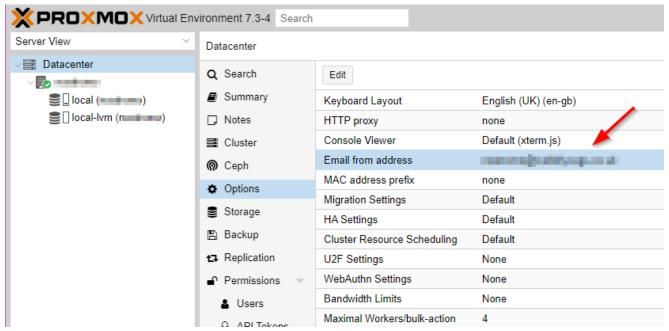
# Natural Born Coder

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# Setting up Email Notifications in Proxmox Using Gmail

/ Linux, Proxmox / By doozer

Getting email notifications from Proxmox is important as you absolutely want to know what that disk fails at 3AM or if the backup decides it's had enough and gives up. The first thing you need to check is that you have set a valid email addresses for where the email will come from. By default it's set to root@\$hostname which stands a fair chance of being caught in a spam trap. To change this open the Proxmox web UI and under Datacentre > Options double click Email from address and set to something with a valid domain such as pve@naturalborncoder.com.



Emails will, by default, go to the root user so they need to have a valid email address (while you're at it give all the users a valid email address). To set this go to *Datacenter > Permissions > Users* and then double click the root user. The user edit box will open where you can set an email.

Edit: User				$\otimes$
User name: Group: Expire:	root@pam	V	First Name: Last Name: E-Mail:	
Enabled:  Comment:	✓	1000		
			Advan	oced OK Reset

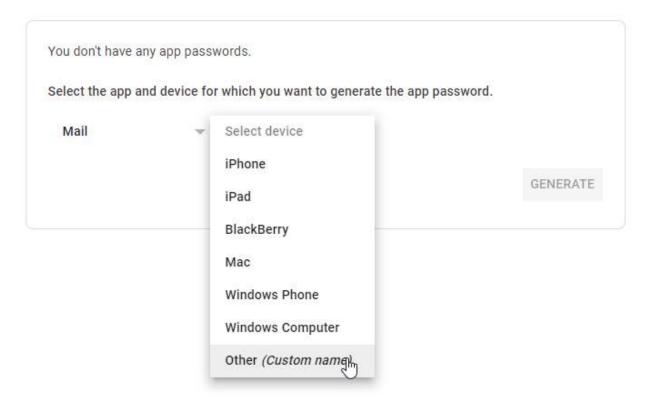
Using Google to relay your email used to be fairly easy but they have tightened up the security to the point where it barely works anymore and I suspect in time it will stop working altogether. At a minimum you will need to have two factor authentication turned on for the account (you should have that anyway). Google mail servers require authentication to ensure that you have the right to send and this requires a library that Proxmox doesn't ship with so lets add it. We'll also add mailutils as it makes life easier – it's the Swiss army knife of email. From the host open a new shell as root and then enter the following.

```
    apt update
    apt install -y libsasl2-modules mailutils
```

Now log into your Google account (myaccount.google.com) and perform a search for *app passwords* you will probably have to confirm your account password. I hunted high and low for a link via the security page but I couldn't find one, I suspect you can only find this option by searching now. It should open a page that looks similar to the image below. Select *mail* as the application to generate a password for and *other* for the device. Selecting *other* switches you to the device name page. Name this something like *<hostname> Proxmox* so you know what the password is for and then click *generate*.

## ← 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



You will now get a new dialog that shows you the app password. Write this down somewhere secure! You can't access this password again though Google. Now back at the command prompt we'll safely store the password created in a way postfix can access it.

- cd /etc/postfix
- 2. nano sasl\_passwd

In nano enter the following single line replacing the email and password with your credentials. Once complete save and exit the file.

```
1. smtp.gmail.com example@gmail.com:password
```

Alter the permissions on the password file so that it can only be read and written by root and then generate the password database file.

- 1. chmod 600 sasl\_passwd
- postmap hash:sasl\_passwd

Now open the mail.cf configuration file for Postfix

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

Comment out (with a #) or remove the *existing* line that starts **relayhost** and the one that starts **mydestination**. Add the following lines to the bottom of the file.

```
    relayhost = smtp.gmail.com:587
    smtp_use_tls = yes
    smtp_sasl_auth_enable = yes
    smtp_sasl_security_options =
    smtp_sasl_password_maps = hash:/etc/postfix/sasl_passwd
    smtp_tls_CAfile = /etc/ssl/certs/Entrust_Root_Certification_Authority.pem
    smtp_tls_session_cache_database = btree:/var/lib/postfix/smtp_tls_session_cache
    smtp_tls_session_cache_timeout = 3600s
```

Save and close the file and then reload Postfix

```
1. postfix reload
```

Send two test emails as shown below. The first is testing the email system the second also tests that Proxmox can send emails.

```
    echo "Test Email" | mail -s "Test Subject" example@gmail.com
    echo "Test email from Proxmox: $(hostname)" | /usr/bin/proxmox-mail-forward
```

If the email arrives then congratulations you have set up the Proxmox email system. It's probably worth taking a quick look at the system logs just to check everything looks good. These can be found from the command line or *Datacenter* > [Host] > System > Syslog.

### Twiddling the Headers

At the moment the from will appear to come from your own account but it would be nice if they looked like they came from the machine itself. This can be achieved with some header rewriting which can be done by Postfix. This step isn't necessary and it might even increase the chance of getting caught in a spam trap. If you want to give it a try first install the postfix-pcre package like this

```
    apt update
    apt install postfix-pcre
```

Now create a configuration file that defines the headers you want to alter

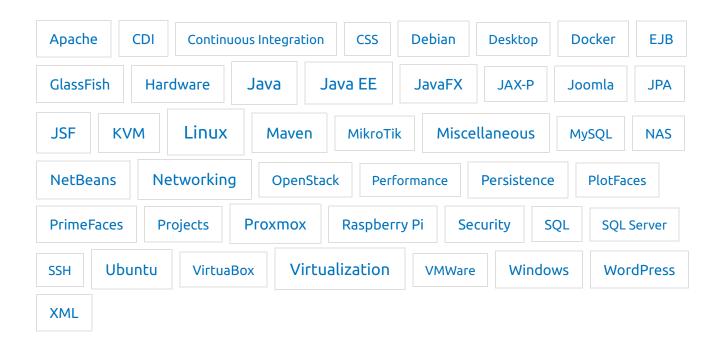
1. nano /etc/postfix/smtp_header_checks
Enter a like like this altering as needed
1. /^From:.*/ REPLACE From: myhost <myhost@naturalborncoder.com></myhost@naturalborncoder.com>
Create a database file from the configuration file
1. postmap hash:/etc/postfix/smtp_header_checks
Edit the Postfix main configuration file
1. nano /etc/postfix/main.cf
Add the following line to enable the header rewriting
1. smtp_header_checks = pcre:/etc/postfix/smtp_header_checks
Reload Postfix and then send the test emails a noted above
1. postfix reload
When I last tested this I found the Google automatically re-wrote the from email address but left the name in place – better than nothing.
Additional Notes
Once mail is set up you can also get email from the automatic upgrade system if you set that up.
References
• Creat everyion, well worth reading

- Great overview, well worth reading
- Some good information on setting up email notifications
- Some basic information about email notifications

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