



Sri Lanka Institute of Information Technology

Vulnerability Assessment – Web Audit

<https://www.tiktok.com>

Individual Assignment
IE2062 – Web Security

Submitted by:

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I also want to thank Ms. Chethna Lyanapathirana, Ms. Lanisha Ruggahakotuwa and Ms. Chathu Udagedra for the help and guidance they have given us during this Web audit.

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1. INTRODUCTION

1.1. What is a Vulnerability Assessment?

Vulnerability assessment is a testing procedure used to recognize and allocate extreme levels within a given time to a variety of safety defects. This evaluation method could include manual and automated techniques that are consistent in various levels and concentrate on complete coverage. Vulnerability assessments may also be able to target various technology layers using a risk-based approach, with network, host and application layer evaluation being the most common.

In addition to concentrating on the security, an organization should also regularly evaluate the security levels of its web applications using two main methods when talking about the design of a web application:

1. Web vulnerability assessment
2. Web application penetration testing

By assessing the web vulnerability, we will automatically detect vulnerabilities by crawling on the website and then report these results to identify possible vulnerabilities. There are many tools available to perform this role for open source scanners and commercial vulnerability scanners. A rigorous safety examination has much of the same procedures as a penetration test, but the outcomes of the tests do also differ greatly.

The penetration tests of web applications are conducted to a more comprehensive exercise, using both automated and manual methods, for example interactive tools and scripts. Vulnerabilities are explicitly observed and an attempt to exploit them is also made in a penetration test.

The method of reconnaissance, mapping, finding, and exploiting vulnerabilities includes a penetration test. As mentioned previously, vulnerability assessments and penetration tests almost follow the same method as:

1. Reconnaissance

- In this process , information on the web app is collected through indirect and direct methods, such as web search results inspecting, DNS recording and other information available.

2. Mapping

- This process deals with website uploading and device setup identification deficiencies.

3. Discovery

- In this process, vulnerabilities such as SQL Injection, Cross-Site Scripting (XSS) and Cross-Site Request Forgery (CSRF) are discovered. At this stage, a vulnerability assessment is completed but the penetration test entails another step.

4. Exploitation

- In this step, the detected vulnerabilities will be used to simulate attacks in the real world.

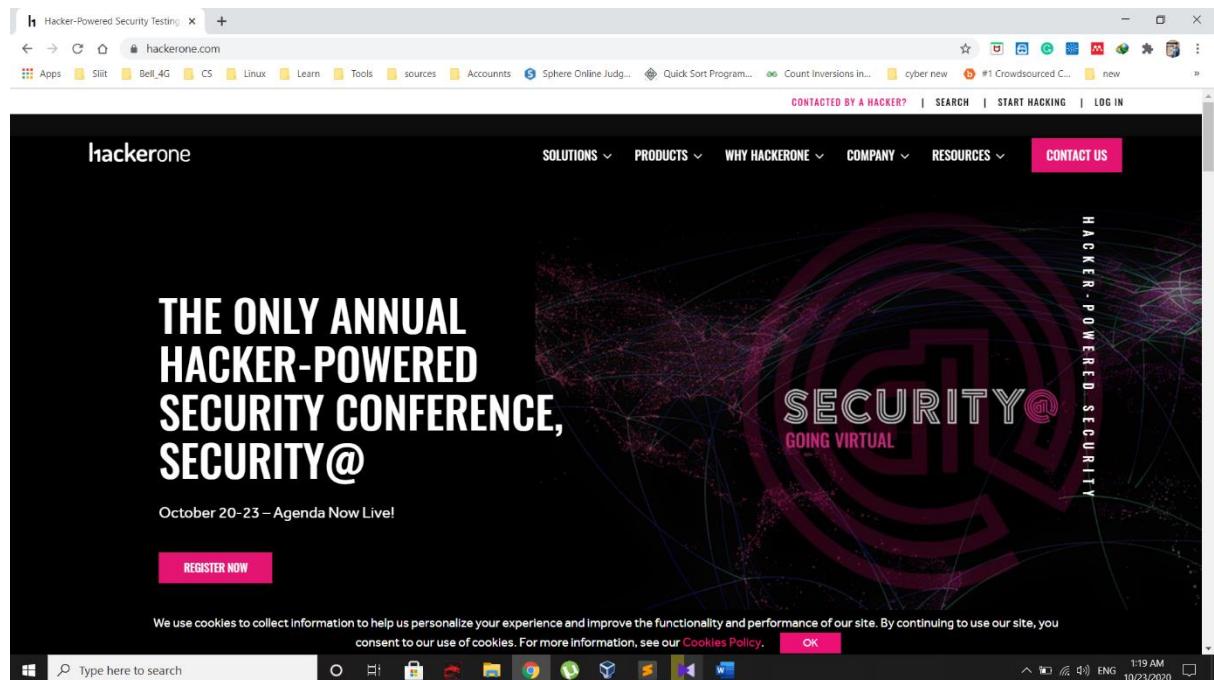
1.2. Select a Bug Bounty program

1.2.1. Choose a Platform

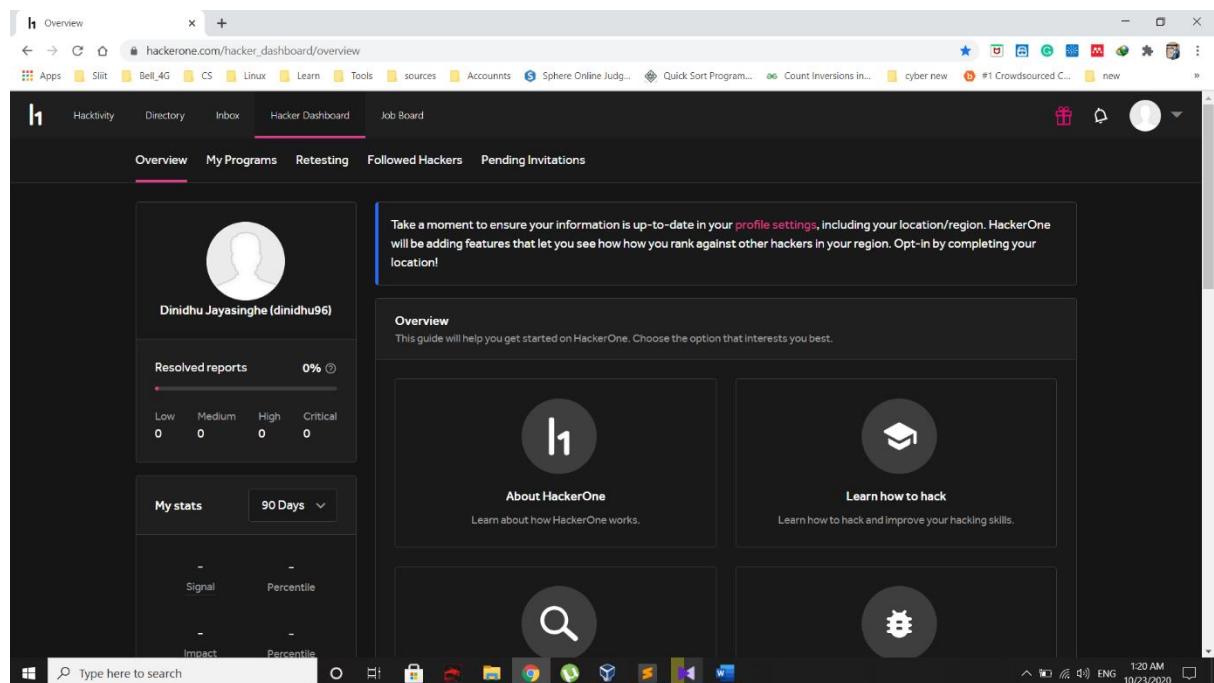
In accordance with the assignment requirements, we received a platform with active bug bounty programs introduced on this platform. I have mentioned a few of them below.

- Hackerone
- Bug Crowd
- Cobalt
- Synack
- Facebook
- Google

I chose a hackerone platform to pick a domain after due consideration because I was using already and had a reasonably clear exposure and how this platform operates.



HackerOne is a bug bounty site that links companies and computer security scientists to penetrating testing machinery. It was one of the first organizations to include and utilize crowd-sourced security and cyber security researchers as a pillar of Synack and Bugcrowd's business model. By May 2020, \$100 million in grants were paid by HackerOne network.



1.2.2. Choose a Domain

We can view the list of domains sorted in different program roles and types on www.hackerone.com in **hacktivity** tab.

The screenshot shows the HackerOne interface with the 'Hacktivity' tab selected. On the left, there are filters for 'Sort' (set to 'Popular'), 'Type' (set to 'All'), and 'Filter' (set to 'Hackers I am following'). The main area displays a list of vulnerabilities:

Rank	Vulnerability Description	Reporter	Status	Bounty	Disclosed	
57	HTTP Request Smuggling at app.workbox.dk	By zeop to Vismä Public	Resolved	High	\$500.00	2 days ago
23	mb_strlower (UTF-32LE): stack-buffer-overflow at php_unicode_tolower_full (CVE-2020-7065)	By anatoliq to PHP (IBB)	Resolved	High		about 1 day ago
8	[www.drive2.ru] Insufficient Security Configurability - Email notification is not being sent while changing passwords	By what_web to DRIVE.NET, Inc.	Resolved	Low		2 hrs ago
6	User sensitive information disclosure	By a_yang to Shopify	Resolved	Medium	\$1,000.00	2 hrs ago
2	Undocumented 'fileCopy' GraphQL API	By ash_hnz to Shopify	Resolved	Medium	\$2,000.00	about 1 hr ago
18	Broken OAuth leads to change photo profile users.	By uOpattern to Dropbox	Resolved	Low	\$512.00	2 days ago
	Java: CWE-749 Unsafe resource loading in Android WebView leading to injection attacks					

And I choose <https://tiktok.com> domain for do this assessment.

The screenshot shows the TikTok Bug Bounty Program page on HackerOne. At the top, it displays the TikTok logo and the URL hackerone.com/tiktok?type=team. To the right, there is a 'Submit report' button and information about the program: 'Bug Bounty Program Launched on Oct 2020', 'Managed by HackerOne', and 'Bounty splitting enabled'. Below this, there are sections for 'Rewards' and 'Response Efficiency'.

Rewards

Critical (Minimum)	High (Minimum)	Medium (Minimum)	Low (Minimum)
\$6,900	\$1,700	\$200	\$50
Critical (9.0 - 10.0) High (7.0 - 8.9) Medium (4.0 - 6.9) Low (0.1 - 3.9)			
\$6,900-14,800	\$1,700-6,900	\$200-1,700	\$50-200

Response Efficiency

8 hrs	Average time to first response
2 days	Average time to triage
18 days	Average time to bounty
29 days	

We encourage security researchers to focus their efforts on finding security vulnerabilities demonstrating meaningful

1.2.3. About chosen Domain

This is the how they gave rewards for <https://www.tiktok.com>

The screenshot shows the hackerOne platform interface for the TikTok bug bounty program. It includes sections for Rewards (Critical, High, Medium, Low minimum rewards), Response Efficiency (8 hrs average time to first response, 2 days average time to triage, 18 days average time to bounty, 29 days average time to resolution, 99% of reports meeting response standards), and Program Statistics (\$48,066 total). A sidebar lists various domains under the 'In Scope' section.

Rewards	Response Efficiency
Critical (Minimum) \$6,900	8 hrs
High (Minimum) \$1,700	Average time to first response
Medium (Minimum) \$200	2 days
Low (Minimum) \$50	Average time to triage
Critical (9.0 - 10.0) \$6,900-\$14,800	18 days
High (7.0 - 8.9) \$1,700-\$6,900	Average time to bounty
Medium (4.0 - 6.9) \$200-\$1,700	29 days
Low (0.1 - 3.9) \$50-\$200	Average time to resolution
99% of reports Meet response standards	
Based on last 90 days	
Program Statistics	
Updated Daily	
\$48,066	

In hackerOne platform every domain has some rules and guideline. In case this domain also has that rules and guidelines also. And they gave a scope of vulnerable domains under the **tiktok.com**

The screenshot shows the hackerOne platform interface displaying the scope of vulnerable domains for TikTok. It lists various sub-domains under the *.tiktok.com domain, all categorized as Critical and Eligible for bounty.

Scope
In Scope
Domain *.tiktok.com Critical Eligible
Domain business.tiktok.com Critical Eligible
Domain ads.tiktok.com Critical Eligible
Domain tiktok.com Critical Eligible
Domain careers.tiktok.com Critical Eligible
Domain creatormarketplace.tiktok.com Critical Eligible
Domain *.tiktokv.com Critical Eligible
Domain developers.tiktok.com Critical Eligible

1.3. Open Web Application Security Project (OWASP)

1.3.1. What is OWASP?

OWASP is an online community that produces articles, methodologies, documents, tools and innovations that can be freely used in the field of web security for applications.

1.3.2. OWASP - TOP 10

OWASP Top 10 is a list of top 10 vulnerabilities for the most popular applications. Their threats, impacts and countermeasures are also seen. The newest OWASP vulnerability list has been revised every three to four years in 2018.

1. Injection

- Untrusted data are sent to an interpreter as part of a command or query when injection faults such as SQL, NoSQL, OS, and LDAP injection occur. The hostile data of the attacker can trick the translator into unintended command execution or access to data without proper consent

2. Broken Authentication

- Authentication and session management application functions are frequently incorrectly implemented to allow attackers to compromise passwords, keys or session tokens or to exploit other implementing flaws to temporarily or permanently assume other user identities.

3. Sensitive Data Exposure

- Numerous web apps and APIs do not secure sensitive information properly, such as financial, healthcare and PII. Attackers can steal or change weakly protected information to commit credit card fraud, identification theft or other crimes. Without extra security, confidential data, such as rest or transit encryption, can be compromised and special preventions are needed when shared with the browser.

4. XML External Entities (XXE)

- In XML documents, many older or badly designed XML processors analyze external entity references. Foreign entities can use a URI handler, internal file shares, intern port scanning, remote code output, and denial of service attacks to expose internal data.

5. Broken Access Control

- Restrictions on the permissions of authenticated users are typically not properly applied. Attackers may use these defects to access unauthorized data and/or functionalities, including access to the accounts of other users, display confidential files, modify data of other users, alter rights of access, etc.

6. Security Misconfiguration

- The most widely seen problem is security misconfiguration. This is also triggered by unstable default settings, incomplete or Ad hoc settings, open cloud storage, HTTP headers that have been malfunctioning, and verbose error messages that contain confidential details. It is not only important to configure all operating systems, frameworks, libraries, and applications safely, they also need to be patched / upgraded promptly.

7. Cross-Site Scripting XSS

- XSS vulnerabilities occur any time an application contains unconfident information on a new page without sufficient validation or escape or updates an existing web page using a browser API that can generate HTML or JavaScript with data given to the user. XSS allows attackers to run scripts on the browser of the victim that can hijack user sessions, deface websites or redirect the individual to the malicious websites.

8. Insecure Deserialization

- Uncertain deserialization also results in execution of remote code. Deserialization errors may be used for assault purposes, including replays, injection assaults, and escalation rights, even though they do not result in remote code execution.

9. Using Components with Known Vulnerabilities

- The same rights extend to elements such as libraries, frameworks, and other software modules. When a weak part is used, a server loss or server extreme takeover may be facilitated. Applications and APIs using known vulnerable components will weaken application defenses and allow for a variety of attacks and impacts.

10. Insufficient Logging & Monitoring

- Logging and monitoring insufficiencies combined with missing or ineffective integration with response incidents allow an attacker to attack more systems, keep persistence, swing more systems and exploit, extract or kill data. Most violation studies indicate a breach period of over 200 days, usually detected by third parties instead of internal processes and monitoring.

1.3.3. Usage of OWASP for this project

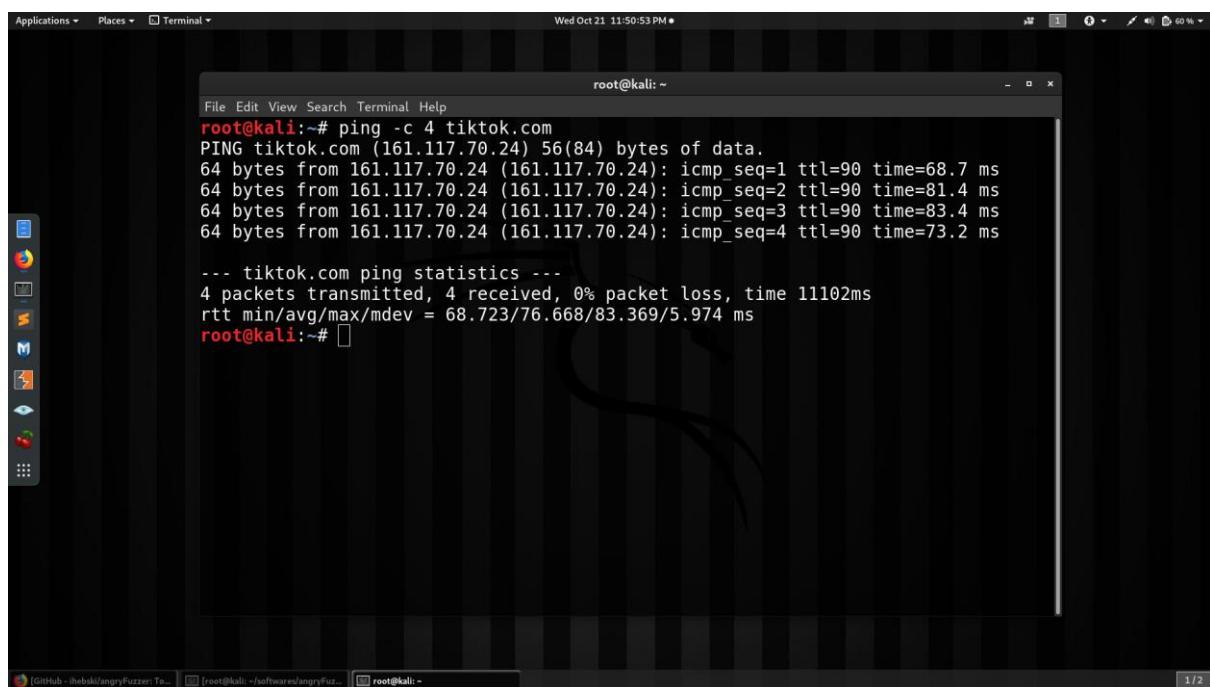
I will be using different tools in OWASP to scan domains of <https://www.tiktok.com> for find the above TOP 10 vulnerabilities.

2. WEB – AUDIT

2.1. Information Gathering (Reconnaissance)

2.1.1. Ping to tiktok.com

I used my Kali Linux machine and use ping command to check connectivity with my machine and targeted domain.



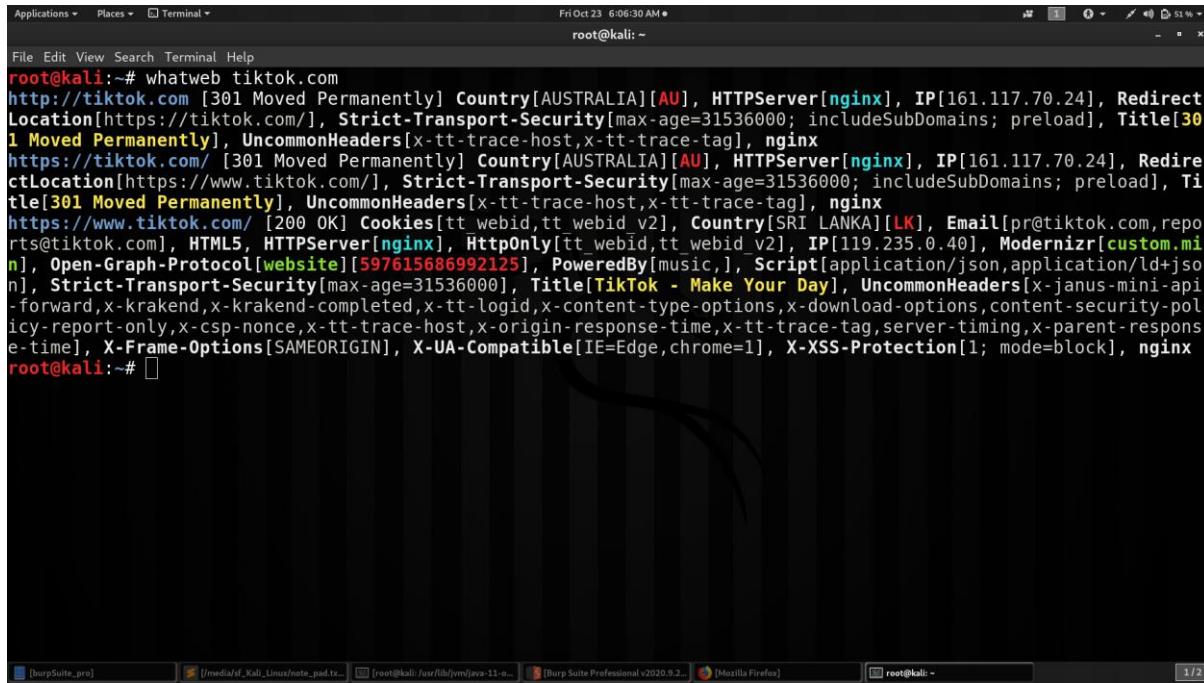
The screenshot shows a terminal window on a Kali Linux desktop environment. The terminal title is "root@kali: ~". The command entered is "ping -c 4 tiktok.com". The output shows four ICMP echo requests being sent to the host at 161.117.70.24. The statistics at the end show 4 packets transmitted, 4 received, 0% packet loss, and an average round-trip time of 11102ms. The terminal window has a dark background with light-colored text. The Kali desktop interface is visible in the background, including the taskbar with icons for a browser, file manager, and terminal.

```
root@kali:~# ping -c 4 tiktok.com
PING tiktok.com (161.117.70.24) 56(84) bytes of data.
64 bytes from 161.117.70.24 (161.117.70.24): icmp_seq=1 ttl=90 time=68.7 ms
64 bytes from 161.117.70.24 (161.117.70.24): icmp_seq=2 ttl=90 time=81.4 ms
64 bytes from 161.117.70.24 (161.117.70.24): icmp_seq=3 ttl=90 time=83.4 ms
64 bytes from 161.117.70.24 (161.117.70.24): icmp_seq=4 ttl=90 time=73.2 ms

--- tiktok.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 11102ms
rtt min/avg/max/mdev = 68.723/76.668/83.369/5.974 ms
root@kali:~#
```

2.1.2. Identifying technologies of tiktok.com

I used **whatweb** command to identify some information about the domain. Like HTTP server, IP address of domain, email, redirect location, country, etc.



```
Fri Oct 23 6:06:30 AM *
root@kali: ~
File Edit View Search Terminal Help
root@kali:~# whatweb tiktok.com
http://tiktok.com [301 Moved Permanently] Country[AUSTRALIA][AU], HTTPServer[nginx], IP[161.117.70.24], RedirectLocation[https://tiktok.com/], Strict-Transport-Security[max-age=31536000; includeSubDomains; preload], Title[301 Moved Permanently], UncommonHeaders[x-tt-trace-host,x-tt-trace-tag], nginx
https://tiktok.com/ [301 Moved Permanently] Country[AUSTRALIA][AU], HTTPServer[nginx], IP[161.117.70.24], RedirectLocation[https://www.tiktok.com/], Strict-Transport-Security[max-age=31536000; includeSubDomains; preload], Title[301 Moved Permanently], UncommonHeaders[x-tt-trace-host,x-tt-trace-tag], nginx
https://www.tiktok.com/ [200 OK] Cookies[tt_webid,tt_webid_v2], Country[SRI LANKA][LK], Email[pr@tiktok.com, reports@tiktok.com], HTML5, HTTPServer[nginx], HttpOnly[tt_webid,tt_webid_v2], IP[119.235.0.40], Modernizr[custom.min], Open-Graph-Protocol[website][597615686992125], PoweredBy[music.], Script[application/json,application/ld+json], Strict-Transport-Security[max-age=31536000], Title[TikTok - Make Your Day], UncommonHeaders[x-janus-mini-api-forward,x-krakend,x-krakend-completed,x-tt-logid,x-content-type-options,x-download-options,content-security-policy-report-only,x-csp-nonce,x-tt-trace-host,x-origin-response-time,x-tt-trace-tag,server-timing,x-parent-response-time], X-Frame-Options[SAMEORIGIN], X-UA-Compatible[IE=Edge,chrome=1], X-XSS-Protection[1; mode=block], nginx
root@kali:~#
```

2.1.3. Domain name Information

1. Usage of “Whois” feature

I used “**whois**” feature of www.domaintools.com to get following information about domain name.

- IP History
- Name Servers
- Hosting History
- ASN
- Dates
- Registrars

TikTok.com WHOIS, DNS, & Domains | TikTok - Bug Bounty Program | TikTok - Make Your Day

whois.domaintools.com/tiktok.com

Apps Slit Bell_4G CS Linux Learn Tools sources Accounts Sphere Online Judg... Quick Sort Program... Count Inversions in... cyber new #1 Crowdsourced C... new

HOME RESEARCH

Whois Record for TikTok.com

How does this work?

Domain Profile

Registrant REDACTED FOR PRIVACY
Registrant Org TIKTOK LTD
Registrant Country ky
Registrar GANDI SAS Gandi SAS
IANA ID: 81
URL: http://www.gandi.net
Whois Server: whois.gandi.net
abuse@support.gandinet
(p) 3317037761
Registrar Status clientTransferProhibited
Dates 8,860 days old
Created on 1996-07-20
Expires on 2023-07-19
Updated on 2020-08-26
Name Servers NS-1475.AWSDNS-56.ORG (has 32,806 domains)
NS-1574.AWSDNS-04.CO.UK (has 490 domains)
NS-440.AWSDNS-55.COM (has 5,951 domains)
NS-722.AWSDNS-26.NET (has 187 domains)
Tech Contact REDACTED FOR PRIVACY
REDACTED FOR PRIVACY,
REDACTED FOR PRIVACY, REDACTED FOR PRIVACY, REDACTED FOR PRIVACY, REDACTED
FOR PRIVACY
f19c697400249b0ba26da776aeaaa3b0-20984370@contact.gandi.net

View Screenshot History Available TLDs General TLDs Country TLDs

Windows Type here to search 1:38 AM 10/23/2020

TikTok.com WHOIS, DNS, & Domains | TikTok - Bug Bounty Program | TikTok - Make Your Day

whois.domaintools.com/tiktok.com

Apps Slit Bell_4G CS Linux Learn Tools sources Accounts Sphere Online Judg... Quick Sort Program... Count Inversions in... cyber new #1 Crowdsourced C... new

HOME RESEARCH

Whois Record for TikTok.com

View Screenshot History Available TLDs General TLDs Country TLDs

The following domains are available through our preferred partners. Select domains below for more information. (3rd party site)

- Taken domain.
- Available domain.
- Deleted previously owned domain.

TikTok.com	View Whois
TikTok.net	View Whois
TikTok.org	View Whois
TikTok.info	View Whois
TikTok.biz	View Whois
TikTok.us	View Whois

Get SSL 1 free alpha

Whois Record (last updated on 2020-10-22)

Windows Type here to search 1:38 AM 10/23/2020

Whois Record (last updated on 2020-10-22)

```
Domain Name: tiktok.com
Registry Domain ID: 1046418_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.gandi.net
Registrar URL: http://www.gandi.net
Updated Date: 2020-08-26T19:54:16Z
Creation Date: 1996-07-21T04:00:00Z
Registrar Registration Expiration Date: 2023-07-20T04:00:00Z
Registrar: GANDI SAS
Registrar IANA ID: 81
Registrar Abuse Contact Email: abuse@support.gandi.net
Registrar Abuse Contact Phone: +33.170377661
Reseller:
Domain Status: clientTransferProhibited http://www.icann.org/epp#cli
entTransferProhibited
Domain Status:
Domain Status:
Domain Status:
Domain Status:
Registry Registrant ID: REDACTED FOR PRIVACY
Registrant Name: REDACTED FOR PRIVACY
Registrant Organization: TIKTOK LTD
Registrant Street: REDACTED FOR PRIVACY
Registrant City: REDACTED FOR PRIVACY
Registrant State/Province:
Registrant Postal Code: REDACTED FOR PRIVACY
Registrant Country: KY
Registrant Phone: REDACTED FOR PRIVACY
Registrant Phone Ext:
Registrant Fax: REDACTED FOR PRIVACY
Registrant Fax Ext:
Registrant Email: f19c697400249b00ba26da776aeaa3b0-20984370@contact.gandi.net
Registry Admin ID: REDACTED FOR PRIVACY
Admin Name: REDACTED FOR PRIVACY
Admin Organization: REDACTED FOR PRIVACY
Admin Street: REDACTED FOR PRIVACY
Admin City: REDACTED FOR PRIVACY
Admin State/Province: REDACTED FOR PRIVACY
Admin Postal Code: REDACTED FOR PRIVACY
Admin Country: REDACTED FOR PRIVACY
Admin Phone: REDACTED FOR PRIVACY
Admin Phone Ext:
Admin Fax: REDACTED FOR PRIVACY
Admin Fax Ext:
```

Admin Email: f19c697400249b00ba26da776aeaa3b0-20984370@contact.gandi.net
Registry Tech ID: REDACTED FOR PRIVACY
Tech Name: REDACTED FOR PRIVACY
Tech Organization: REDACTED FOR PRIVACY
Tech Street: REDACTED FOR PRIVACY
Tech City: REDACTED FOR PRIVACY
Tech State/Province: REDACTED FOR PRIVACY
Tech Postal Code: REDACTED FOR PRIVACY
Tech Country: REDACTED FOR PRIVACY
Tech Phone: REDACTED FOR PRIVACY
Tech Phone Ext:
Tech Fax: REDACTED FOR PRIVACY
Tech Fax Ext:
Tech Email: f19c697400249b00ba26da776aeaa3b0-20984370@contact.gandi.net
Name Server: NS-722.AWSDNS-26.NET
Name Server: NS-440.AWSDNS-55.COM
Name Server: NS-1574.AWSDNS-04.CO.UK
Name Server: NS-1475.AWSDNS-56.ORG
Name Server:
DNSSEC: Unsigned
URL of the ICANN WHOIS Data Problem Reporting System: <http://wdprs.internic.net/>

For more information on Whois status codes, please visit
<https://www.icann.org/epp>

Reseller Email:
Reseller URL:

2. Ad / Analytics Relationships

I used **builtwith** web site for do this.

The screenshot shows the builtwith.com interface with the URL <https://builtwith.com/detailed/tiktok.com>. The main content area displays the 'TIKTOK.COM' detailed technology profile. It includes tabs for Technology Profile, Detailed Technology Profile, Meta Data Profile, Relationship Profile, and Redirect Profile. The 'Detailed Technology Profile' tab is selected. A yellow banner at the top indicates 'You have used 1 of 5 lookups you can do on a free account currently.' A 'View Plans' button is available for advanced users. The main table lists various technologies used by TikTok, such as Global Site Tag, Facebook Domain Insights, and Google Universal Analytics, along with their first and last detection dates. To the right, there's a sidebar for 'Technologies' with checkboxes for Hide Removed, Hide Free, and Hide Established. Below the sidebar is a list of sub-domains under tiktok.com, including m.tiktok.com, ads.tiktok.com, and login.tiktok.com. The bottom of the page shows a Windows taskbar with various pinned icons.

This screenshot continues from the previous one, showing more of the detailed technology profile for TikTok.com. The 'Widgets' section lists Google No Translate, Google Tag Manager, and COVID-19. The 'Language' section lists various language variants like English HREF LANG, German HREF LANG, Spanish HREF LANG, etc. The 'Frameworks' section shows Next.js and PHP. The right sidebar remains the same, displaying the list of sub-domains under tiktok.com. The Windows taskbar is visible at the bottom.

Technology Report for tiktok.com

PHP

Technology	Last Update	Next Update
ASP.NET	Dec 2017	Jan 2018
ASP.NET 4.0	Dec 2017	Jan 2018

Content Delivery Network

Technology	Last Update	Next Update
GStatic Google Static Content	Dec 2016	Jul 2019
Akamai	May 2019	Jun 2019
AJAX Libraries API	Jul 2017	Oct 2017

Mobile

Technology	Last Update	Next Update
Viewport Meta	Feb 2019	Oct 2020
iPhone / Mobile Compatible	Feb 2019	Oct 2020
Mobile Non Scalable Content	Feb 2019	Oct 2020
Apple Mobile Web App Capable	Nov 2019	Oct 2020
Apple Mobile Web App Status Bar Style	Nov 2019	Oct 2020
Apple Mobile Web Clips Icon	Nov 2019	Oct 2020
Twitter App Card	Aug 2020	Oct 2020
Twitter App Card iPhone	Aug 2020	Oct 2020
Twitter App Card Android	Aug 2020	Oct 2020
Apple Mobile Web Clips Startup	Nov 2019	May 2020

Payment

Technology	Last Update	Next Update
Japanese Yen	Feb 2020	Oct 2020
Pound Sterling	Sep 2018	Oct 2020
Euro	Aug 2020	Aug 2020

JavaScript Libraries and Functions

Technology	Last Update	Next Update
jQuery	Oct 2017	Oct 2020

Change Page Layout

\$2000+ / month
Technology Spend is based on the sum of the average cost of the active premium paid-for technologies found across tiktok.com.

Get a notification when tiktok.com adds new technologies.
[Create Notification](#)

Add BuiltWith to Chrome for free!
Get lookups easily and quickly.
[Add to Chrome](#)

TIKTOK.COM XML
TIKTOK.COM JSON
Get tiktok.com profile as an XML or JSON feed.

Technology Report for tiktok.com

jQuery

Technology	Last Update	Next Update
Modernizr Compatibility	Nov 2019	Oct 2020

Service Worker

Technology	Last Update	Next Update
Workbox	Sep 2020	Oct 2020
Webpack	Feb 2019	Oct 2020
Iodash	Feb 2019	Oct 2020

core-js

Technology	Last Update	Next Update
Cclassnames	Feb 2020	Oct 2020
React	Feb 2020	Oct 2020

es6 promise

Technology	Last Update	Next Update
Sentry	Oct 2018	Sep 2020

Raven JS

Technology	Last Update	Next Update
Boomerang	Jun 2019	Jun 2019

Underscore.js

Technology	Last Update	Next Update
particles.js	Feb 2019	Feb 2019

Google Hosted Libraries

Technology	Last Update	Next Update
jQuery 1.8.3	Oct 2017	Oct 2017
Google Hosted jQuery	Oct 2017	Oct 2017

Advertising

Technology	Last Update	Next Update
DoubleClick Net	Dec 2016	Oct 2020
Toutiao	Aug 2020	Oct 2020

Change Page Layout

Google Hosted jquery		
	Oct 2017	Oct 2017
Advertising		
DoubleClick.Net	Dec 2016	Oct 2020
Toutiao	Aug 2020	Oct 2020
AdBlock Acceptable Ads	Oct 2017	Oct 2017
Google Consumer Surveys	Dec 2016	Feb 2017
Google AdSense for Domains	Jan 2017	Feb 2017
Google AdSense Contextual Advertising	Jan 2017	Feb 2017
Verified Link		
Careers	Apr 2020	Oct 2020
Name Server		
Amazon Route 53 Enterprise DNS	Aug 2018	Oct 2020
DNS Pod	Nov 2017	Apr 2018
Namecheap DNS	Dec 2016	Nov 2017
Email Hosting Providers		
Zendesk	Oct 2020	Oct 2020
SPF	Jun 2017	Oct 2020
Google Apps for Business Business Email Hosting	Aug 2018	Oct 2020
DMARC DMARC	May 2020	Oct 2020
Namecheap Private Email Business Email Hosting	Jun 2017	Nov 2017
Web Hosting Providers		
Akamai Hosted US hosting	May 2020	Oct 2020

Akamai Hosted US hosting		
	May 2020	Oct 2020
Alibaba	Aug 2018	Jun 2020
Energy Group Hosting Dedicated Hosting- US hosting	Jan 2018	Jan 2018
Psych Networks US hosting	Nov 2017	Nov 2017
Namecheap Hosting US hosting	Jun 2017	Nov 2017
Voodoo	Oct 2017	Oct 2017
SSL Certificates		
DigiCert SSL Root Authority	Aug 2018	Oct 2020
RapidSSL	Aug 2018	Oct 2020
SSL by Default	Jul 2018	Oct 2020
Web Servers		
nginx	Nov 2017	Oct 2020
Nginx 1.14	Apr 2019	Jul 2020
IIS 7	Dec 2017	Jan 2018
IIS	Dec 2017	Jan 2018
Apache 2.2	Oct 2017	Oct 2017
Apache	Oct 2017	Oct 2017
Operating Systems and Servers		
CentOS	Oct 2017	Oct 2017
Verified CDN		
Akamai Edge Edge Delivery Network	Jan 2019	Sep 2020

Verified CDN

Service	First Detected	Last Detected	Notes
Akamai Edge Edge Delivery Network	Jan 2019	Sep 2020	\$

Robots.txt

Service	First Detected	Last Detected
Baidu Bot Disallow	Jul 2020	Oct 2020
360 Bot Disallow	Jul 2020	Oct 2020

Content Delivery Network

Service	First Detected	Last Detected
Content Delivery Network	Jul 2018	Oct 2020

Web Master Registration

Service	First Detected	Last Detected
Google Webmaster	Jul 2018	Sep 2020
Naver Webmaster Tools	Jul 2018	Apr 2019

TIKTOK.COM/*

Analytics and Tracking

Service	First Detected	Last Detected
AppsFlyer Marketing Automation	Sep 2020	Oct 2020
Facebook Signal	Sep 2019	Nov 2019
Facebook Conversion Tracking Conversion Optimization	Sep 2019	Nov 2019
Facebook Pixel	Sep 2019	Nov 2019

Widgets

Service	First Detected	Last Detected
European Commission Online Dispute Resolution Privacy Compliance	Mar 2020	Oct 2020

Widgets

Service	First Detected	Last Detected
European Commission Online Dispute Resolution Privacy Compliance	Mar 2020	Oct 2020

Plugins

Service	First Detected	Last Detected
European Commission Online Dispute Resolution Privacy Compliance	Mar 2020	Oct 2020
Kakao Live Chat	Dec 2019	May 2020
Sign In with Apple Login	Dec 2019	Mar 2020
Google Font API Fonts	Jun 2019	Jul 2019

Language

Service	First Detected	Last Detected
Spanish	Jun 2020	Oct 2020
Indonesian	Oct 2020	Oct 2020
Dutch	May 2020	Oct 2020
Thai	Oct 2020	Oct 2020
German	Feb 2020	Oct 2020
French	Aug 2020	Sep 2020
Russian	Aug 2020	Sep 2020
Cebuano	Jun 2020	Jun 2020

eCommerce

Service	First Detected	Last Detected
Cart Functionality Non Platform	Sep 2020	Oct 2020

Frameworks

Service	First Detected	Last Detected
Nuxt.js	Jun 2020	Oct 2020

Payment

Service	First Detected	Last Detected
Venmo Payment Acceptance	Sep 2020	Oct 2020

JavaScript Libraries and Functions

Service	First Detected	Last Detected
---------	----------------	---------------

vermo		
	Sep 2020	Oct 2020
JavaScript Libraries and Functions		
Day.js	May 2020	Oct 2020
Vue	Jun 2020	Oct 2020
VK	Sep 2020	Sep 2020
Polyfill IO	Dec 2019	Sep 2020
hello.js	May 2020	May 2020
Babel	May 2020	May 2020
HTML5 History API	Dec 2019	Mar 2020
zepto.js	Oct 2019	Dec 2019
Facebook for Websites	Sep 2019	Nov 2019
Facebook SDK	Sep 2019	Nov 2019
Advertising		
Facebook Custom Audiences Retargeting / Remarketing	Sep 2019	Nov 2019
Web Hosting Providers		
CenturyLink	May 2020	Oct 2020
US hosting		



M.TIKTOK.COM/*		
	First Detected	Last Detected
Widgets		
Smart App Banner	Aug 2018	Nov 2018
Mobile		
Mobile Optimized	Nov 2019	Oct 2020
Audio / Video Media		
jPlayer	Aug 2018	Nov 2018
JavaScript Libraries and Functions		
Day.js	Jul 2020	Sep 2020
Advertising		
Tanx	Nov 2019	Oct 2020

ADS.TIKTOK.COM		
	First Detected	Last Detected
Frameworks		
Nuxt.js	Jun 2020	Sep 2020
JavaScript Libraries and Functions		
Vue	Jun 2020	Sep 2020



LOGIN.TIKTOK.COM

Widgets	First Detected	Last Detected
Kakao Live Chat	Jun 2019	Nov 2019
Polyfill IO JavaScript Library	Apr 2019	Nov 2019
Babel Framework	Apr 2019	Apr 2019

ADS.TIKTOK.COM/*

Analytics and Tracking	First Detected	Last Detected
GrowingIO Conversion Optimization	Jun 2019	Nov 2019

JavaScript Libraries and Functions

jQuery UI jQuery Plugin - UI	First Detected	Last Detected
jQuery UI jQuery Plugin - UI	Jun 2019	Sep 2019
Babel Framework	Jul 2019	Jul 2019

Advertising

Tanx	First Detected	Last Detected
Tanx	Jul 2019	Nov 2019

SUPPORT.TIKTOK.COM

Widgets	First Detected	Last Detected
Google Font API Fonts	Mar 2019	Oct 2020
WPMU Multilingual WordPress Plugins	Mar 2019	Apr 2019
Wordpress Plugins	Mar 2019	Apr 2019
TablePress WordPress Plugins	Mar 2019	Apr 2019
WP Super Cache WordPress Plugins	Mar 2019	Apr 2019
Twemoji	Mar 2019	Apr 2019

Language

Chinese	First Detected	Last Detected
Chinese	May 2019	Sep 2019

Frameworks

ANT Design	First Detected	Last Detected
ANT Design	Jun 2020	Sep 2020
WooCommerce Multilingual WordPress Theme	Mar 2019	Apr 2019

Content Management System

WordPress Open Source - Blog	First Detected	Last Detected
WordPress Open Source - Blog	Mar 2019	Apr 2019
Wordpress 4.9	Mar 2019	Apr 2019

JavaScript Libraries and Functions

Babel Framework	First Detected	Last Detected
Babel Framework	Jun 2020	Oct 2020

WebFont Loader

The screenshot shows a Windows desktop environment. At the top, there is a taskbar with several pinned icons. Below the taskbar, a window titled "CAREERS.TIKTOK.COM" displays a table of detected technologies. The table has columns for "Language", "First Detected", and "Last Detected".

Language	First Detected	Last Detected
Chinese	Feb 2020	Oct 2020
Content Delivery Network		
Akamai Global Host	Feb 2020	Oct 2020
JavaScript Libraries and Functions		
Moment JS	Jun 2020	Oct 2020
crypto browserify	Jun 2020	Oct 2020
React Redux	Sep 2020	Oct 2020

The system tray at the bottom right shows the date and time as 10/23/2020 1:51 AM.

The screenshot shows a Windows desktop environment. At the top, there is a taskbar with several pinned icons. Below the taskbar, a window titled "NEWSROOM.TIKTOK.COM" displays a table of detected technologies. The table has columns for "Widgets", "First Detected", and "Last Detected".

Widgets	First Detected	Last Detected
Facebook Share	Mar 2019	Jun 2020
Frameworks		
Express	Mar 2019	Jul 2019
Content Delivery Network		
jQuery CDN	Mar 2019	Jul 2019
Content Management System		
Ghost Blog: Open Source	Mar 2019	Jul 2019
Ghost 2.3.*	Mar 2019	Jul 2019
JavaScript Libraries and Functions		
jQuery 3.2.1	Mar 2019	Jul 2019
FitVids.js jQuery Plugin	Mar 2019	Jul 2019
Syndication Techniques		
RSS	Mar 2019	Jul 2019

The system tray at the bottom right shows the date and time as 10/23/2020 1:51 AM.

The screenshot displays a Microsoft Edge browser window with four tabs open, each showing detailed technology reports for different TikTok sub-domains.

BUSINESS.TIKTOK.COM

	First Detected	Last Detected
JavaScript Libraries and Functions		
Vue	May 2020	Sep 2020
Moment JS	May 2020	Jun 2020
SortableJS	Jun 2020	Jun 2020
zepto.js	Feb 2020	Feb 2020
Advertising		
Tanx	Feb 2020	Jun 2020

DATAHUB.TIKTOK.COM/*

	First Detected	Last Detected
Content Delivery Network		
Akamai Global Host	Aug 2020	Aug 2020
Web Servers		
Nginx 1.17	Aug 2020	Aug 2020

EMAIL.MAILTIKTOK.COM

	First Detected	Last Detected
Email Hosting Providers		
Mailgun	Apr 2019	Mar 2020
Web Hosting Providers		
Amazon	Apr 2019	Jun 2020
Amazon Virginia Region	Apr 2019	Jun 2020

NEWSROOM.TIKTOK.COM/*

	First Detected	Last Detected
Analytics and Tracking		
Facebook Signal	Nov 2019	Nov 2019
Facebook Conversion Tracking	Nov 2019	Nov 2019
Facebook Pixel	Nov 2019	Nov 2019
Language		
German	Jul 2020	Jul 2020
JavaScript Libraries and Functions		
Facebook for Websites	Nov 2019	Nov 2019
Facebook SDK	Nov 2019	Nov 2019
zepto.js	Nov 2019	Nov 2019

The screenshot shows a Windows 10 taskbar at the bottom of the screen. It includes a search bar, pinned icons for File Explorer, Task View, Start, and Edge, and the system tray which displays battery level (152 AM), network status, and date/time (10/23/2020).

builtwith.com/detailed/tiktok.com

Category	First Detected	Last Detected
JavaScript Libraries and Functions		
Facebook for Websites	Nov 2019	Nov 2019
Facebook SDK	Nov 2019	Nov 2019
zepto.js	Nov 2019	Nov 2019
Advertising		
Facebook Custom Audiences	Nov 2019	Nov 2019

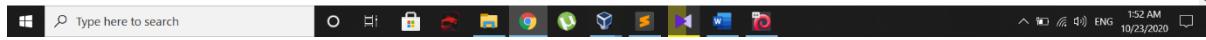
DEVELOPERS.TIKTOK.COM		
	First Detected	Last Detected
Frameworks		
ANT Design	Jun 2020	Sep 2020
Content Delivery Network		
Akamai Global Host	Feb 2020	Oct 2020
JavaScript Libraries and Functions		
Moment JS	Jun 2020	Oct 2020
zepto.js	Feb 2020	Sep 2020



builtwith.com/detailed/tiktok.com

Frameworks	First Detected	Last Detected
Nuxt.js	Jun 2020	Sep 2020
Vue	Jun 2020	Sep 2020
crypto-browserify	Sep 2020	Sep 2020
Elliptic	Sep 2020	Sep 2020
Moment JS	Sep 2020	Sep 2020

CREATORMARKETPLACE.TIKTOK.COM		
	First Detected	Last Detected
Frameworks		
ElementUI	Jun 2020	Sep 2020
Vue	Jun 2020	Sep 2020
Axios	Jul 2020	Sep 2020



TIKTOK.COM

Technology Profile Detailed Technology Profile Meta Data Profile Relationship Profile Redirect Profile

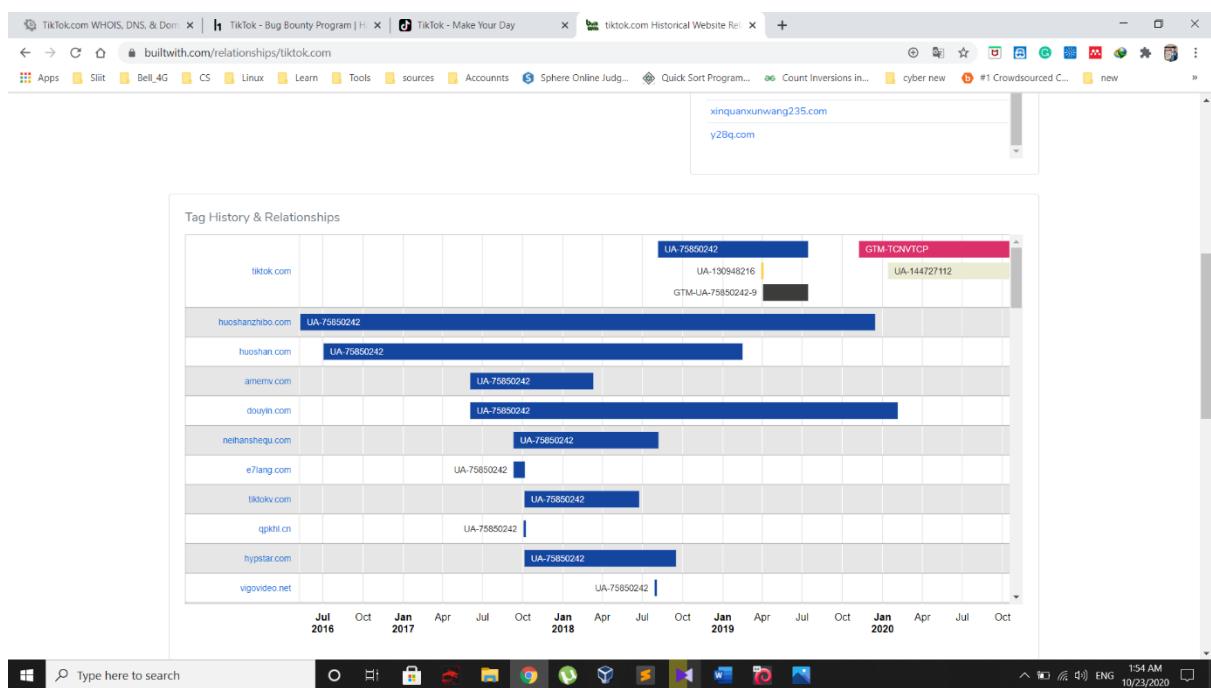
TIKTOK.COM Tag History

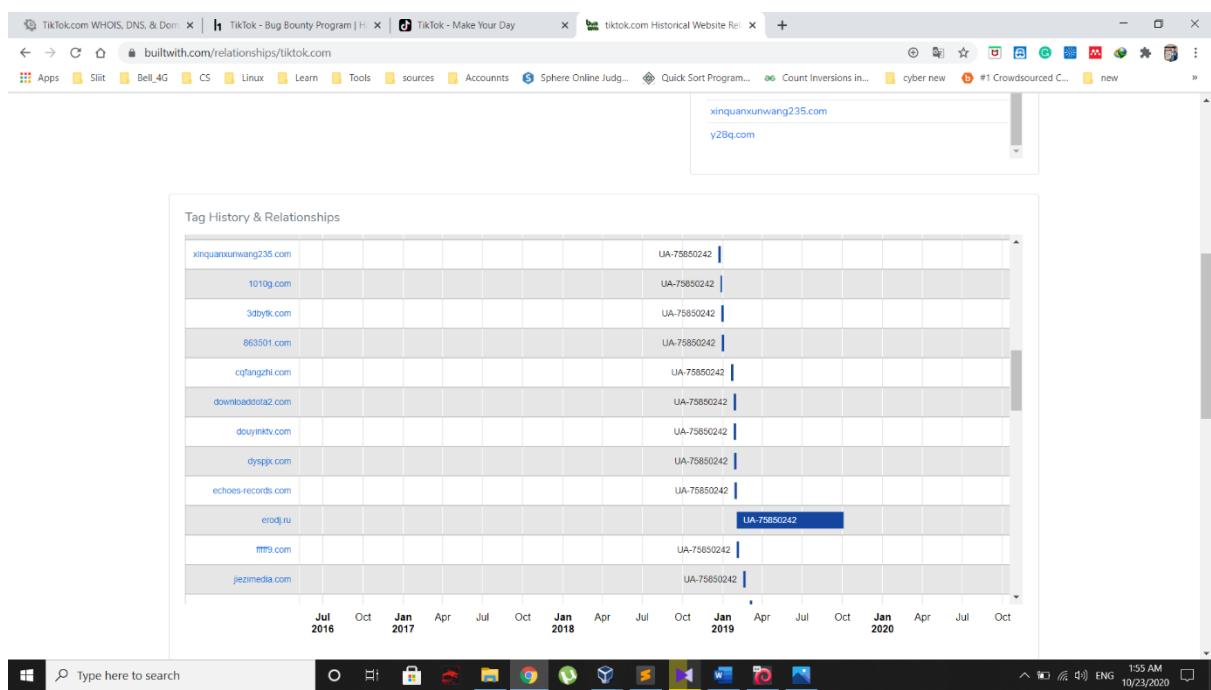
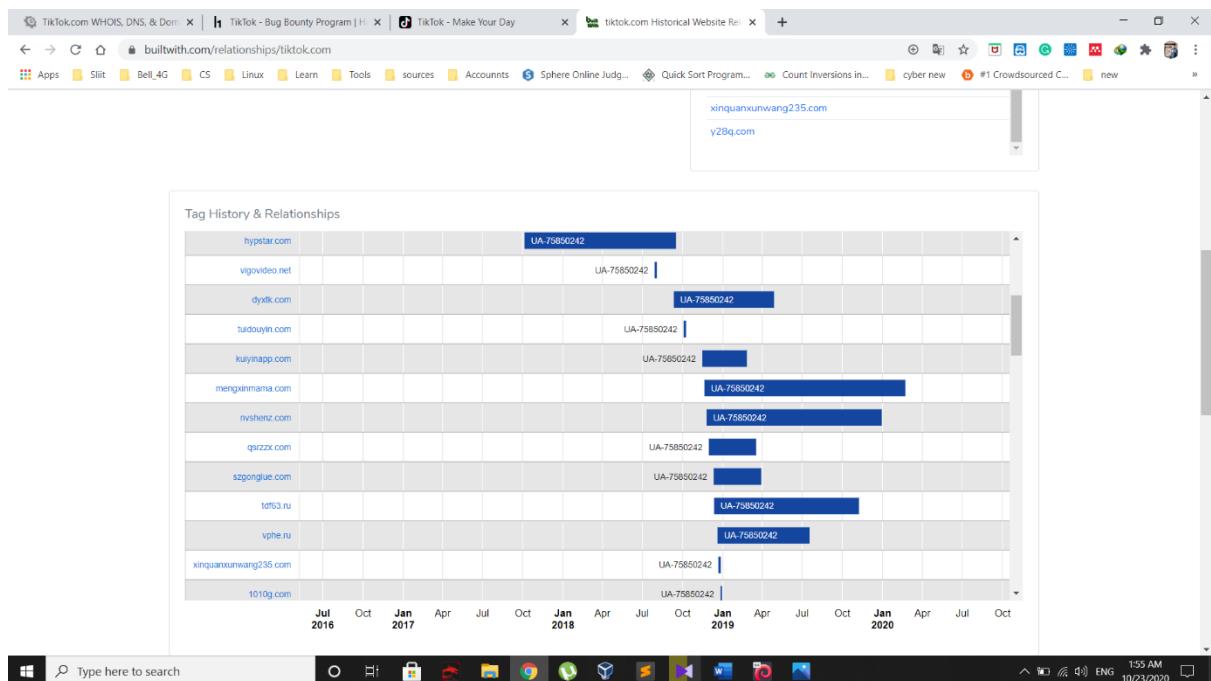
Type	ID	First Detected	Last Detected
GTM-TCNVTCP		Nov 2019	Oct 2020
UA-144727112		Jan 2020	Oct 2020
UA-75850242		Aug 2018	Jul 2019
GTM-UA-75850242-9		Apr 2019	Jul 2019
UA-130948216		Apr 2019	Apr 2019

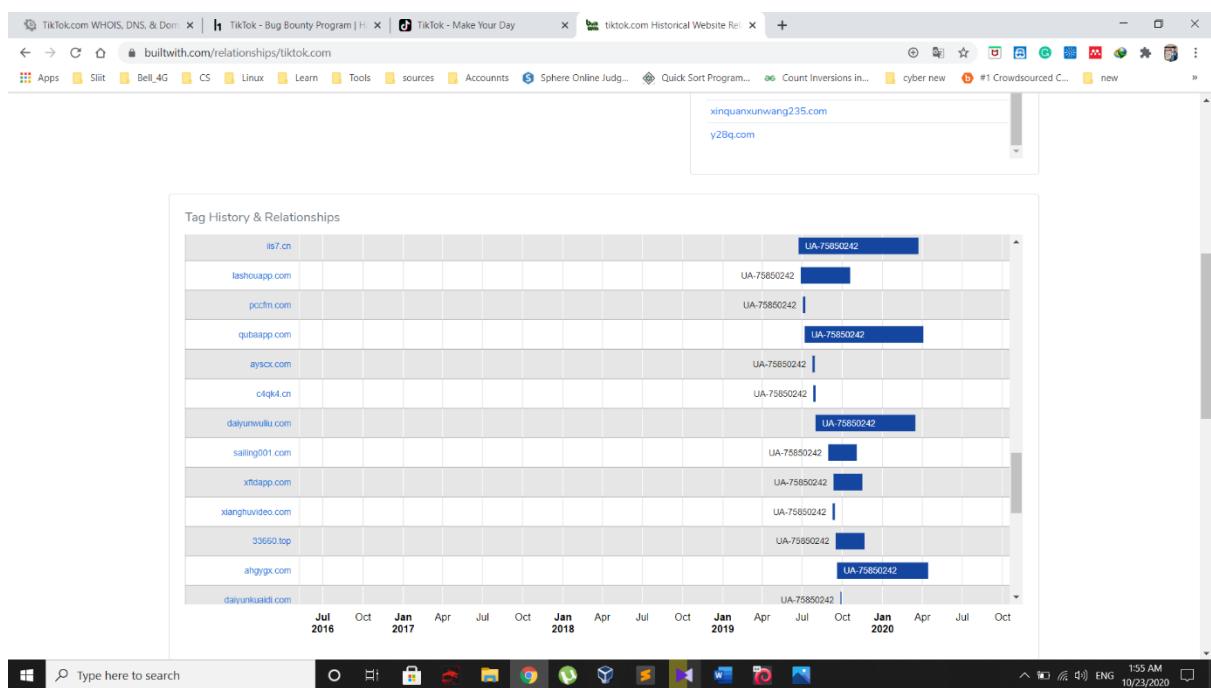
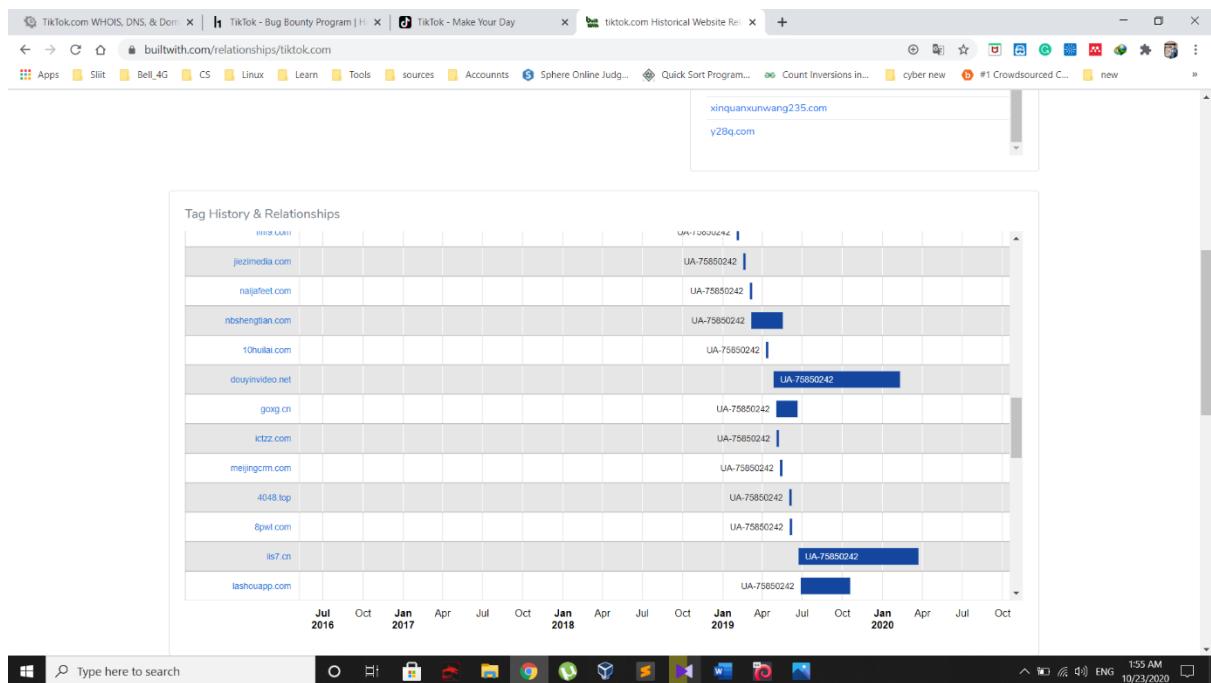
TIKTOK.COM Connected Websites

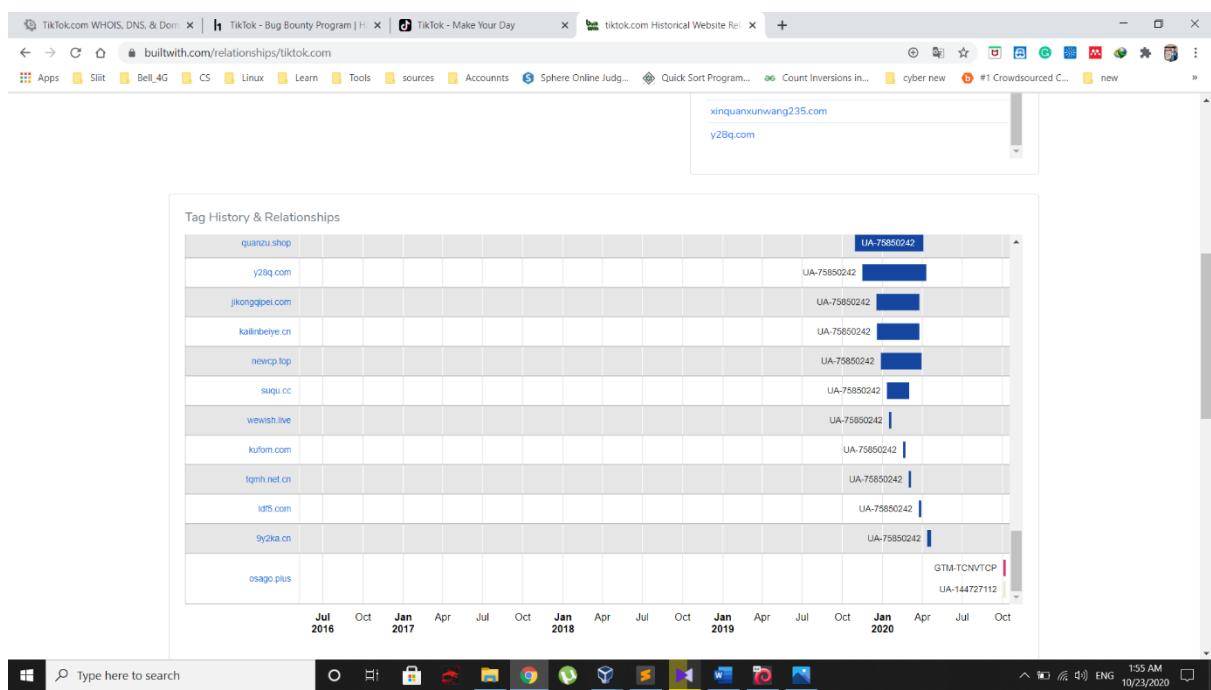
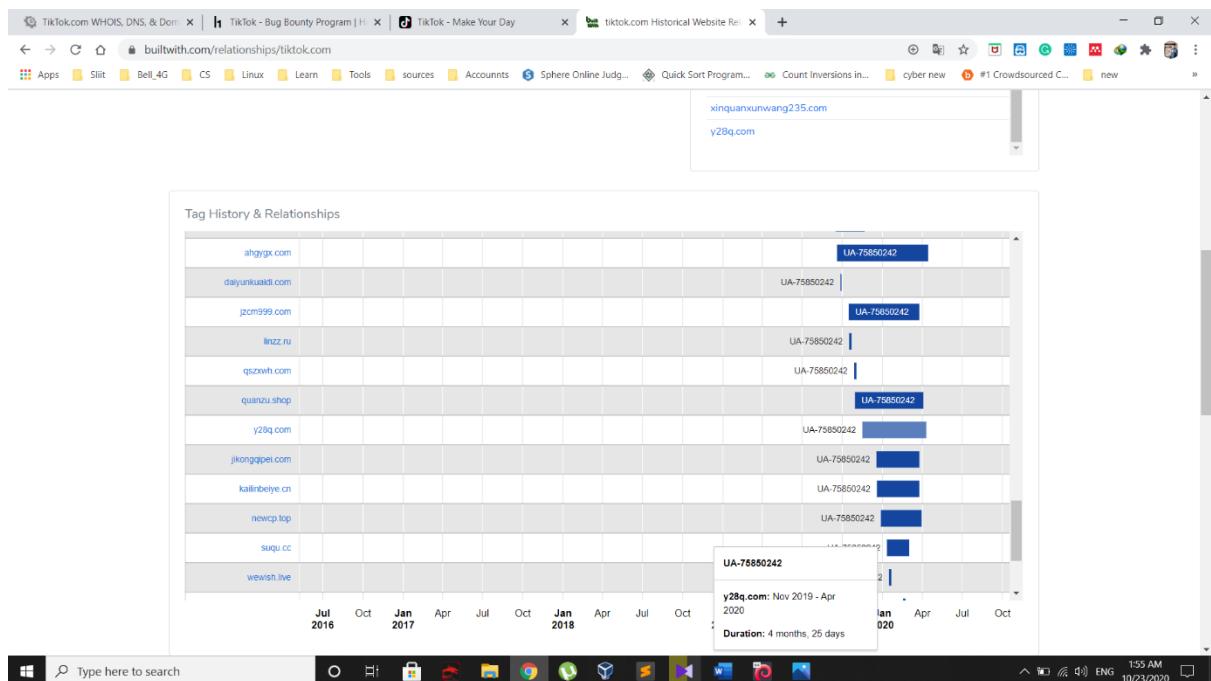
Website
1010g.com
10huai.com
33660.top
3dbytk.com
4048top
863501.com
8pw1.com
9y2ka.cn
ahgygx.com
amemv.com
ayscx.com
c4qk4.cn

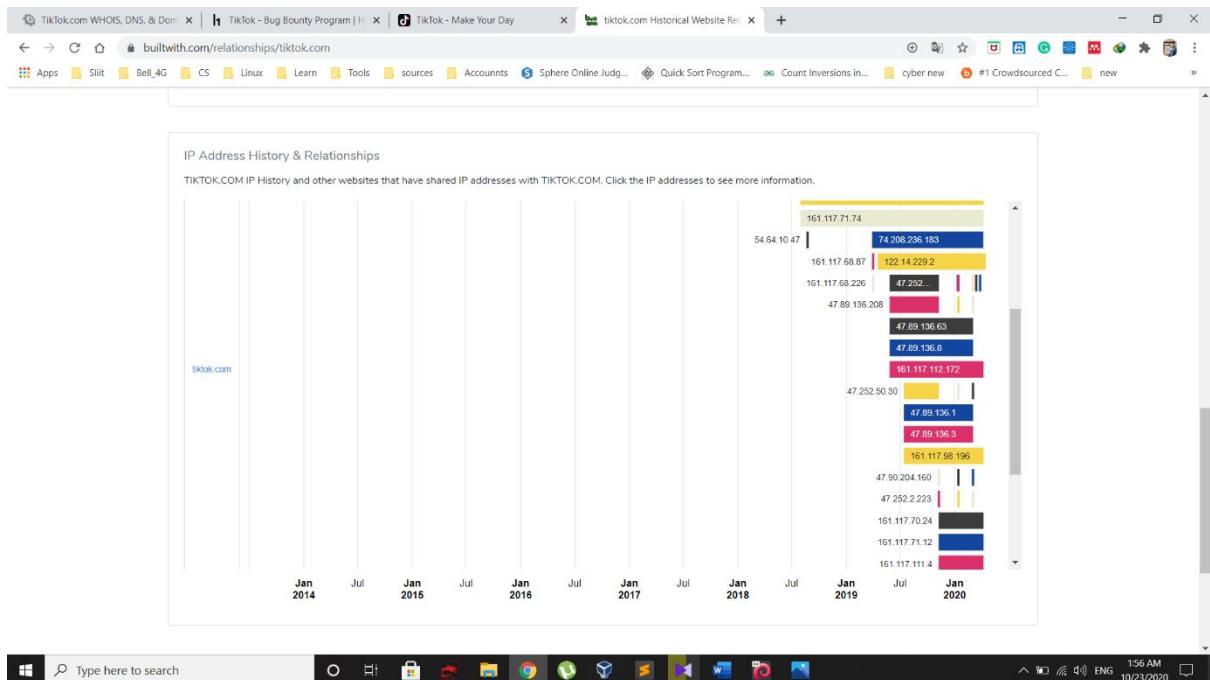
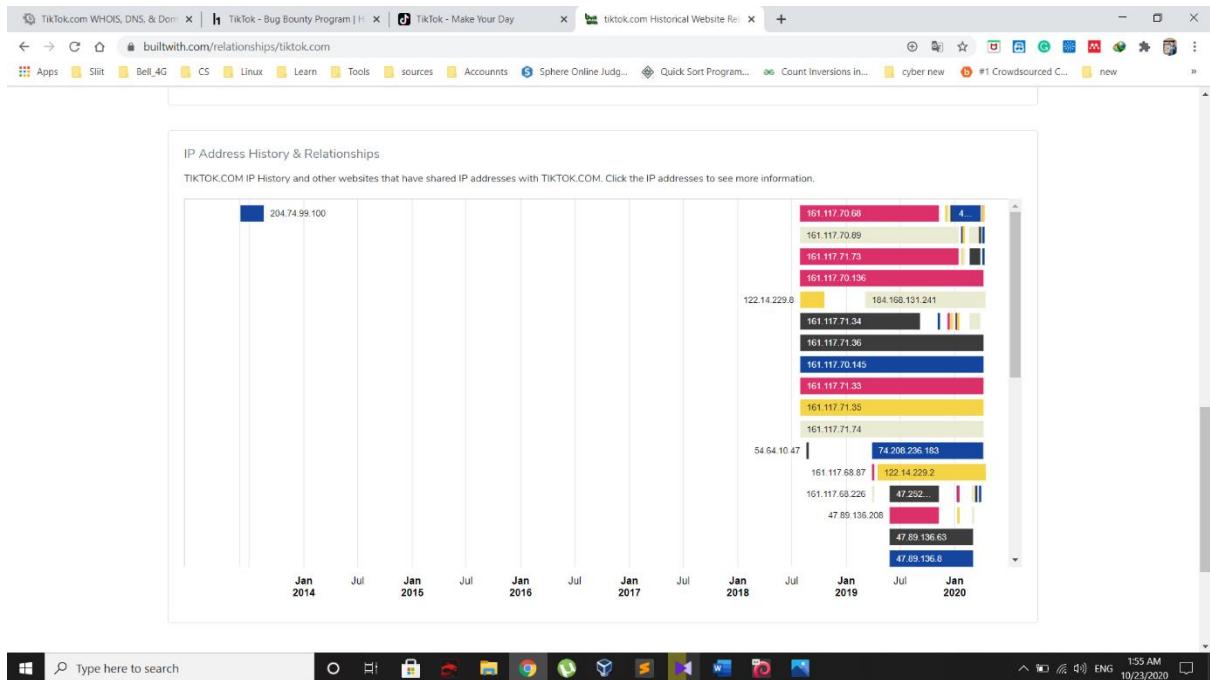
Tag History & Relationships

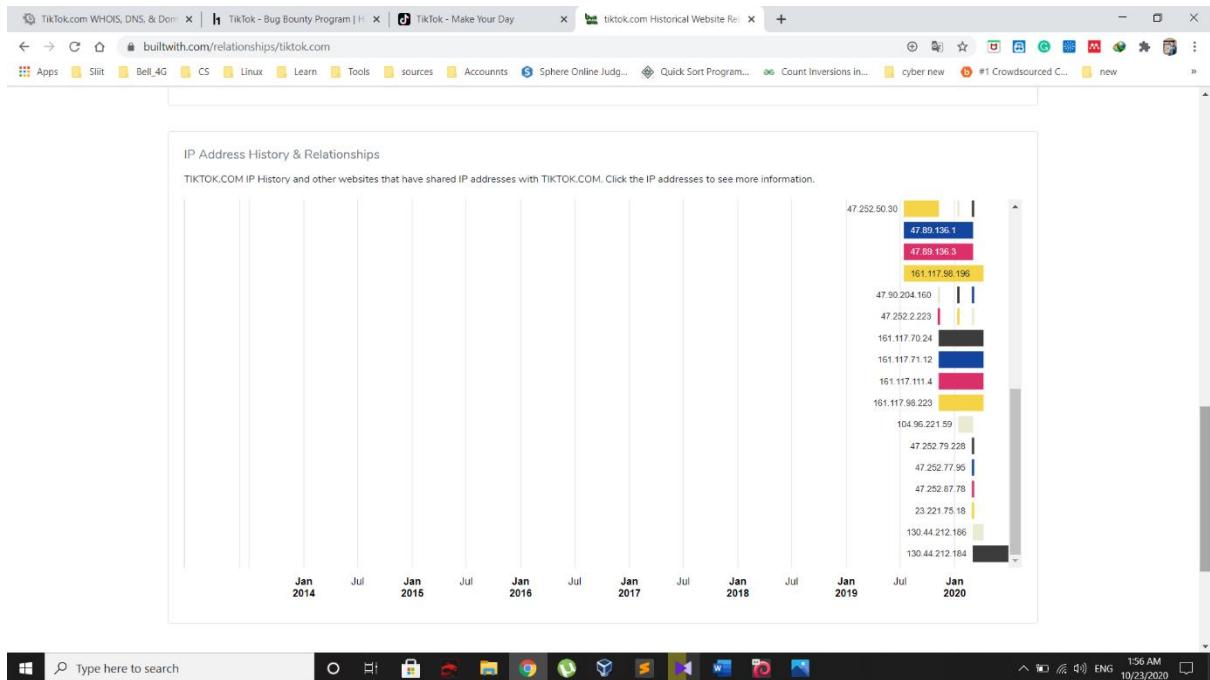




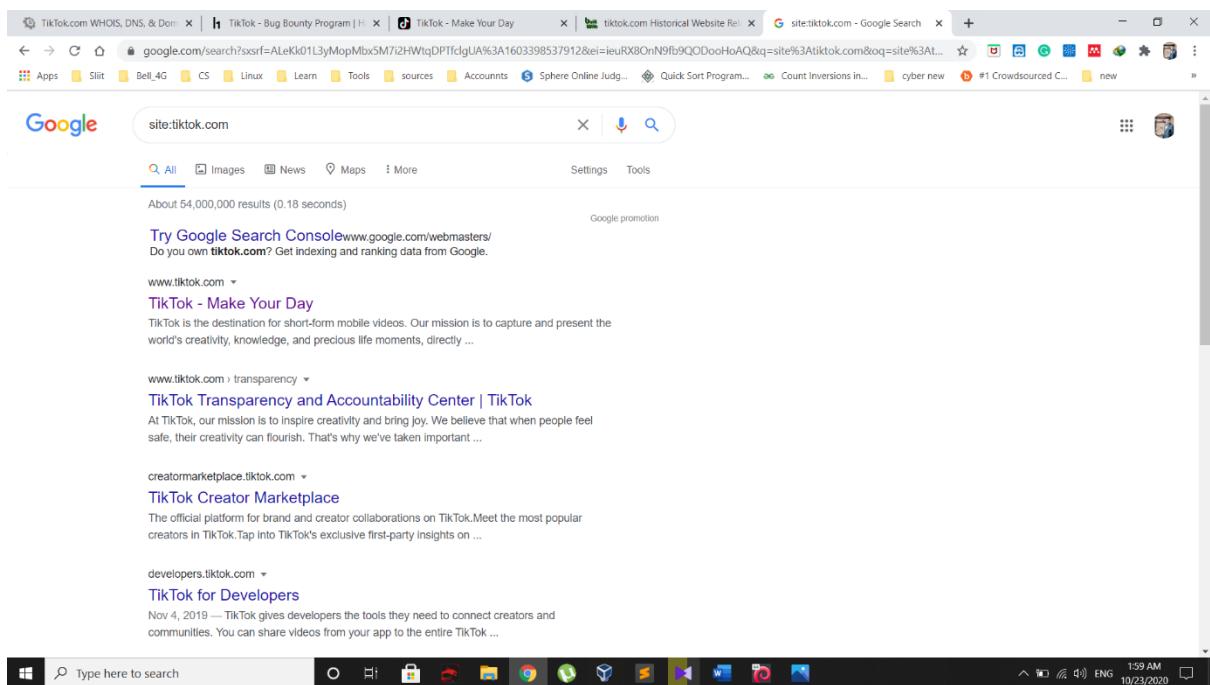








2.1.4. Google -Fu on tiktok.com

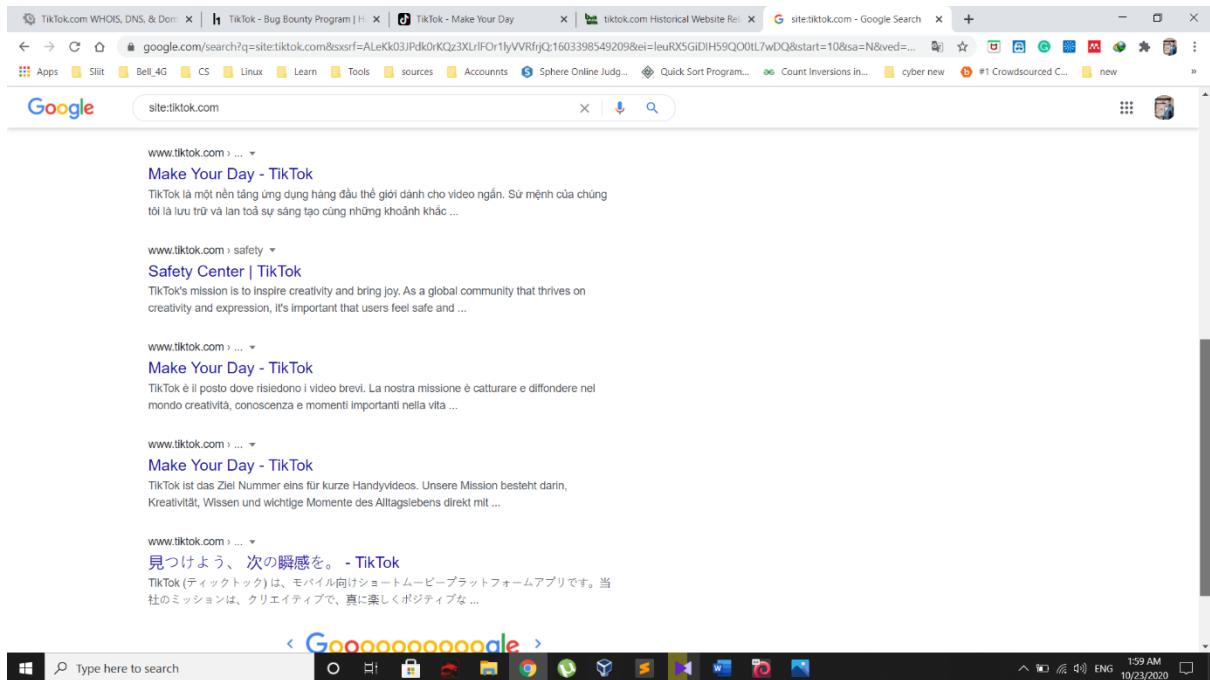


Google search results for `site:tiktok.com`:

- [www.tiktok.com › business](#)
- [TikTok For Business: Marketing on TikTok](#)
Reach diverse audiences around the world through TikTok For Business, an all-in-one marketing solutions platform.
- [www.tiktok.com › ...](#)
- [숏.행 짧아서 확실한 행복 - TikTok](#)
TikTok (틱톡)은 글로벌 숏 비디오 플랫폼입니다. 평범한 일상에 특별한 의미를 더하는 순간, 틱톡이 제시하는 세상의 하이라이트 영상을 통해 즐겁고 영감이 ...
- [www.tiktok.com › pt_BR](#)
- [Make Your Day - TikTok](#)
O TikTok é o principal destino para vídeos breves em celulares. Nossa missão é capturar e apresentar a criatividade, o conhecimento e os preciosos momentos ...
- [www.tiktok.com › zh_Hant](#)
- [TikTok - Make Your Day](#)
TikTok 為手機行動短影音平台。我們的使命是用手機捕捉並呈現全世界用戶的創造力、智慧和精彩瞬間。TikTok使每個人都有機會成為創作者。我們鼓勵每個用戶 ...
- [www.tiktok.com › ...](#)
- [Make Your Day - TikTok](#)
TikTok (тикток) — ресурс для создания и распространения коротких мобильных клипов. Наша миссия — запечатлевать лучшие моменты и делиться ...

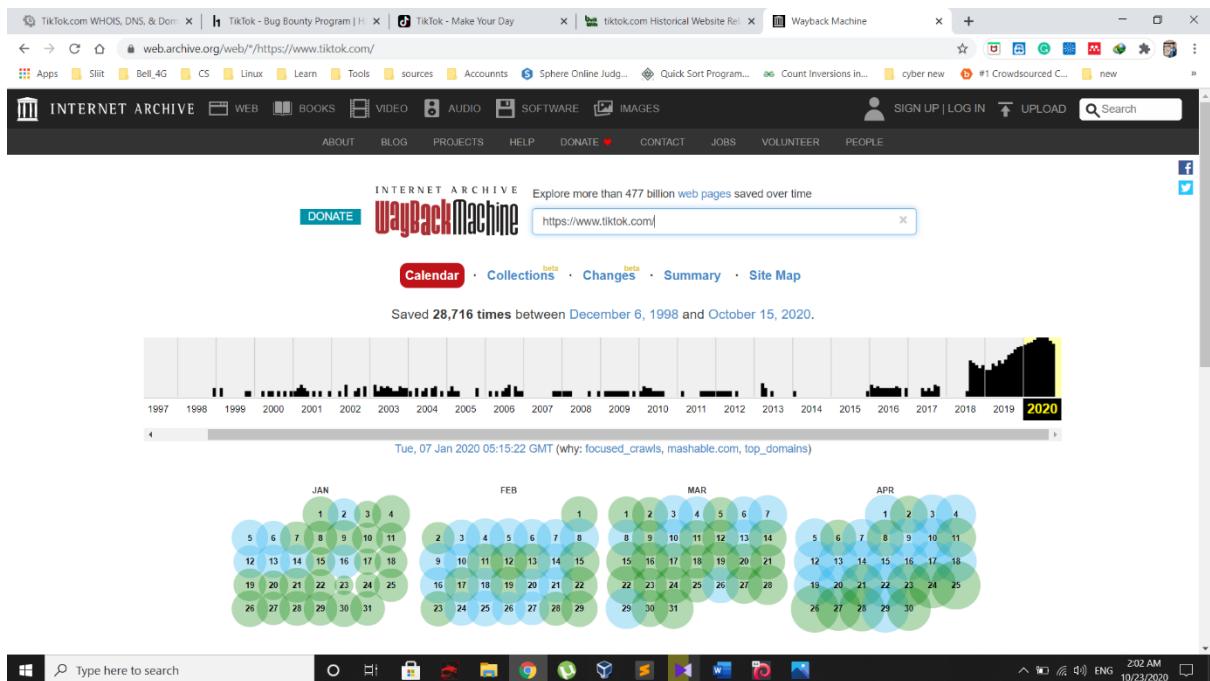
Google search results for `site:tiktok.com` (Page 2):

- [Page 2 of about 54,000,000 results \(0.17 seconds\)](#)
- [www.tiktok.com › contact](#)
- [Contact | TikTok](#)
Find regional contact information for customer support, business, advertising or PR inquiries.
- [www.tiktok.com › ...](#)
- [Make Your Day - TikTok](#)
TikTok adalah tempatnya video ponsel berdurasi pendek. Misi kami adalah untuk menangkap dan menyajikan kreativitas, pengetahuan, dan momen berharga ...
- [www.tiktok.com › ...](#)
- [Make Your Day - TikTok](#)
TikTok kısa mobil videolar için dünyadan önce gelen bir mecsidir. Görevimiz, doğrudan cep telefonunu kullanarak dünyada ortaya çıkan yaratıcılık, bilgi ve ...
- [www.tiktok.com › ...](#)
- [Make Your Day - TikTok](#)
TikTok es una plataforma para videos cortos en dispositivos móviles. Nuestra misión consiste en capturar y compartir la creatividad, los conocimientos y los ...
- [www.tiktok.com › ...](#)
- [Make Your Day - TikTok](#)
TikTok मार्गाइल पर छोट वीडियो की मौज़ित है। हमारा मिशन सोधे मोबाइल फोन से तुनिया की ...

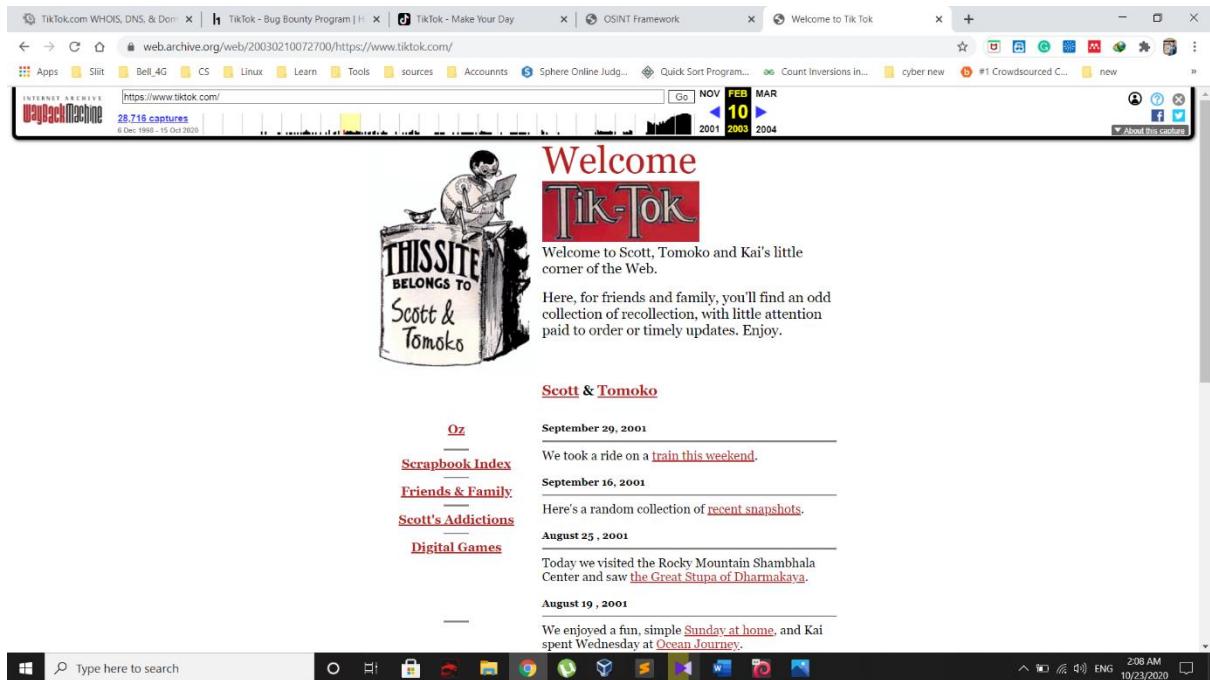


2.1.5. Go back in tiktok.com

I used “wayback machine” for look at the old pages in tiktok.com



Tiktok.com - 10th of February 2003



Tiktok.com - 6th of August 2018

