

verify sdnog domain with google postmaster tool

This page was written by Sara Alamin sdnog team, on 25 October 2021

We have noticed some participants subscribe to [sdnog mailing list](#) using gmail accounts. and they do not receive some of the list's email and some being forwarded to the Junk folder. this because the DKIM and DMARC fail with domain gmail.com

Original Message

Message ID	<CAJpJ9tvEkT5Y-hePD9NOhDtQRzw+3Hd9tOw1VGgXC74QMkv9Qg@mail.gmail.com>
Created at:	Mon, Jul 12, 2021 at 10:29 AM (Delivered after 85 seconds)
From:	sara alamin
To:	Sudan NOG <sdnog@sdnog.sd>
Subject:	[sdnog] FWD: RPKI Week - Join us!
SPF:	PASS with IP 196.10.53.12 Learn more
DKIM:	'FAIL' with domain gmail.com Learn more
DMARC:	'FAIL' Learn more

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so there are many steps need to be fixed , one of them verifying the sdnog.sd domain with google Postmaster Tools, and here we will see how could be done.

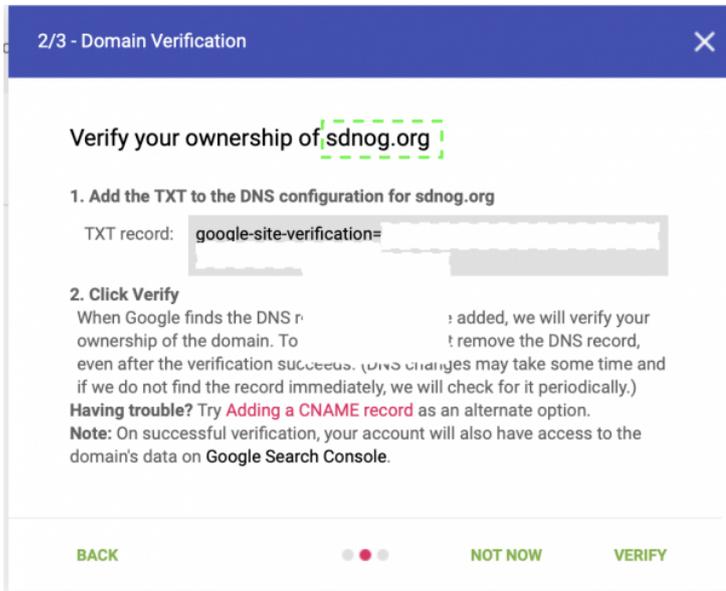
1. You need to generate a DNS validation key TXT resource record from google [Postmaster Tools](#) using a gmail account. login and the enter domain name you want to verify

1/3 - Getting Started ✕

What domain do you use to authenticate your email?

Enter the domain used to authenticate your mail with SPF or DKIM. Refer to the [help page](#) for more details.

2. then copy the TXT record and add this to your DNS zone file , and then click on verify.



3. after few minutes, the domain will be verified.

Domain	Status	Added
sdnog.sd	Verified	Oct 24, 2021
Attempted	Method	Outcome
0 minutes ago - October 24, 2021 at 2:14:34 PM UTC	DNS TXT record	Verification succeeded.

Troubleshooting

the above steps seems very easy to do. but while we are doing this for sdnog.sd we found some issues. We added the TXT record to the zone, but it was not propagated to DNS secondaries:

```
$ dig txt sdnog.sd
;; ANSWER SECTION:
sdnog.sd. 60 IN TXT "v=spf1 mx a ip4:196.10.53.12 ip6:2001:43f8:1f3:a00::12 a:mail.sdnog.sd ~all"
```

so we noticed not all sdnog secondaries servers are synced, using "dig soa sdnog.sd +nssearch" command:

```
$ dig soa sdnog.sd +nssearch | awk -F ' ' '{print $4, $10, $11}'
2021051905 server 185.70.56.53
2021051905 server 193.110.181.53
2021102409 server 206.220.228.134
2021051905 server 196.10.54.53
2021102409 server 196.216.2.1
2021051905 server 196.10.55.53
2021051905 server 196.10.52.53
```

so we checked the acl section and " allow-transfer" option to know if we have any limitation on how the zone could be transferred.

after fixing some configuration here, we updated the "Serial" time for the zone and restarted the service. and now everything is fine

```
$ dig txt sdnog.sd
;; ANSWER SECTION:
sdnog.sd. 60 IN TXT "v=spf1 mx a ip4:196.10.53.12 ip6:2001:43f8:1f3:a00::12 a:mail.sdnog.sd ~all"
sdnog.sd. 60 IN TXT "google-site-verification=FijZa4-e16D4V2Vqe6gnMgWa5fALU6tozOzWeOtOtgo"
```

and all the secondaries are synced :

```
$ dig soa sdnog.sd +nssearch | awk -F ' ' {print $4, $10, $11}'
2021102409 server 185.70.56.53
2021102409 server 193.110.181.53
2021102409 server 206.220.228.134
2021102409 server 196.216.2.1
2021102409 server 196.10.54.53
2021102409 server 196.10.55.53
2021102409 server 196.10.52.53
```

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