linux provided valuable insights into its security posture.
- 2. Nikto's scanning capabilities uncovered common vulnerabilities, misconfigurations, and outdated software versions, highlighting potential weaknesses that could be exploited. The detection of server-side vulnerabilities, such as insecure CGI scripts, helped identify possible attack vectors.
- 3. By generating detailed reports, Nikto facilitated effective communication of these findings to the website administrators for timely remediation.
- 4. This analysis with Nikto in Kali Linux proved instrumental in assessing and enhancing the overall security of www.megacorp.one, fortifying it against potential threats.