

# Strengthening Email Security Solutions & Validation Programs with a Disposable Emails Database

Posted on July 28, 2020



Email validation has become a necessity for organizations that aim to protect themselves against cybersecurity threats. The process becomes all the more relevant as [65% of attackers](#) use phishing as a primary infection vector. That's not a surprise, since attackers have long been weaponizing emails to serve as entry points for cyberattacks.

The ease with which threat actors can create disposable email addresses also contributes to the threat. In less than a minute, they can create a temporary email address with tons of providers, which they then use to send malware-laden and phishing messages to target victims. For this reason, a [disposable email domain database](#) can make email security vendors and email validation programs in general more robust and comprehensive. Let us elaborate on that.

## 2 Ways Email Solutions and Email Validation Program Can Benefit from the Integration of a Disposable Email Database

In a sense, temporary or disposable email services may serve as “privacy tools.” By using these services, people can avoid receiving spam emails on their real addresses. But fraudsters and other cybercriminals have also begun using temporary email addresses to execute attacks while keeping their identity hidden. Disposable email addresses have thus become akin to virtual private networks (VPNs) and proxy servers, which initially served a good cause.

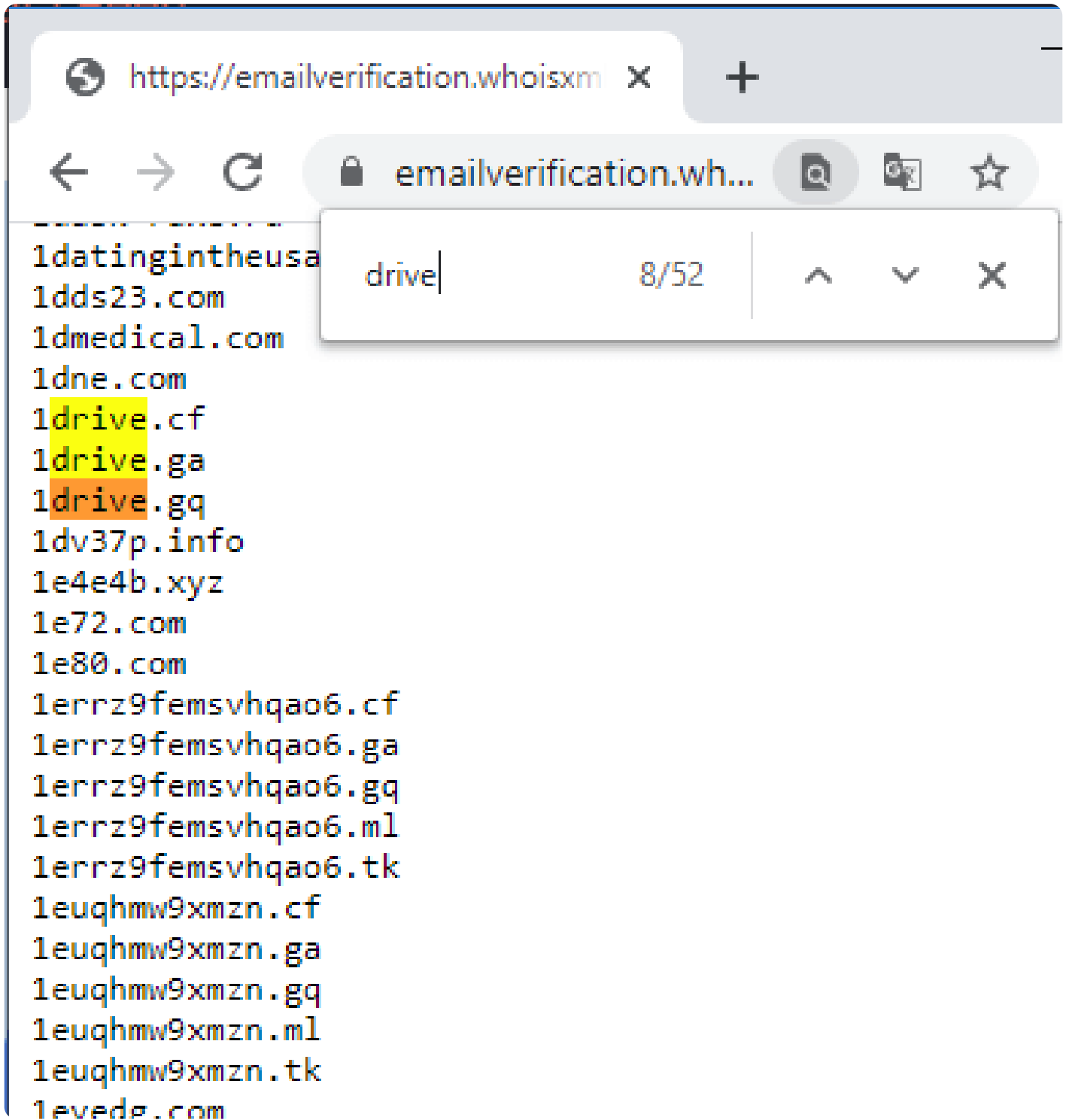
Since threat actors have found a way to weaponize them, it's usually best to filter disposable email addresses just as organizations block proxy users. By doing so, you weed out users who may have ill intentions or may not be interested in receiving follow-up brand communications. Sure, you may also sift out legitimate people who use disposable email addresses, but the danger of innocent employees falling for phishing emails far outweighs this.

### 1. Avoid Phishing by Blocking Disposable Email Addresses

In recent years, cybersecurity experts have seen a spike in attacks that use [shared file services](#) such as Office 365, OneDrive, and SharePoint. Employees would receive an email notification about their OneDrive account, for instance. Such emails could range from password expiry warnings to shared file notifications or voicemail alerts. Once the user clicks on the link embedded

in the email, the attackers can get hold of his/her login credentials. In some instances, users may download malware in the guise of an innocent-looking file, thereby infecting their network.

Threat actors typically use an email domain that closely resembles that of the shared files service provider. And this is consistent with what we found in our disposable email domain database. For instance, when we searched for the word “drive” (as in OneDrive) on the database, which contained more than 25,000 disposable email domains, we found 52 matching records.



Of the 52 domains, nine could be masquerading as a shared files service domain:

- Onedrive[.]cf
- Onedrive[.]ga
- Onedrive[.]gq
- Onedrive[.]ml
- Onedrive[.]tk
- 1drive[.]cf
- 1drive[.]ga
- 1drive[.]gq
- onedrive[.]web[.]id
- g00gledrive[.]ga
- skydrive[.]tk
- xyz-drive[.]info

An email validation program that doesn't filter disposable email addresses may let all emails from these domains reach their intended recipients. That said, clients may end up receiving emails from 1drive[.]ga, a malicious domain, according to [VirusTotal](#).

Of course, not all disposable email domains necessarily belong to bad actors, but not filtering them would also compromise clients and increase [phishing risks](#).

## 2. Avoid Spam Emails


Google revealed that it now [blocks 100 million](#) spam emails daily on Gmail by using artificial intelligence. Put into perspective, however, this may not be much considering that [107 billion](#) spam emails get sent every day.

A disposable email domain database can make email spam filters a lot more effective, as it immediately weeds out temporary email addresses mostly used by spammers.


Consider these spam messages with the subject line “Apple ID Locked.” The email domains used are [lslp6dpp-08448929\[.\]id](#) and [vqeadkdp-56899194\[.\]jp](#), which are already suspicious on their own.

• Apple ID Locked Yahoo/Spam ★

---

 • **Apple Support** <[REDACTED]@lslp6dpp-08448929.id> 📧 Mon, Apr 6 at 7:11 AM ★  
To: [REDACTED]

⚠️ For your security we disabled links in this email. If you believe it is safe to use, mark this message as not spam.



Dear Client,

Your Apple ID has been locked for security reasons. To unlock it, you must verify your identity.

[Unlock Account >](#)

If you don't unlock your account before 24 hours, your account will be disabled.

Sincerely,

Apple Support

• Apple ID Locked

Yahoo/Inbox ★



• Apple Support <[REDACTED]@vqeadkdp-56899194.jp>  
To: [REDACTED]



Thu, Mar 19 at 3:14 AM ★



Dear Client,

Your Apple ID has been locked for security reasons. To unlock it, you must verify your identity.

[Unlock Account >](#)

If you don't unlock your account before 24 hours, your account will be disabled.

Sincerely,

Apple Support

Both email domains are a combination of randomly generated alphanumeric characters, possibly generated by a disposable email service. Our disposable email domain database available for download contains hundreds of similar email domains. Below are some examples of them:



345v345t34t.cf	365.moe	3kk43.com	ptcks1ribhvupd3ixg.cf
345v345t34t.ga	3651se.com	3knloiai.mil.pl	ptcks1ribhvupd3ixg.ga
345v345t34t.gq	36552b.com	3kqvns1s1ft7kenhdv8.cf	ptcks1ribhvupd3ixg.gq
345v345t34t.ml	36552e.com	3kqvns1s1ft7kenhdv8.ga	ptcks1ribhvupd3ixg.ml
345v345t34t.tk	36552k.com	3kqvns1s1ft7kenhdv8.gq	ptcks1ribhvupd3ixg.tk
346345473.xyz	36552o.com	3kqvns1s1ft7kenhdv8.ml	ptjdhlu.pl
3464445.com	36552u.com	3kqvns1s1ft7kenhdv8.tk	ptll5r.us
3484445.com	36552x.com	3krtqc2fr7e.cf	ptolbv.info
348es7arsy2.cf	36552z.com	3krtqc2fr7e.ga	ptpigeaz0uorsrygsz.cf
348es7arsy2.ga	365600.info	3krtqc2fr7e.gq	ptpigeaz0uorsrygsz.ga
348es7arsy2.gq	365600.net	3krtqc2fr7e.ml	ptpigeaz0uorsrygsz.gq
348es7arsy2.ml	365600.xyz	3krtqc2fr7e.tk	ptpigeaz0uorsrygsz.ml
348es7arsy2.tk	365jjs.com	3kurge.us	ptpigeaz0uorsrygsz.tk
pxtv02fbb830f53fcd46.xyz	qb10em.info	sj206.com	
pxtv052d46b7e333b664.xyz	qb23c60behoymdve6xf.cf	sj20bt.net	
pxtv0e80b6e5b469e8dc.xyz	qb23c60behoymdve6xf.ga	sjadhasdhj3423.info	
pxtv15c3f2c6e0ce2b37.xyz	qb23c60behoymdve6xf.gq	sjck.icu	
pxtv1c4cb8a428306c18.xyz	qb23c60behoymdve6xf.ml	sjl0ec.us	
pxtv2a957f7925521397.xyz	qb23c60behoymdve6xf.tk	sjnq9o.us	
pxtv2ba2369697313665.xyz	qbaydx2cpv8.cf	sjokbl.shop	
pxtv2bcdd23327c95645.xyz	qbaydx2cpv8.ga	sjpvvp.org	
pxtv2d9adfcce7badf9a.xyz	qbaydx2cpv8.gq	sjqmiihs.shop	
pxtv2da8c6b4f6c5f609.xyz	qbaydx2cpv8.ml	sjrajufhwlb.cf	
pxtv47938c1abc5b0fb2.xyz	qbaydx2cpv8.tk	sjrajufhwlb.ga	
pxtv4975b124e768c0c5.xyz	qbesar.net	sjrajufhwlb.gq	
pxtv56c76c80b948b92a.xyz	qbex.pl	sjrajufhwlb.ml	
		sjrajufhwlb.tk	

Integrating a disposable email domain database into an email validation tool would, therefore, help weed out similar spam emails.

## How to Access the Disposable Email Domain Database

You can [request access to the disposable email domain database](#) here. If you don't have an account yet, don't hesitate to [contact us](#). Once logged in, you will see a complete list of databases,



arranged by date.

## Directory of [https://emailverification.whoisxmlapi.com/datafeeds/Disposable\\_Email\\_Domains/](https://emailverification.whoisxmlapi.com/datafeeds/Disposable_Email_Domains/)

(/Disposable\_Email\_Domains)

Login successful.

-rw-r--r--	1	ftp_admin	1005	636903	Nov	21	20:57	<a href="#">disposable-emails.full.2019-11-21.txt</a>
-rw-r--r--	1	ftp_admin	1005	637509	Nov	22	12:00	<a href="#">disposable-emails.full.2019-11-22.txt</a>
-rw-r--r--	1	ftp_admin	1005	637509	Nov	23	12:00	<a href="#">disposable-emails.full.2019-11-23.txt</a>
-rw-r--r--	1	ftp_admin	1005	637509	Nov	24	12:00	<a href="#">disposable-emails.full.2019-11-24.txt</a>
-rw-r--r--	1	ftp_admin	1005	637509	Nov	25	12:00	<a href="#">disposable-emails.full.2019-11-25.txt</a>
-rw-r--r--	1	ftp_admin	1005	637509	Nov	26	12:00	<a href="#">disposable-emails.full.2019-11-26.txt</a>
-rw-r--r--	1	ftp_admin	1005	637509	Nov	27	12:00	<a href="#">disposable-emails.full.2019-11-27.txt</a>
-rw-r--r--	1	ftp_admin	1005	645258	Nov	28	12:00	<a href="#">disposable-emails.full.2019-11-28.txt</a>
-rw-r--r--	1	ftp_admin	1005	648102	Nov	29	12:00	<a href="#">disposable-emails.full.2019-11-29.txt</a>
-rw-r--r--	1	ftp_admin	1005	648400	Nov	30	12:00	<a href="#">disposable-emails.full.2019-11-30.txt</a>
-rw-r--r--	1	ftp_admin	1005	648400	Dec	01	12:00	<a href="#">disposable-emails.full.2019-12-01.txt</a>
-rw-r--r--	1	ftp_admin	1005	648400	Dec	02	12:00	<a href="#">disposable-emails.full.2019-12-02.txt</a>
-rw-r--r--	1	ftp_admin	1005	648400	Dec	03	12:00	<a href="#">disposable-emails.full.2019-12-03.txt</a>
-rw-r--r--	1	ftp_admin	1005	649802	Dec	04	12:00	<a href="#">disposable-emails.full.2019-12-04.txt</a>
-rw-r--r--	1	ftp_admin	1005	650188	Dec	05	12:00	<a href="#">disposable-emails.full.2019-12-05.txt</a>
-rw-r--r--	1	ftp_admin	1005	650166	Dec	06	12:00	<a href="#">disposable-emails.full.2019-12-06.txt</a>
-rw-r--r--	1	ftp_admin	1005	653616	Dec	07	12:00	<a href="#">disposable-emails.full.2019-12-07.txt</a>
-rw-r--r--	1	ftp_admin	1005	654094	Dec	08	12:00	<a href="#">disposable-emails.full.2019-12-08.txt</a>
-rw-r--r--	1	ftp_admin	1005	654021	Dec	09	12:00	<a href="#">disposable-emails.full.2019-12-09.txt</a>
-rw-r--r--	1	ftp_admin	1005	659403	Dec	10	12:00	<a href="#">disposable-emails.full.2019-12-10.txt</a>
-rw-r--r--	1	ftp_admin	1005	659402	Dec	11	12:00	<a href="#">disposable-emails.full.2019-12-11.txt</a>
-rw-r--r--	1	ftp_admin	1005	659406	Dec	12	12:00	<a href="#">disposable-emails.full.2019-12-12.txt</a>
-rw-r--r--	1	ftp_admin	1005	659981	Dec	13	12:00	<a href="#">disposable-emails.full.2019-12-13.txt</a>
-rw-r--r--	1	ftp_admin	1005	663518	Dec	14	12:00	<a href="#">disposable-emails.full.2019-12-14.txt</a>
-rw-r--r--	1	ftp_admin	1005	663146	Dec	15	12:00	<a href="#">disposable-emails.full.2019-12-15.txt</a>
-rw-r--r--	1	ftp_admin	1005	663292	Dec	16	12:00	<a href="#">disposable-emails.full.2019-12-16.txt</a>
-rw-r--r--	1	ftp_admin	1005	663439	Dec	17	12:00	<a href="#">disposable-emails.full.2019-12-17.txt</a>
-rw-r--r--	1	ftp_admin	1005	663529	Dec	18	12:00	<a href="#">disposable-emails.full.2019-12-18.txt</a>
-rw-r--r--	1	ftp_admin	1005	663290	Dec	19	12:00	<a href="#">disposable-emails.full.2019-12-19.txt</a>
-rw-r--r--	1	ftp_admin	1005	671794	Dec	20	12:00	<a href="#">disposable-emails.full.2019-12-20.txt</a>
-rw-r--r--	1	ftp_admin	1005	672627	Dec	21	12:00	<a href="#">disposable-emails.full.2019-12-21.txt</a>
-rw-r--r--	1	ftp_admin	1005	672851	Dec	22	12:00	<a href="#">disposable-emails.full.2019-12-22.txt</a>
-rw-r--r--	1	ftp_admin	1005	672593	Dec	23	12:00	<a href="#">disposable-emails.full.2019-12-23.txt</a>
-rw-r--r--	1	ftp_admin	1005	672691	Dec	24	12:00	<a href="#">disposable-emails.full.2019-12-24.txt</a>
-rw-r--r--	1	ftp_admin	1005	673229	Dec	25	12:00	<a href="#">disposable-emails.full.2019-12-25.txt</a>
-rw-r--r--	1	ftp_admin	1005	681714	Dec	26	12:00	<a href="#">disposable-emails.full.2019-12-26.txt</a>
-rw-r--r--	1	ftp_admin	1005	681711	Dec	27	12:00	<a href="#">disposable-emails.full.2019-12-27.txt</a>
-rw-r--r--	1	ftp_admin	1005	681711	Dec	28	12:00	<a href="#">disposable-emails.full.2019-12-28.txt</a>

You can find the most recent database that contains all disposable email domains at the bottom of the index.

---

Disposable email addresses may have some legitimate uses, but since they can be used as attack vectors, security protocol usually ensures that these are blocked outright or are at least investigated before being granted access to an organization's network. Therefore, an email validation application or program that aims to protect users from phishing and spam should also integrate a disposable email domain database.

*Would you like to learn more about using a disposable email database and our other email validation products? [Contact us](#) for more information.*