

## Sending command line email Raspberry Pi Bullseye (Updated November 2022)

Bullseye doesn't support the old SSMTP method, you need to use MSMTMP to send email instead. Before we can send command line emails we need to install & configure several mail applications from the internet. You also need to have made an **extra Gmail account** for just the Pi to use, and configured a 16 character app password in the google account settings screen (see page 2/3).

```
sudo apt install msmtmp msmtmp-mta mailutils mpack ca-certificates
```

Setup default settings for MSMTMP.

```
cd /etc
sudo touch msmtprc
sudo nano msmtprc
```

```
account default
host smtp.gmail.com
port 587
logfile /tmp/msmtmp.log
tls on
tls_starttls on
tls_trust_file /etc/ssl/certs/ca-certificates.crt
auth login
user your-new-pi-gmail-account@gmail.com
password your-16-character-app-password
from First Last Name
account account2
```

save file & exit.

```
cd ~
```

To go back to your home folder.

Send a test email with this command, substituting the email address below with your own.

```
echo -e "Subject: Test Mail\r\n\r\nThis is a test mail" |msmtmp --
debug --from=default -t you@yourdomain.co.uk
```

That goes all on one line. If it worked you can remove the --debug option next time.

You can also use it like this

```
echo -e "Motion Detected" | msmtmp you@yourdomain.co.uk
```

This is how you send a photo attachment as an email:

```
mpack -s "alarm photo" /home/pi/image.jpg you@yourdomain.co.uk
```

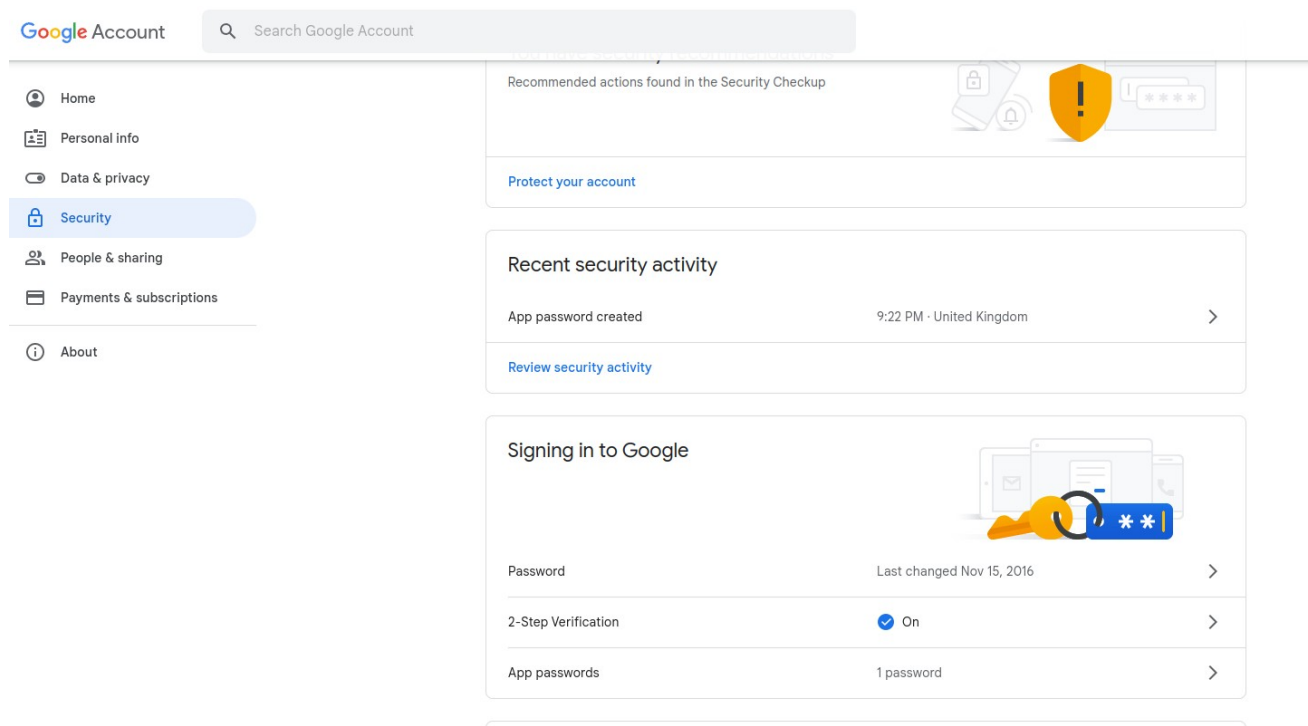
## Setting up a spare Gmail account, just for your Pi to use (updated Nov 2022)

The simplest way of sending emails & photos as attachments from your Pi, is to setup a new Gmail account for the Pi to use, even if you already have an existing Gmail account you use on your phone or PC. For one thing, it gets you 15GB of new cloud storage for your alert photos & secondly it removes the complication of generating application specific passwords for other apps on your existing Gmail account.

You need to create the new Gmail account in the web browser on your PC or Mac @

<https://accounts.google.com/SignUp?service=mail>

Then setup 2-Step Verification with your phone and then you'll be able to set an App password:



The screenshot shows the Google Account Security page. On the left is a navigation menu with options: Home, Personal info, Data & privacy, Security (highlighted), People & sharing, Payments & subscriptions, and About. The main content area is titled 'Recommended actions found in the Security Checkup' and includes a 'Protect your account' button. Below this is a section for 'Recent security activity' showing an event: 'App password created' at '9:22 PM - United Kingdom'. At the bottom is a section titled 'Signing in to Google' with a table of settings:

Setting	Value	Action
Password	Last changed Nov 15, 2016	>
2-Step Verification	<input checked="" type="checkbox"/> On	>
App passwords	1 password	>

The app password is 16 characters long with **no spaces**, and this is what we use on the Raspberry Pi along with the new gmail address in the /etc/msmtprc file, when setting the configuration.

← App passwords

App passwords let you sign in to your Google Account from apps on devices that don't support 2-Step Verification. You'll only need to enter it once so you don't need to remember it. [Learn more](#)

Your app passwords

Name	Created	Last used	
Raspberry Pi	9:22 PM	9:25 PM	

Select the app and device you want to generate the app password for.

Raspberry Pi 2

and

Google Account

← App passwords

App passwords let you sign in to your Google Account from apps on devices that don't support 2-Step Verification. You'll only need to enter it once so you don't need to remember it. [Learn more](#)

Generated app password

Your app password for your device

**umlo inkw imdj wptz**

How to use it

Go to the settings for your Google Account in the application or device you are trying to set up. Replace your password with the 16-character password shown above. Just like your normal password, this app password grants complete access to your Google Account. You won't need to remember it, so don't write it down or share it with anyone.

Email:

Password:

Now we have a working email account, just for the Pi to use when sending emails. Any photos sent from the Pi will be backed-up in the Sent folder & you only need delete old photos if you get near to the 15GB limit. Emails from the Pi can be sent to any other email address on your phone or PC.