

How to Easily Set Up a Full-Featured Linux Mail Server on Ubuntu 18.04.5 LTS with iRedMail 1.4.0

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*****IMPORTANT NOTICE*** Please note that Turritopsis Dohrnii Teo En Ming's guide is based on Xiao Guoan's guide at [linuxbabe.com](https://www.linuxbabe.com).**

Reference Guide Used by Teo En Ming: [How to Easily Set Up a Full-Featured Mail Server on Ubuntu 18.04 with iRedMail](#)

Link: <https://www.linuxbabe.com/mail-server/ubuntu-18-04-iredmail-email-server>

Original Author: Xiao Guoan

The following is a list of open-source software that will be automatically installed and configured by iRedMail.

- Postfix SMTP server
- Dovecot IMAP server
- Nginx web server to serve the admin panel and webmail
- OpenLDAP, MySQL/MariaDB, or PostgreSQL for storing user information
- Amavised-new for DKIM signing and verification
- SpamAssassin for anti-spam
- ClamAV for anti-virus
- Roundcube webmail
- SOGo groupware, providing webmail, calendar (CalDAV), contacts (CardDAV), tasks and ActiveSync services.
- Fail2ban for protecting SSH
- mlmmj mailing list manager
- Netdata server monitoring
- iRedAPD Postfix policy server for greylisting

START OF DETAILED INSTRUCTIONS

Step 1: Register for a Virtual Private Server (VPS) at Contabo.com

Go to <https://contabo.com/>

Turritopsis Dohrnii Teo En Ming chose the following Virtual Private Server plan.

Virtual Private Servers
(VPS)

VPS S SSD

\$6.99
/ month

- ✓ 4 vCPU Cores
- ✓ 8 GB RAM
- ✓ 200 GB SSD
- ✓ 200 Mbit/s Port
- ✓ 1 Snapshot

Select

Asia Region now available. **No Setup Fee for the first 1000 VPS orders in Singapore!**

Quality VPS and Dedicated Servers at Incredible Prices

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High-Performance VPS
Fast SSD disks from \$6.99

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your VPS

[Virtual Private Servers \(VPS\)](#) > VPS S SSD

VPS S SSD

Monthly Base Price \$6.99

CPU	RAM	STORAGE	PORT	SNAPSHOT
4 vCPU Cores	8 GB RAM	200 GB SSD	200 Mbit/s Port	1 Snapshot

Initial Contract Period

1 Month

\$6.99
Setup fee

Order Summary

[Share](#)

VPS S SSD

x

1

Details

- Contract Period: 1 Month
- Asia (Singapore)
- Ubuntu 18.04

Monthly

\$9.99

One Off

\$0.00

Next

Region

European Union (Germany)

United States (Missouri)

\$1.25

Asia (Singapore)

No Setup Fee - First 1000 Only

\$3.00

Image

Popular

OS

Apps & Panels

Ubuntu
Ubuntu 18.04
Free

Cent OS
Cent OS 8
Free

Windows Server
Windows Server 2019 Datacenter
\$7.99

Order Summary

[Share](#)

VPS S SSD

x

1

Details

- Contract Period: 1 Month
- Asia (Singapore)
- Ubuntu 18.04

Monthly

\$9.99

One Off

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Next

Secure Checkout

Networking

Transfer Included

IPv4 Included

Add-Ons

Backup Space

Server Management Included

Monitoring

SSL

Setup Included

Order Summary

[Share](#)

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x

1

Details

- Contract Period: 1 Month
- Asia (Singapore)
- Ubuntu 18.04

Monthly

\$9.99

One Off

\$0.00

Next

Secure Checkout

Register or Login

I'm new to Contabo

I'm a Contabo Customer

Enter your details below or [log in here if you're already a customer](#)

Select your Status

Private Individual

Business

i You can add separate invoice details in the Customer Control Panel later

Salutation

First Name

Last Name

Mr

Turritopsis Dohrnii

Teo En Ming

Address

Singapore

Order Summary [Change](#)

VPS S SSD x 1

Details

- Contract Period: 1 Month
- Asia (Singapore)
- Ubuntu 18.04

Monthly *?* **\$9.99**

One Off *?* **\$0.00**

root@vmi576090: ~

login as: root

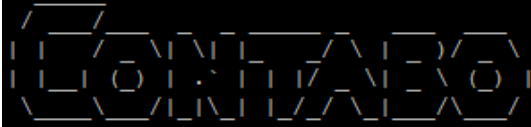
root@194.233.66.226's password:

Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0-142-generic x86_64)

- * Documentation: <https://help.ubuntu.com>
- * Management: <https://landscape.canonical.com>
- * Support: <https://ubuntu.com/advantage>

New release '20.04.2 LTS' available.

Run 'do-release-upgrade' to upgrade to it.



Welcome!

This server is hosted by Contabo. If you have any questions or need help, please don't hesitate to contact us at support@contabo.com.

root@vmi576090:~# uname -a

Linux vmi576090.contaboserver.net 4.15.0-142-generic #146-Ubuntu SMP Tue Apr 13 01:11:19 UTC 2021 x86_64 x86_64 x86_64 GNU/Linux

root@vmi576090:~#

Step 2: Creating DNS MX Record

Type *

MX

Host *

@

Points to *

mail.teo-en-ming-corp.com

Priority *

0

TTL *

1 Hour

Save






Cancel

Type *
Host *
Points to *

TTL *

Records

Last updated 25/4/21 2:06 PM

Type	Name	Value	TTL	
A	@	Parked	600 seconds	
CNAME	www	@	1 Hour	
CNAME	_domainconnect	_domainconnect.gd.domaincontrol.com	1 Hour	
NS	@	ns37.domaincontrol.com	1 Hour	
NS	@	ns38.domaincontrol.com	1 Hour	
SOA	@	Primary nameserver: ns37.domaincontrol.co...	1 Hour	
MX	@	mail.teo-en-ming-corp.com (Priority: 0)	1 Hour	
A	mail	194.233.66.226	1 Hour	

[ADD](#)

```

C:\> Command Prompt - nslookup
Microsoft Windows [Version 10.0.19042.928]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Teo En Ming>nslookup
Default Server: UnKnown
Address: 192.168.124.131

> server 8.8.8.8
Default Server: dns.google
Address: 8.8.8.8

> set type=mx
> teo-en-ming-corp.com
Server: dns.google
Address: 8.8.8.8

Non-authoritative answer:
teo-en-ming-corp.com MX preference = 0, mail exchanger = mail.teo-en-ming-corp.com
>

```

```
Command Prompt - nslookup

Microsoft Windows [Version 10.0.19042.928]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Teo En Ming>nslookup
Default Server: UnKnown
Address: 192.168.124.131

> server 8.8.8.8
Default Server: dns.google
Address: 8.8.8.8

> set type=mx
> teo-en-ming-corp.com
Server: dns.google
Address: 8.8.8.8

Non-authoritative answer:
teo-en-ming-corp.com MX preference = 0, mail exchanger = mail.teo-en-ming-corp.com
> set type=a
> mail.teo-en-ming-corp.com
Server: dns.google
Address: 8.8.8.8

DNS request timed out.
 timeout was 2 seconds.
Non-authoritative answer:
Name: mail.teo-en-ming-corp.com
Address: 194.233.66.226

>
```

```
Command Prompt

C:\Users\Teo En Ming>ping mail.teo-en-ming-corp.com

Pinging mail.teo-en-ming-corp.com [194.233.66.226] with 32 bytes of data:
Reply from 194.233.66.226: bytes=32 time=253ms TTL=50
Reply from 194.233.66.226: bytes=32 time=288ms TTL=50
Reply from 194.233.66.226: bytes=32 time=253ms TTL=50
Reply from 194.233.66.226: bytes=32 time=278ms TTL=50

Ping statistics for 194.233.66.226:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 253ms, Maximum = 288ms, Average = 268ms

C:\Users\Teo En Ming>
```

Step 3: Configuring Hostname in Ubuntu 18.04.5 LTS Linux Server

```
# apt update
# apt upgrade
# hostnamectl set-hostname mail.teo-en-ming-corp.com

# nano /etc/hosts

127.0.0.1 mail.teo-en-ming-corp.com localhost

# hostname -f

mail.teo-en-ming-corp.com
```

Step 4: Setting up Linux Mail Server on Ubuntu 18.04.5 LTS with iRedMail 1.4.0

```
# wget https://github.com/iredmail/iRedMail/archive/1.4.0.tar.gz
# tar xvf 1.4.0.tar.gz
# cd iRedMail-1.4.0/
# chmod +x iRedMail.sh
# ./iRedMail.sh
```

```
root@mail: ~/iRedMail-1.4.0
iRedMail: Open_Source_Mail_Server_Solution
Welcome and thanks for your use
Welcome to the iRedMail setup wizard, we will ask you some simple
questions required to setup a mail server. If you encounter any trouble
or issues, please report to our support forum:
https://forum.iredmail.org/
NOTE: You can abort this installation wizard by pressing key Ctrl-C.
< Yes > < No >
```

```
root@mail: ~/iRedMail-1.4.0
iRedMail: Open_Source_Mail_Server_Solution
Default mail storage path
Please specify a directory (in lowercase) used to store user mailboxes.
Default is: /var/vmail
NOTES:
* Depends on the mail traffic, it may take large disk space.
* Maildir path will be converted to lowercases, so please create this
  directory in lowercases.
* It cannot be /var/mail or /root.
* Mailboxes will be stored under its sub-directory: /var/vmail/vmail/
* Daily backup of SQL/LDAP databases will be stored under another
  sub-directory: /var/vmail/backup.
x/var/vmail
< Next >
```

```
root@mail: ~/iRedMail-1.4.0
iRedMail: Open_Source_Mail_Server_Solution
Preferred web server
Choose a web server you want to run.
TIP: Use SPACE key to select item.
(*) Nginx The fastest web server
() No web server I don't need any web applications on this server
< Next >
```

```
root@mail: ~/iRedMail-1.4.0
iRedMail: Open_Source_Mail_Server_Solution
Choose preferred backend used to store mail accounts
It's strongly recommended to choose the one you're familiar with for
easy maintenance. They all use the same webmail (Roundcube) and admin
panel (iRedAdmin), and no big feature differences between them.
TIP: Use SPACE key to select item.
(*) MariaDB An enhanced, drop-in replacement for MySQL
() PostgreSQL Powerful, open source database system
< Next >
```

```
root@mail: ~/iRedMail-1.4.0
iRedMail: Open_Source_Mail_Server_Solution
Password for MySQL administrator: root
Please specify password for MySQL administrator root on server
127.0.0.1.
WARNING:
* Do *NOT* use double quote (") in password.
* EMPTY password is *NOT* permitted.
* Sample password: QeSzT9kpmghrfragAONIjKbneuXh19Uf
Please specify password for MySQL administrator root on server
x*****
Please specify password for MySQL administrator root on server
< Next >
```

```
root@mail: ~/iRedMail-1.4.0
iRedMail: Open_Source_Mail_Server_Solution
Your first mail domain name
Please specify your first mail domain name.
EXAMPLE:
* example.com
WARNING:
It can *NOT* be the same as server hostname: mail.teo-en-ming-corp.com.
We need Postfix to accept emails sent to system accounts (e.g. root), if
your mail domain is same as server hostname, Postfix won't accept any
email sent to this mail domain.
Please specify your first mail domain name
xteo-en-ming-corp.com
Please specify your first mail domain name
< Next >
```



```
root@mail: ~/iRedMail-1.4.0
iRedMail: Open_Source_Mail_Server_Solution
Password for the mail domain administrator:
Please specify password for the mail domain administrator:
* postmaster@teo-en-ming-corp.com
You can login to webmail and iRedAdmin with this account.
WARNING:
* Do *NOT* use special characters (like $, white space) in password.
* EMPTY password is *NOT* permitted.
* Sample password: R5JyHnYaG7EafwBDNdG7NWuXiLYPcj4
l*****
m*****
< Next >
```

```
root@mail: ~/iRedMail-1.4.0
iRedMail: Open_Source_Mail_Server_Solution
Optional components
* DKIM signing/verification and SPF validation are enabled by default.
* DNS records for SPF and DKIM are required after installation.
Refer to below file for more detail after installation:
* /root/iRedMail-1.4.0/iRedMail.tips
l*****
x [*] Roundcubemail Fast and lightweight webmail
x [*] SOGo Webmail, Calendar, Address book, ActiveSync
x [*] netdata Awesome_system_monitor
x [*] iRedAdmin Official_web-based_Admin_Panel
x [*] Fail2ban Ban_IP_with_too_many_password_failures
m*****
< Next >
```

```
*****
***** WARNING *****
*****
*
* Below file contains sensitive information (username/password), please
* do remember to *MOVE* it to a safe place after installation.
*
*   * /root/iRedMail-1.4.0/config
*
*****
***** Review your settings *****
*****
* Storage base directory:           /var/vmail
* Mailboxes:
* Daily backup of SQL/LDAP databases:
* Store mail accounts in:          MariaDB
* Web server:                       Nginx
* First mail domain name:          teo-en-ming-corp.com
* Mail domain admin:               postmaster@teo-en-ming-corp.com
* Additional components:           Roundcubemail SOGo netdata iRedAdmin Fail2ban
< Question > Continue? [y|N]y
```

```
*****
* Start iRedMail Configurations
*****
[ INFO ] Generate self-signed SSL cert (4096 bits, expire in 10 years).
[ INFO ] Generate Diffie Hellman Group with openssl, please wait.
[ INFO ] Create required system accounts.
[ INFO ] Configure MariaDB database server.
[ INFO ] Setup daily cron job to backup SQL databases with /var/vmail/backup/backup_mysql.sh
[ INFO ] Configure Postfix (MTA).
[ INFO ] Configure Dovecot (POP3/IMAP/Managesieve/LMTP/LDA).
[ INFO ] Configure Nginx web server.
[ INFO ] Configure PHP.
[ INFO ] Configure mlmmj (mailing list manager).
[ INFO ] Configure ClamAV (anti-virus toolkit).
[ INFO ] Configure Amavisd-new (interface between MTA and content checkers).
[ INFO ] Configure SpamAssassin (content-based spam filter).
[ INFO ] Configure iRedAPD (postfix policy daemon).
[ INFO ] Configure iRedAdmin (official web-based admin panel).
[ INFO ] Configure Roundcube webmail.
[ INFO ] Configure SOGo Groupware (Webmail, Calendar, Address Book, ActiveSync).
[ INFO ] Configure Fail2ban (authentication failure monitor).
[ INFO ] Configure netdata (system and application monitor).

*****
* iRedMail-1.4.0 installation and configuration complete.
*****
< Question > Would you like to use firewall rules provided by iRedMail?
< Question > File: /etc/nftables.conf, with SSHD ports: 22. [Y|n]Y
```

```
*****
* iRedMail-1.4.0 installation and configuration complete.
*****
< Question > Would you like to use firewall rules provided by iRedMail?
< Question > File: /etc/nftables.conf, with SSHD ports: 22. [Y|n]Y
[ INFO ] Copy firewall sample rules.
< Question > Restart firewall now (with ssh ports: 22)? [y|N]y
```

```
*****
* iRedMail-1.4.0 installation and configuration complete.
*****
```

```
< Question > Would you like to use firewall rules provided by iRedMail?
< Question > File: /etc/nftables.conf, with SSHD ports: 22. [Y|n]Y
[ INFO ] Copy firewall sample rules.
< Question > Restart firewall now (with ssh ports: 22)? [y|N]y
[ INFO ] Restarting firewall ...
[ INFO ] Updating ClamAV database (freshclam), please wait ...
ERROR: /var/log/clamav/freshclam.log is locked by another process
```

```
*****
```

* URLs of installed web applications:

*

* - Roundcube webmail: <https://mail.teo-en-ming-corp.com/mail/>

* - SOGo groupware: <https://mail.teo-en-ming-corp.com/SOGo/>

* - netdata (monitor): <https://mail.teo-en-ming-corp.com/netdata/>

*

* - Web admin panel (iRedAdmin): <https://mail.teo-en-ming-corp.com/iredadmin/>

*

* You can login to above links with below credential:

*

* - Username: postmaster@teo-en-ming-corp.com

* - Password: <removed>

*

*

* Congratulations, mail server setup completed successfully. Please

* read below file for more information:

*

* - /root/iRedMail-1.4.0/iRedMail.tips

*

* And it's sent to your mail account postmaster@teo-en-ming-corp.com.

*

***** WARNING *****

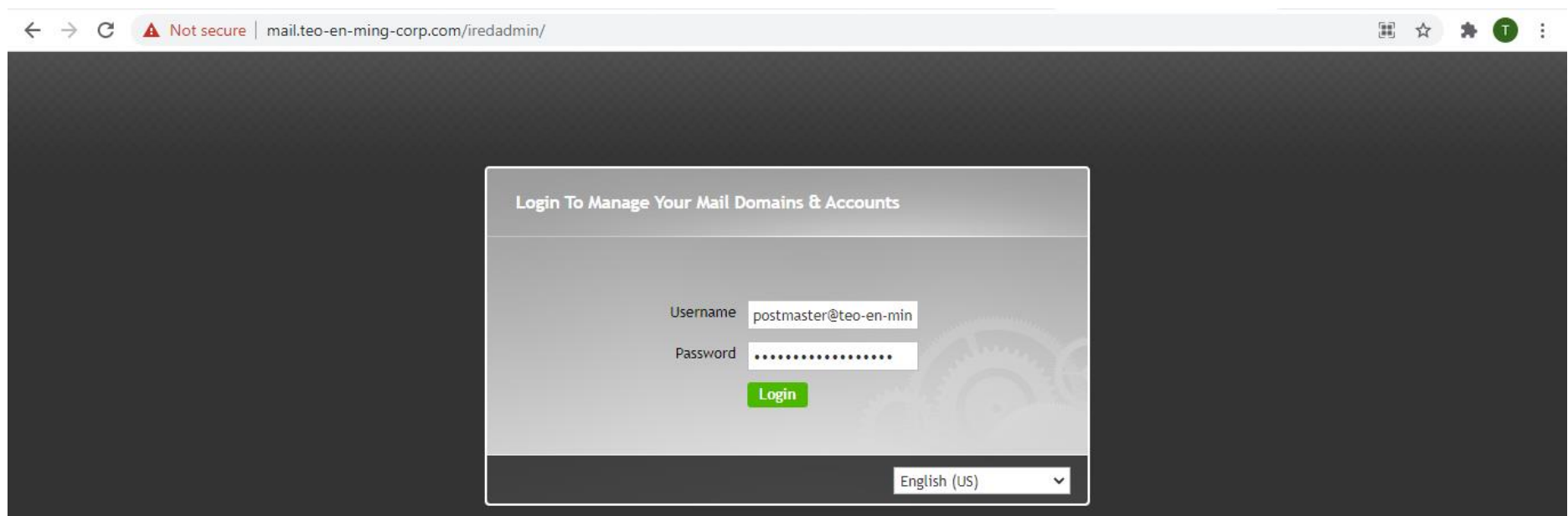
*

* Please reboot your system to enable all mail services.

*

reboot

Visit <https://mail.teo-en-ming-corp.com/iredadmin/>



← → ↻ Not secure | mail.teo-en-ming-corp.com/iredadmin/create/user/teo-en-ming-corp.com

iRedAdmin
iRedMail Admin Panel

Preferences Logout
Logged in as postmaster@teo-en-ming-corp.com

Dashboard Domains and Accounts Admins Activities **+ Add...**

All domains / teo-en-ming-corp.com / Users

Add mail user + User

Add mail user under domain *

Mail Address * @teo-en-ming-corp.com

New password *

At least 8 characters.

Confirm new password *

Display Name

Preferred language

Mailbox Quota MB

Password must contain

- At least one letter
- At least one uppercase letter
- At least one digit number
- At least one special character: # \$ % & * + , . : ; ! = ? @ [] / () { } _ ' ~ -

Need a strong password?

{ruGdAd256}

© iRedMail | Support

← → ↻ Not secure | mail.teo-en-ming-corp.com/iredadmin/profile/user/general/ceo@teo-en-ming-corp.com?msg=CREATED

iRedAdmin
iRedMail Admin Panel

Preferences Logout
Logged in as postmaster@teo-en-ming-corp.com

Dashboard **Domains and Accounts** Admins Activities + Add...

All domains / teo-en-ming-corp.com / Users / Profile of user: ceo@teo-en-ming-corp.com

✔ User created. Add one more?

Profile of user: ceo@teo-en-ming-corp.com General Password

Enable this account

Display Name

Mailbox Quota MB (Mailbox is empty.)

Preferred language

Time zone

User/Employee ID

© iRedMail | Support

Visit <https://mail.teo-en-ming-corp.com/mail/>



LOGIN

Roundcube Webmail

Step 5: Installing Free Let's Encrypt SSL Certificate

```
# apt install software-properties-common
# add-apt-repository ppa:certbot/certbot -y
# apt install certbot -y
# certbot certonly --webroot --agree-tos --email ceo@teo-en-ming-corp.com -d mail.teo-en-ming-corp.com -w /var/www/html/
Saving debug log to /var/log/letsencrypt/letsencrypt.log
Plugins selected: Authenticator webroot, Installer None
```

Would you be willing to share your email address with the Electronic Frontier Foundation, a founding partner of the Let's Encrypt project and the non-profit organization that develops Certbot? We'd like to send you email about our work encrypting the web, EFF news, campaigns, and ways to support digital freedom.

(Y)es/(N)o: N

Obtaining a new certificate

Performing the following challenges:

http-01 challenge for **mail.teo-en-ming-corp.com**

Using the webroot path /var/www/html for all unmatched domains.

Waiting for verification...

Cleaning up challenges

IMPORTANT NOTES:

- Congratulations! Your certificate and chain have been saved at:

/etc/letsencrypt/live/**mail.teo-en-ming-corp.com**/fullchain.pem

Your key file has been saved at:

/etc/letsencrypt/live/**mail.teo-en-ming-corp.com**/privkey.pem

Your cert will expire on 2021-07-24. To obtain a new or tweaked

version of this certificate in the future, simply run certbot again. To non-interactively renew *all* of your certificates, run "certbot renew"

- Your account credentials have been saved in your Certbot configuration directory at /etc/letsencrypt. You should make a secure backup of this folder now. This configuration directory will also contain certificates and private keys obtained by Certbot so making regular backups of this folder is ideal.

- If you like Certbot, please consider supporting our work by:

Donating to ISRG / Let's Encrypt: <https://letsencrypt.org/donate>

Donating to EFF: <https://eff.org/donate-le>

Installing the SSL Certificate in Nginx Web Server

```
# nano /etc/nginx/templates/ssl.tpl
```

Find the following 2 lines.

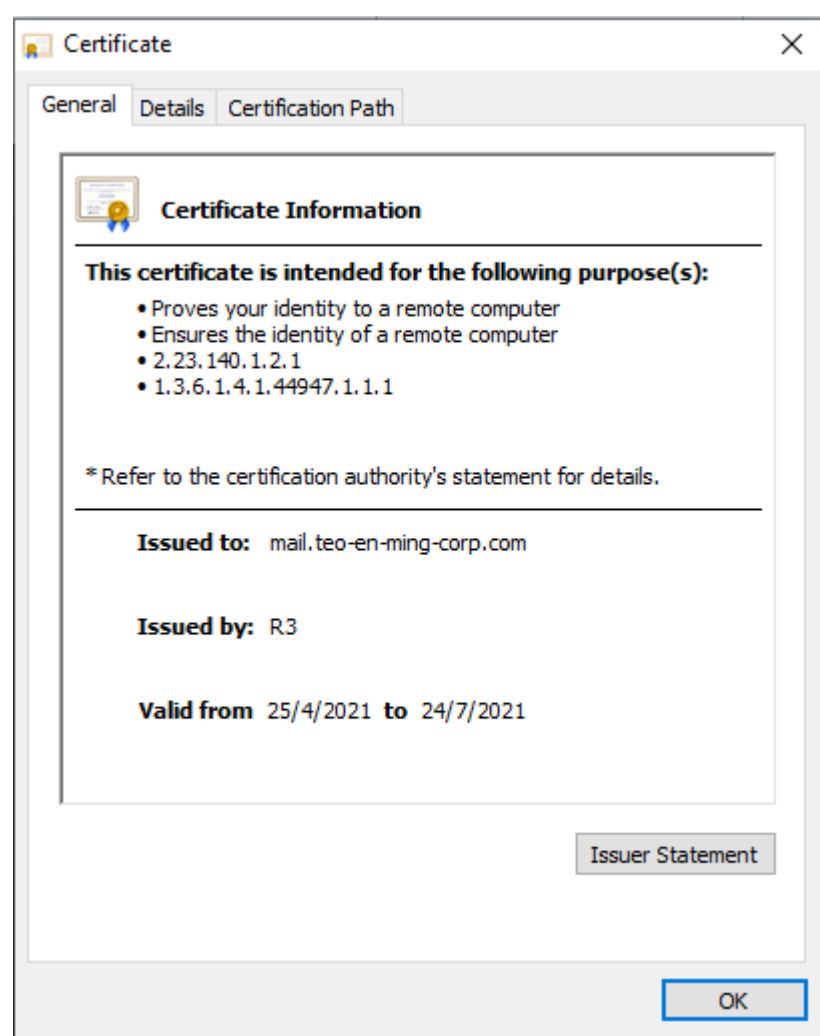
```
ssl_certificate /etc/ssl/certs/iRedMail.crt;  
ssl_certificate_key /etc/ssl/private/iRedMail.key;
```

Replace them with:

```
ssl_certificate /etc/letsencrypt/live/mail.teo-en-ming-corp.com/fullchain.pem;  
ssl_certificate_key /etc/letsencrypt/live/mail.teo-en-ming-corp.com/privkey.pem;
```

```
# nginx -t
```

```
# systemctl reload nginx
```



Installing SSL Certificate in Postfix and Dovecot

```
# nano /etc/postfix/main.cf
```

Find the following 3 lines. (line 95, 96, 97).

```
smtpd_tls_key_file = /etc/ssl/private/iRedMail.key  
smtpd_tls_cert_file = /etc/ssl/certs/iRedMail.crt  
smtpd_tls_CAfile = /etc/ssl/certs/iRedMail.crt
```

Replace them with:

```
smtpd_tls_key_file = /etc/letsencrypt/live/mail.teo-en-ming-corp.com/privkey.pem  
smtpd_tls_cert_file = /etc/letsencrypt/live/mail.teo-en-ming-corp.com/cert.pem  
smtpd_tls_CAfile = /etc/letsencrypt/live/mail.teo-en-ming-corp.com/chain.pem
```

```
# systemctl reload postfix
```

Next, edit the main configuration file of Dovecot.

```
# nano /etc/dovecot/dovecot.conf
```

Find the following 2 lines. (line 47, 48)

```
ssl_cert = </etc/ssl/certs/iRedMail.crt  
ssl_key = </etc/ssl/private/iRedMail.key
```

Replace them with:

```
ssl_cert = </etc/letsencrypt/live/mail.teo-en-ming-corp.com/fullchain.pem  
ssl_key = </etc/letsencrypt/live/mail.teo-en-ming-corp.com/privkey.pem
```

```
# systemctl reload dovecot
```

Step 6: Improving Email Deliverability

DNS PTR Record

```
# dig -x 194.233.66.226 +short
```

```
vmi576090.contaboserver.net.
```

```
vmi576090.
```

```
# host 194.233.66.226
```

```
226.66.233.194.in-addr.arpa domain name pointer vmi576090.contaboserver.net.
```

```
226.66.233.194.in-addr.arpa domain name pointer vmi576090.
```

Visit <https://my.contabo.com/>

my.contabo.com/rdns

In order to optimally design our website and to show appropriate offers we are using cookies. By continuing to use our website you agree that we set cookies. [More Information](#)

Home not IPv6 capable (what's this?) Company details General terms Data privacy Support log out
 Logged in: teo.en.ming@gmail.com Customer ID: 640354

CONTABO

Reverse DNS Management
 Manage the reverse DNS (PTR) records for your IP addresses.

IP Address	PTR Record
194.233.66.226	mail.teo-en-ming-corp.com
2407:3640:2057:6090:0000:0000:0000:0001	mail.teo-en-ming-corp.com

control panel

- > Your services
- > Customer details
- > Billing
- > Payment Method
- > Server control
- > VDS control
- > VPS control
- > IP Management
- > OS reinstalls
- > Domains
- > DNS Zone Management
- > Reverse DNS Management
- > Tutorials
- > FAQ

New Order

- > VPS
- > Storage-VPS
- > VDS
- > Server
- > Outlet-Server

DNS SPF Record

Type * **Host *** **TXT Value ***

TTL *

```
# dig teo-en-ming-corp.com txt

;<<>> DiG 9.11.3-1ubuntu1.14-Ubuntu <<>> teo-en-ming-corp.com txt
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 55560
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;teo-en-ming-corp.com.      IN      TXT

;; ANSWER SECTION:
teo-en-ming-corp.com. 3600 IN  TXT  "v=spf1 mx ~all"

;; Query time: 5 msec
;; SERVER: 127.0.0.53#53(127.0.0.53)
```


:: WHEN: Sun Apr 25 15:48:44 +08 2021

:: MSG SIZE rcvd: 76

DNS DKIM Record

amavisd-new showkeys

; key#1 2048 bits, i=dkim, d=teo-en-ming-corp.com, /var/lib/dkim/teo-en-ming-corp.com.pem

dkim._domainkey.teo-en-ming-corp.com. 3600 TXT (

"v=DKIM1; p="

"MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEA7sFSqJyUwmmaoXcgDA6t"

"jwyT3zGSXTMpZ0205DWDgLRZ12yRt9da45swBMqQsSZvSodtUGgHsxd9xotwYU0"

"oBiS0ntCthumtVgA8ZkrMXcT6xWL3bH9LUQFeNiCI9sJa8tp/H1xHUBdENDZKdO3"

"ayWXzW375z+QwK4WDHj4EdmxQfnpdwl7yA6mh/3K218sFLhgg+OopJMStOS30T4b"

"iSbk5M7oh8kGoaBlffpQHhM2xF091Wq9JlrrlbCjNBfaKQPH+dB/I6/yBmPsFpE"

"XIAEhMhGIUfGySaWOksepA0jYnASrXN9xVr5BDG6AE8kFaRbd+rhHjV8UeMr6DjP"

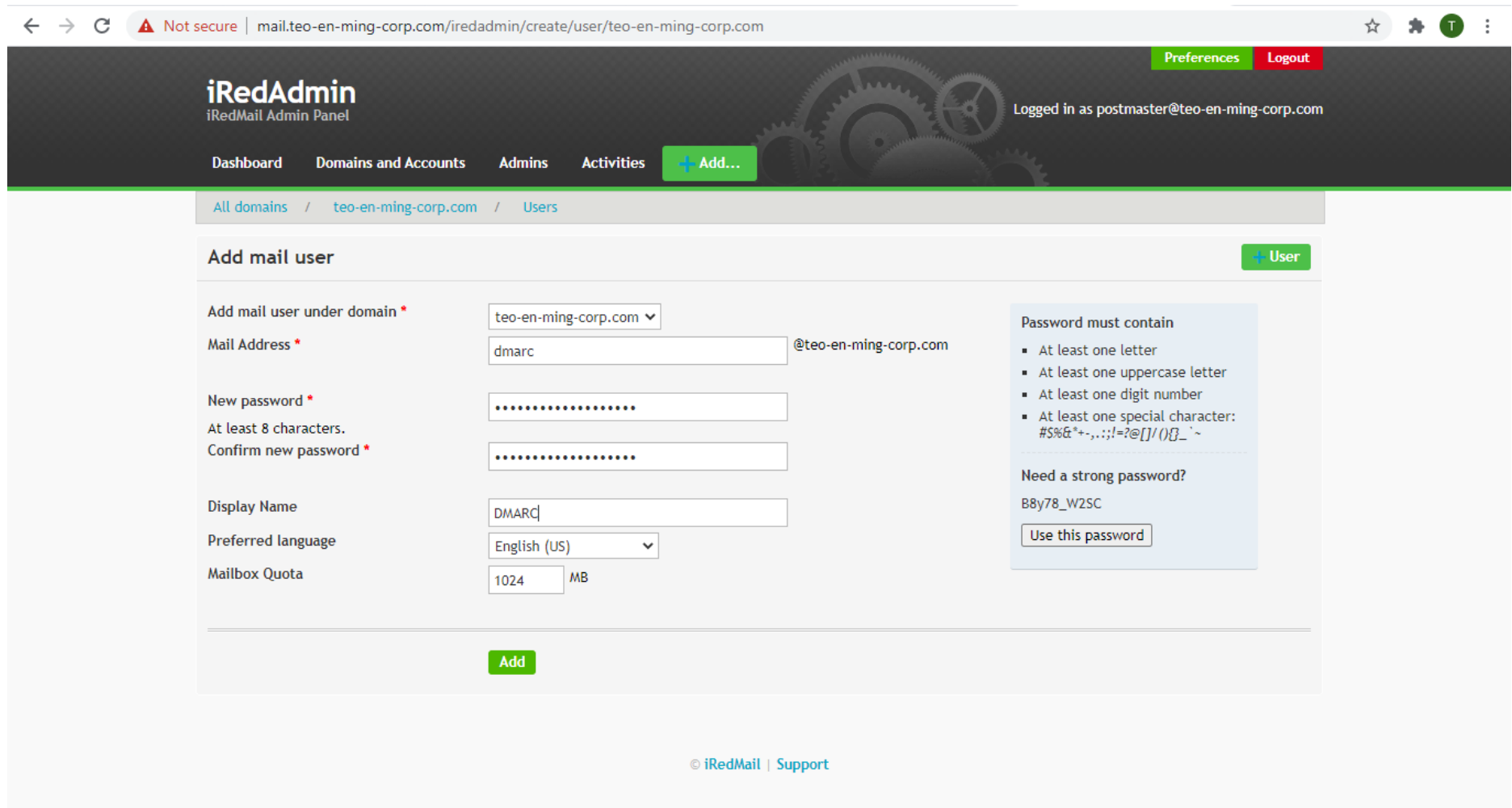
"CQIDAQAB")

Type *	Host *	TXT Value *
<input type="text" value="TXT"/>	<input type="text" value="dkim._domainkey"/>	<input type="text" value="v=DKIM1; p= MIIBIjANBgkqh"/>
TTL *		
<input type="text" value="1 Hour"/>		
		<input type="button" value="Save"/> <input type="button" value="Cancel"/>

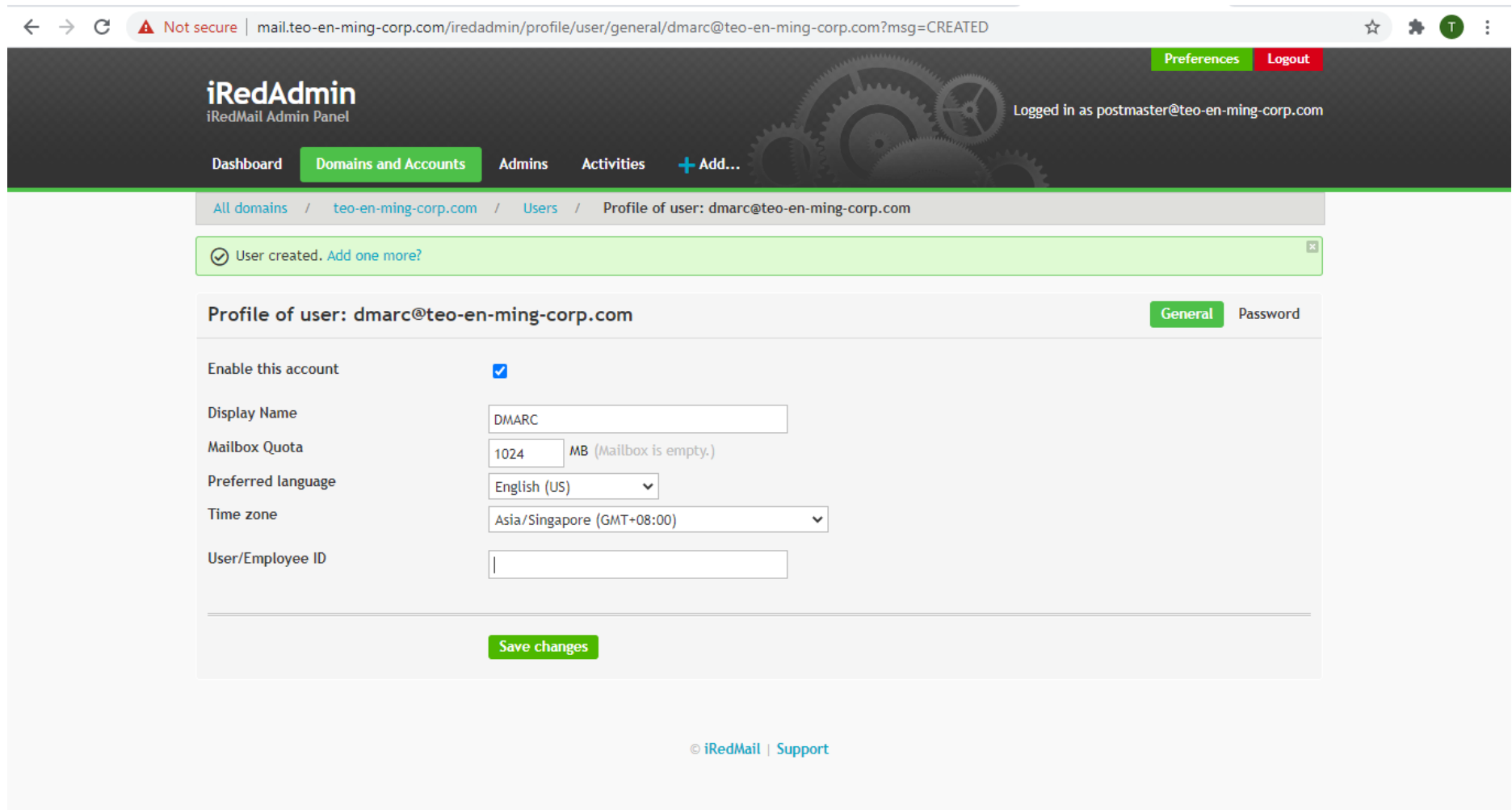
amavisd-new testkeys

TESTING#1 teo-en-ming-corp.com: dkim._domainkey.teo-en-ming-corp.com => pass

DNS DMARC Record



The screenshot shows the 'Add mail user' form in iRedAdmin. The breadcrumb trail is 'All domains / teo-en-ming-corp.com / Users'. The form fields are: 'Add mail user under domain' (teo-en-ming-corp.com), 'Mail Address' (dmarc@teo-en-ming-corp.com), 'New password' (masked), 'Confirm new password' (masked), 'Display Name' (DMARC), 'Preferred language' (English (US)), and 'Mailbox Quota' (1024 MB). A password strength indicator shows 'Need a strong password?' with a generated password 'B8y78_W2SC' and a 'Use this password' button. A green 'Add' button is at the bottom.



The screenshot shows the 'Profile of user: dmarc@teo-en-ming-corp.com' page in iRedAdmin. A green notification bar at the top says 'User created. Add one more?'. The breadcrumb trail is 'All domains / teo-en-ming-corp.com / Users / Profile of user: dmarc@teo-en-ming-corp.com'. The 'General' tab is active, showing: 'Enable this account' (checked), 'Display Name' (DMARC), 'Mailbox Quota' (1024 MB, Mailbox is empty), 'Preferred language' (English (US)), 'Time zone' (Asia/Singapore (GMT+08:00)), and 'User/Employee ID' (empty). A green 'Save changes' button is at the bottom.

v=DMARC1; p=none; pct=100; rua=mailto:dmarc@teo-en-ming-corp.com

Type *
Host *
TXT Value *

TTL *

Records

Last updated 25/4/21 4:02 PM

Type	Name	Value	TTL	
A	@	Parked	600 seconds	
A	mail	194.233.66.226	1 Hour	
CNAME	www	@	1 Hour	
CNAME	_domainconnect	_domainconnect.gd.domaincontrol.com	1 Hour	
MX	@	mail.teo-en-ming-corp.com (Priority: 0)	1 Hour	
NS	@	ns37.domaincontrol.com	1 Hour	
NS	@	ns38.domaincontrol.com	1 Hour	
SOA	@	Primary nameserver: ns37.domaincontrol.co...	1 Hour	
TXT	@	v=spf1 mx ~all	1 Hour	
TXT	dkim._domainkey	v=DKIM1; p= MIIBljANBgkqhkiG9w0BAQEFA...	1 Hour	
TXT	_dmarc	v=DMARC1; p=none; pct=100; rua=mailto:dm...	1 Hour	

Step 7: How to Disable Greylisting

```
# chmod 600 /opt/iredapd/settings.py
```

```
# nano /opt/iredapd/settings.py
```

Find the following line.

```
plugins = ["reject_null_sender", "wblst_rdns", "reject_sender_login_mismatch", "greylisting", "throttle", "amavisd_wblst", "sql_alias_access_policy"]
```

Remove "greylisting" from the list. Save and close the file. Then restart iredapd.

```
# systemctl restart iredapd
```

```
# chmod 400 /opt/iredapd/settings.py
```

Step 8: Troubleshooting Tips

```
# systemctl status postfix
```

```
# systemctl status dovecot
```

```
# systemctl status nginx
```

```
# systemctl status mariadb
```

```
# systemctl status clamav-daemon
```

```
# systemctl status amavis
```

Step 9: How to Renew SSL Certificate

```
# certbot renew -w /var/www/html --dry-run
```

```
Saving debug log to /var/log/letsencrypt/letsencrypt.log
```

```
-----  
Processing /etc/letsencrypt/renewal/mail.teo-en-ming-corp.com.conf  
-----
```

```
Cert not due for renewal, but simulating renewal for dry run  
Plugins selected: Authenticator webroot, Installer None  
Renewing an existing certificate  
Performing the following challenges:  
http-01 challenge for mail.teo-en-ming-corp.com  
Using the webroot path /var/www/html for all unmatched domains.  
Waiting for verification...  
Cleaning up challenges
```

```
-----  
new certificate deployed without reload, fullchain is  
/etc/letsencrypt/live/mail.teo-en-ming-corp.com/fullchain.pem  
-----
```

```
-----  
** DRY RUN: simulating 'certbot renew' close to cert expiry  
**          (The test certificates below have not been saved.)  
-----
```

```
Congratulations, all renewals succeeded. The following certs have been renewed:  
/etc/letsencrypt/live/mail.teo-en-ming-corp.com/fullchain.pem (success)
```

```
** DRY RUN: simulating 'certbot renew' close to cert expiry  
**          (The test certificates above have not been saved.)  
-----
```

IMPORTANT NOTES:

- Your account credentials have been saved in your Certbot configuration directory at /etc/letsencrypt. You should make a secure backup of this folder now. This configuration directory will also contain certificates and private keys obtained by Certbot so making regular backups of this folder is ideal.

Create Cron Job

```
# crontab -e
```

Then add the following line at the bottom of the file.

```
@daily certbot renew -w /var/www/html --quiet && systemctl reload postfix dovecot nginx
```

```
# cat /etc/os-release
```

```
NAME="Ubuntu"  
VERSION="18.04.5 LTS (Bionic Beaver)"  
ID=ubuntu  
ID_LIKE=debian  
PRETTY_NAME="Ubuntu 18.04.5 LTS"  
VERSION_ID="18.04"  
HOME_URL="https://www.ubuntu.com/"  
SUPPORT_URL="https://help.ubuntu.com/"  
BUG_REPORT_URL="https://bugs.launchpad.net/ubuntu/"  
PRIVACY_POLICY_URL="https://www.ubuntu.com/legal/terms-and-policies/privacy-policy"  
VERSION_CODENAME=bionic  
UBUNTU_CODENAME=bionic
```

Step 10: SPF Record Lookup at MXToolBox.com

mxtoolbox.com/SuperTool.aspx?action=spf%3ateo-en-ming-corp.com&run=toolpage

MxTOOLBOX Pricing Tools Delivery Center Monitoring Products Support Login

SuperTool MX Lookup Blacklists DMARC Diagnostics Email Health DNS Lookup Analyze Headers All Tools

SuperTool Beta7

teo-en-ming-corp.com **SPF Record Lookup**

spf:teo-en-ming-corp.com **Find Problems** **Solve Email Delivery Problems** **spf**

EMAILS BOUNCING? MxToolbox has your email delivery solutions

v=spf1 mx ~all

Prefix	Type	Value	PrefixDesc	Description
	v	spf1		The SPF record version
+	mx		Pass	Match if IP is one of the MX hosts for given domain name.
~	all		SoftFail	Always matches. It goes at the end of your record.

Test	Result
SPF Record Published	SPF Record found
SPF Record Deprecated	No deprecated records found
SPF Multiple Records	Less than two records found
SPF Contains characters after ALL	No items after 'ALL'.
SPF Syntax Check	The record is valid
SPF Included Lookups	Number of included lookups is OK
SPF Type PTR Check	No type PTR found
SPF Void Lookups	Number of void lookups is OK
SPF MX Resource Records	Number of MX Resource Records is OK
SPF Record Null Value	No Null DNS Lookups found

Your DNS hosting provider is "GoDaddy" [Need Bulk Dns Provider Data?](#)

[dns lookup](#) [dns check](#) [mx lookup](#) [whois lookup](#) [dns propagation](#)

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ABOUT THE SUPERTOOL!

All of your MX record, DNS, blacklist and SMTP diagnostics in one integrated tool. Input a **domain name** or **IP Address** or **Host Name**. Links in the results will guide you to other relevant tools and information. And you'll have a chronological history of your results.

If you already know exactly what you want, you can force a particular test or lookup. Try some of these examples:

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Free MxToolBox Account
Get 1 Free Monitor*, Email Notifications and Troubleshooting Info

Delivery Center
Real-time insight into the Email Deliverability of you or your 3rd party senders

Blacklist Monitoring
100+ Blacklist Monitored + Delisting Support

MailFlow Monitoring
Round-trip email server monitoring for latency and email deliverability issues

Bulk Lookup
Run Bulk lists of IPs and Domains Blacklist, MX/NS/A Record, GeoIP, & more data

Step 11: DKIM Record Lookup at MXToolBox.com

mxtoolbox.com/SuperTool.aspx?action=dkim%3ateo-en-ming-corp.com%3adkim&run=toolpage

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SuperTool MX Lookup Blacklists DMARC Diagnostics Email Health DNS Lookup Analyze Headers All Tools

SuperTool Beta7

teo-en-ming-corp.com:dkim DKIM Lookup

dkim:teo-en-ming-corp.com:dkim Find Problems dkim

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

v=DKIM1; p= MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEA7sFSqJyUwmmoaXcgDA6tjwyT3zGSXTMpZ0205DWDgLRZ12yRt9da45swBMqQsS2vSodtUGgHxwd9xotwU0oBiS0ntCthumtVgA8ZkrMXcT6xWL3bH9LUQFeN1CI9sJa8tp/H1xHUBdENDZKdO3ayWXzW375z+QwK4WDHj4EdmxQfnpdw17yA6mh/3K218sFLhgg+OopJMSstOS30T4biSbk5M7oh8kGoaB1ffpQHhM2xFO91Wq9J1err1bcJNBfaKQPH+dB/I6/yBmPpFpEXIAEhMhGIUfGySaW0ksepA0jYnASrXN9xVr5BDG6AE8kFaRbd+rhHjV8UeMr6DjPCQIDAQAB

Tag	TagValue	Name	Description
v	DKIM1	Version	Identifies the record retrieved as a DKIM record. It must be the first tag in the record.
p	MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEA7sFSqJyUwmmoaXcgDA6tjwyT3zGSXTMpZ0205DWDgLRZ12yRt9da45swBMqQsS2vSodtUGgHxwd9xotwU0oBiS0ntCthumtVgA8ZkrMXcT6xWL3bH9LUQFeN1CI9sJa8tp/H1xHUBdENDZKdO3ayWXzW375z+QwK4WDHj4EdmxQfnpdw17yA6mh/3K218sFLhgg+OopJMSstOS30T4biSbk5M7oh8kGoaB1ffpQHhM2xFO91Wq9J1err1bcJNBfaKQPH+dB/I6/yBmPpFpEXIAEhMhGIUfGySaW0ksepA0jYnASrXN9xVr5BDG6AE8kFaRbd+rhHjV8UeMr6DjPCQIDAQAB	Public Key	The syntax and semantics of this tag value before being encoded in base64 are defined by the (k) tag.

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mxtoolbox.com/SuperTool.aspx?action=dkim%3ateo-en-ming-corp.com%3adkim&run=toolpage

Test	Result
DKIM Record Published	DKIM Record found
DKIM Syntax Check	The record is valid
DKIM Public Key Check	Public key is present

Your DNS hosting provider is "GoDaddy" [Need Bulk Dns Provider Data?](#)

dns lookup dns check mx lookup whois lookup dns propagation

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ABOUT THE SUPERTOOL!

All of your MX record, DNS, blacklist and SMTP diagnostics in one integrated tool. Input a domain name or IP Address or Host Name. Links in the results will guide you to other relevant tools and information. And you'll have a chronological history of your results.

If you already know exactly what you want, you can force a particular test or lookup. Try some of these examples:

(e.g. "Blacklist:192.0.2" will do a blacklist lookup)

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Step 12: DMARC Record Lookup at MXToolBox.com

mxtoolbox.com/SuperTool.aspx?action=dmarc%3ateo-en-ming-corp.com&run=toolpage

MX TOOLBOX

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teo-en-ming-corp.com DMARC Lookup

dmarc:teo-en-ming-corp.com Find Problems Solve Email Delivery Problems dmarc

EMAILS BOUNCING? MxToolbox has your email delivery solutions

v=DMARC1; p=none; pct=100; rua=mailto:dmarc@teo-en-ming-corp.com

Tag	TagValue	Name	Description
v	DMARC1	Version	Identifies the record retrieved as a DMARC record. It must be the first tag in the list.
p	none	Policy	Policy to apply to email that fails the DMARC test. Valid values can be 'none', 'quarantine', or 'reject'.
pct	100	Percentage	Percentage of messages from the Domain Owner's mail stream to which the DMARC policy is to be applied. Valid value is an integer between 0 to 100.
rua	mailto:dmarc@teo-en-ming-corp.com	Receivers	Addresses to which aggregate feedback is to be sent. Comma separated plain-text list of DMARC URIs.

Test	Result
DMARC Policy Not Enabled	DMARC Quarantine/Reject policy not enabled
DMARC Record Published	DMARC Record found
DMARC Syntax Check	The record is valid
DMARC External Validation	All external domains in your DMARC record are giving permission to send them DMARC reports.
DMARC Multiple Records	Multiple DMARC records corrected to a single record.

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Turritopsis Dohrnii Teo En Ming's Linux Mail Server Hostname:

mail.teo-en-ming-corp.com

Turritopsis Dohrnii Teo En Ming's Linux Mail Server IP Address:

194.233.66.226

Turritopsis Dohrnii Teo En Ming's Email Address:

ceo@teo-en-ming-corp.com

===The End===