joe@mail:~\$ echo "How can we troubleshoot email??"
How can we troubleshoot email??
joe@mail:~\$ echo "The first place to look will be the exim/mainlog"
The first place to look will be the exim/mainlog
joe@mail:~\$ less /var/log/exim4/mainlog

```
⊕ ~
                                           joe@mail: ~
2023-08-09 20:17:00 1qTpc3-000EiH-NF TLS session: (certificate verification failed): certi
ficate invalid: delivering unencrypted to H=stumail.cs.utahtech.edu [144.38.192.231] (not
in hosts require tls)
2023-08-09 20:17:00 1qTpc3-000EiH-NF => joe.francom@utahtech.edu R=smarthost T=remote_smtp
smarthost H=stumail.cs.utahtech.edu [144.38.192.231] K C="250- 666 byte chunk, total 666\
\n250 OK id=1qTpc4-0001VV-6D"
2023-08-09 20:17:00 lqTpc3-000EiH-NF Completed
2023-08-09 20:17:08 TLS error on connection from [144.38.199.38] (recv): A TLS fatal alert
 has been received: Certificate is bad
2023-08-09 20:17:08 1qTpcC-000EiP-ES <= bob@www.thegummibear.com H=(www.thegummibear.com)
[144.38.199.38] P=esmtp K S=649 id=E1qTpcC-000LpN-00@www.thegummibear.com
2023-08-09 20:17:09 1qTpcC-000EiP-ES TLS session: (certificate verification failed): certi
ficate invalid: delivering unencrypted to H=stumail.cs.utahtech.edu [144.38.192.231] (not
in hosts require tls)
2023-08-09 20:17:09 1qTpcC-000EiP-ES => dixiejoe2020@gmail.com R=smarthost T=remote smtp s
marthost H=stumail.cs.utahtech.edu [144.38.192.231] K C="250- 668 byte chunk, total 668\\n
250 OK id=1qTpcD-0001Vg-Go"
2023-08-09 20:17:09 1qTpcC-000EiP-ES Completed
2023-08-09 20:28:27 TLS error on connection from [144.38.199.38] (recv): A TLS fatal alert
has been received: Certificate is bad
2023-08-09 20:28:27 1qTpn9-000EiX-PF <= bob@www.thegummibear.com H=(www.thegummibear.com)
[144.38.199.38] P=esmtp K S=671 id=E1qTpn9-000LpY-7F@www.thegummibear.com
2023-08-09 20:28:28 1qTpn9-000EiX-PF TLS session: (certificate verification failed): certi
ficate invalid: delivering unencrypted to H=stumail.cs.utahtech.edu [144.38.192.231] (not
in hosts require tls)
2023-08-09 20:28:28 1qTpn9-000EiX-PF => dixiejoe2020@gmail.com R=smarthost T=remote smtp s
marthost H=stumail.cs.utahtech.edu [144.38.192.231] K C="250- 690 byte chunk, total 690\\n
250 OK id=1qTpnA-0001WX-ES"
2023-08-09 20:28:28 1qTpn9-000EiX-PF Completed
(END)
```





joe@mail:~\$ echo "You should see that email completed on a successful send, if it is not s
uccessful, you may see a helpful error message"

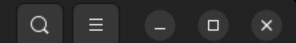
You should see that email completed on a successful send, if it is not successful, you may see a helpful error message

joe@mail:~\$ echo "If you are doing the smtp simple assignment, you really might only look
in this file, and/or make sure that DNS is working correctly"

If you are doing the smtp simple assignment, you really might only look in this file, and/ or make sure that DNS is working correctly

joe@mail:~\$





joe@mail:~\$ echo "If you are doing the satellite assignment, you would check that logfile
on both the satellite AND the mail server. Your satellite MUST send email through your mai
lserver. Your mailserver in turn relays mail through stumail"

If you are doing the satellite assignment, you would check that logfile on both the satell ite AND the mail server. Your satellite MUST send email through your mailserver. Your mail server in turn relays mail through stumail

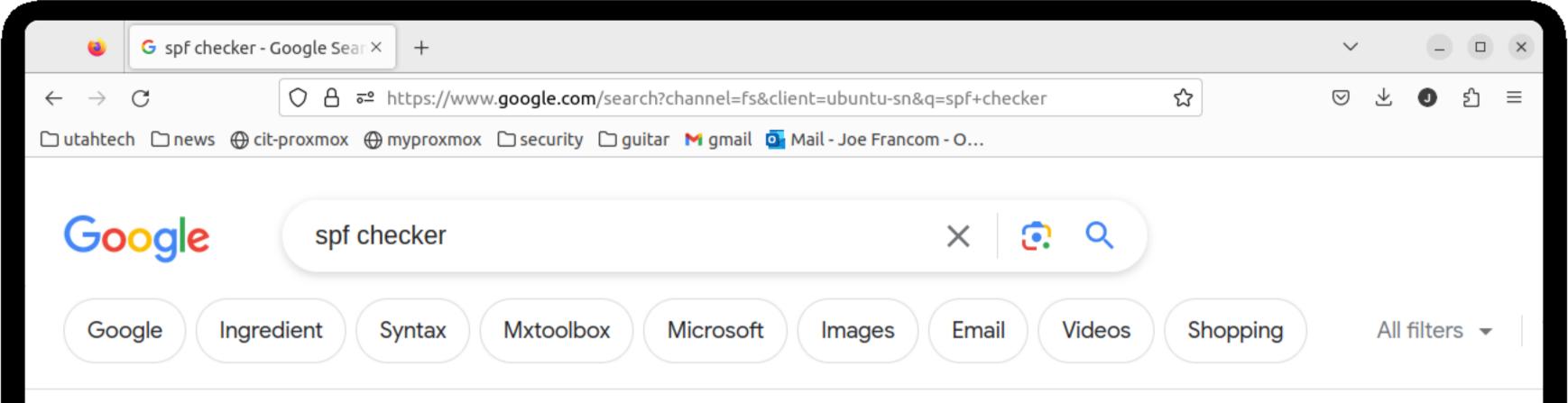
joe@mail:~\$

F1 ~

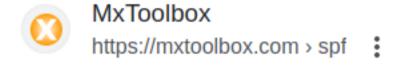


joe@mail:~\$ echo "Here is a good tool for checking that your SPF and dns is working correc
tly"

Here is a good tool for checking that your SPF and dns is working correctly joe@mail:~\$

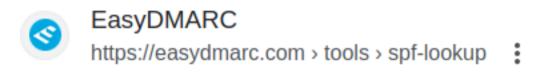


About 89,900,000 results (0.29 seconds)



SPF Check & SPF Lookup - Sender Policy Framework (SPF)

ABOUT SPF RECORD CHECK. The SPF Record Check is a diagnostic tool that acts as a Sender Policy Framework (SPF) record lookup and **SPF validator**.



SPF Record Checker and Lookup Tool

Check if an SPF record is published on a domain and deployed correctly, identify its issues, and validate your SPF record. Check Your SPF Record Now!

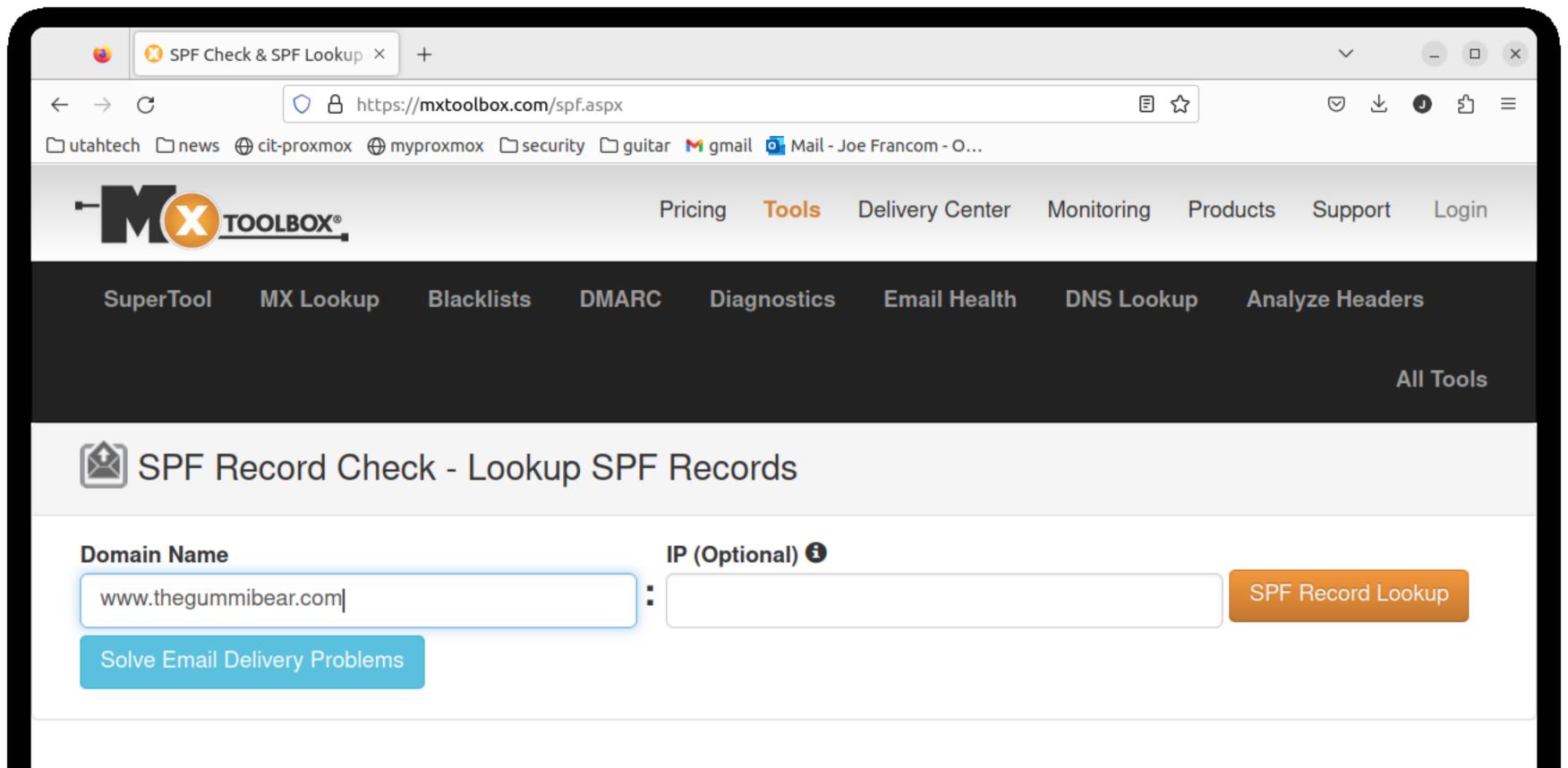
SPF tags and their definitions · How To Check SPF Record via...



Mimecast

https://www.mimecast.com > products > spf-record-ch...

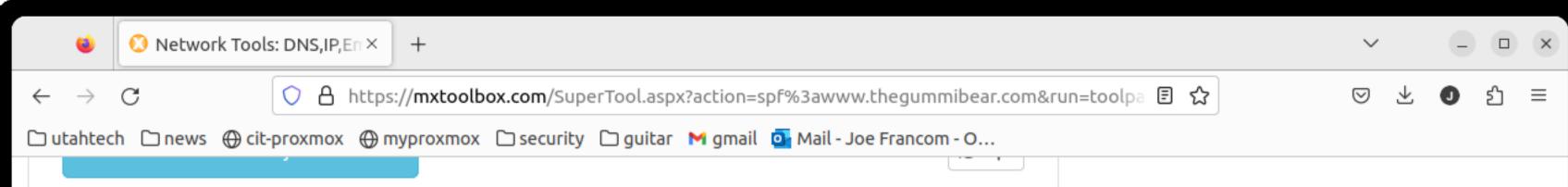
SPF Record Check - DMARC Analyzer



ABOUT SPF RECORD CHECK

The SPF Record Check is a diagnostic tool that acts as a Sender Policy Framework (SPF) record lookup and SPF validator. This test will lookup an SPF record for the queried domain name, display the SPF Record (if found), and run a series of diagnostic tests (SPF Validation) against the record, highlighting any errors found with the record that could impact email delivery.

Sender Policy Framework (SPF) records allow domain owners to publish a list of IP addresses or subnets that are authorized to send email on their behalf. The goal is to

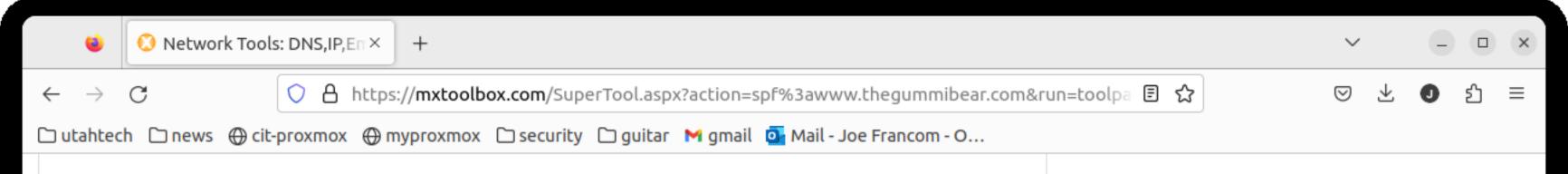


ARE YOU CONFIDENT that your email is getting through? FIND OUT WITH DELIVERY CENTER

v=spf1 mx ip4:144.38.192.231 a:stumail.cs.utahtech.edu ~all

Prefix	Туре	Value	PrefixDesc	Description
Prefix	Typev	Valuespf1	PrefixDesc	DescriptionThe SPF record version
Prefix+	Typemx	Value	PrefixDescPass	DescriptionMatch if IP is one of the MX hosts for given domain name.
Prefix+	Typeip4	Value144.38.192.231	PrefixDescPass	DescriptionMatch if IP is in the given range.
Prefix+	Typea	Valuestumail.cs.utahtech.edu	PrefixDescPass	DescriptionMatch if IP has a DNS 'A' record in given domain.
Prefix~	Typeall	Value	PrefixDescSoftFail	DescriptionAlways matches. It goes at the end of your record.

	Test	Result	
Status	NameSPF Record Published	ResponseSPF Record found	

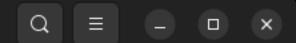


	Test	Result
Status	NameSPF Record Published	ResponseSPF Record found
Status	NameSPF Record Deprecated	ResponseNo deprecated records found
Status	NameSPF Multiple Records	ResponseLess than two records found
Status	NameSPF Contains characters after ALL	ResponseNo items after 'ALL'.
Status	NameSPF Syntax Check	ResponseThe record is valid
Status	NameSPF Included Lookups	ResponseNumber of included lookups is OK
Status	NameSPF Type PTR Check	ResponseNo type PTR found
Status	NameSPF Void Lookups	ResponseNumber of void lookups is OK
Status	NameSPF MX Resource Records	ResponseNumber of MX Resource Records is OK
Status	NameSPF Record Null Value	ResponseNo Null DNS Lookups found

dns lookup smtp diag blacklist http test dns propagation
Reported by **ns2.thegummibear.com** on 8/9/2023 at **3:36:34 PM (UTC -5)**, just for you.

yB





joe@mail:~\$ echo "if you have ANY errors on that page, go fix your DNS. The likely issues
are a malformed SPF TXT record, or you haven't input the MX records for all your satellite
s"

if you have ANY errors on that page, go fix your DNS. The likely issues are a malformed SP F TXT record, or you haven't input the MX records for all your satellites joe@mail:~\$