

# Servidor de correo en Ubuntu Server



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# Léame

- Este material ha sido elaborado únicamente como medio de apoyo a la exposición del Proyecto 06. El contenido ha sido reducido en la medida de lo posible para facilitar la presentación visual, dado que debería poderse presentar en conjunción a la máquina virtual. Por tanto, no debería ser tratado como un informe completo.

# Disposición

- **Ubuntu Server 20.04 LTS**
  - Resolución DNS (**bind9**)
  - Transferencia mail MTA (**postfix**)
  - Servidor IMAP (**Dovecot**)
  - Cliente correo (**Thunderbird**)
- **Ubuntu Destkop 18.04 LTS**
  - Configuración dominio DNS
  - Cliente corre (**Thunderbird**)



# Ubuntu Server 20.04 LTS

- Servicio de resolución de nombres DNS (**bind9**)
- Servicio de transferencia de mail MTA (**postfix**)
- Servidor IMAP (**dovecot**)
- Configuración de cliente Thunderbird



# Resolución de nombres DNS

- **Zona de resolución directa**
  - **Registro de nombre de dominio**
    - ifpmail.com.
    - mail.ifpmail.com.
  - **Configurado registro MX (Mail Exchanger Record)**
    - Prioridad 10

```
1 ;  
2 ; BIND data file for local loopback interface  
3 ;  
4 $TTL      604800  
5 @         IN      SOA      ifpmail.com. root.ifpmail.com. (  
6                               2              ; Serial  
7                               604800         ; Refresh  
8                               86400          ; Retry  
9                               2419200        ; Expire  
10          604800 )          ; Negative Cache TTL  
11 ;  
12 @         IN      NS       ifpmail.com.  
13 ifpmail.com. IN      A       192.168.0.10  
14 mail      IN      A       192.168.0.10  
15 ifpmail.com. IN      MX      10      mail
```



# Resolución de nombres DNS

- Zona de resolución indirecta
  - Registro de nombre de dominio
    - mail.ifpmail.com.

```
1 ;
2 ; BIND reverse data file for local loopback interface
3 ;
4 $TTL      604800
5 @         IN      SOA      ifpmail.com. root.ifpmail.com. (
6                               1              ; Serial
7                               604800         ; Refresh
8                               86400          ; Retry
9                               2419200        ; Expire
10                              604800 )        ; Negative Cache TTL
11 ;
12 @         IN      NS       ifpmail.com.
13 10        IN      PTR      mail.ifpmail.com.
```



# Transferencia de mail MTA

- **Dominio:** ifpmail.com
- **Postmaster:** administrator
- **Tamaño mailbox:** 0Mb, ilimitado
- **Protocolos** IPv4 e IPv6
- Configurado **Maildir**
- Usuarios **Unix** de prueba

```
root@mail-server:~# cat /var/mail/juan
From root@ifpmail.com Sat May 29 23:27:36 2021
Return-Path: <root@ifpmail.com>
X-Original-To: juan@ifpmail.com
Delivered-To: juan@ifpmail.com
Received: by mail.ifpmail.com (Postfix, from userid 0)
        id 977EDE243E; Sat, 29 May 2021 23:27:36 +0000 (UTC)
Message-Id: <20210529232736.977EDE243E@mail.ifpmail.com>
Date: Sat, 29 May 2021 23:27:36 +0000 (UTC)
From: root <root@ifpmail.com>

Test mail

root@mail-server:~#
```



# Servidor Dovecot

- Encriptación SSL
  - Certificado autofirmado IFP
- Comprobación TelNet

```
root@mail-server:~# sudo openssl req -new -x509 -days 1000 -nodes -out "/etc/dovecot/dovecot.pem"
" \
> -keyout "/etc/dovecot/private/dovecot.pem"
Generating a RSA private key
.....+++++
.....+++++
writing new private key to '/etc/dovecot/private/dovecot.pem'
-----
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
-----
Country Name (2 letter code) [AU]:ES
State or Province Name (full name) [Some-State]:Madrid
Locality Name (eg, city) []:Madrid
Organization Name (eg, company) [Internet Widgits Pty Ltd]:IFP
Organizational Unit Name (eg, section) []:Julian Camarillo
Common Name (e.g. server FQDN or YOUR name) []:mail.ifpmail.com
Email Address []:administrator@ifpmail.com
```





# Configuración Thunderbird

- Configurados usuarios de forma manual
- Comprobado funcionamiento de correo

	INCOMING	OUTGOING
Protocol:	IMAP	SMTP
Server:	mail.ifpmail.com	mail.ifpmail.com
Port:	143	Auto
SSL:	STARTTLS	None
Authentication:	Normal password	Normal password
Username:	juan	juan

[Advanced config](#)

Write: Thunderbird testing mail - Thunderbird

File Edit View Insert Format Options Tools Help

Send Spelling Security Save Attach

From Juan <juan@ifpmail.com> | Cc Bcc >>

To pedro@ifpmail.com

Subject Thunderbird testing mail

Paragraph Variable Width

Testing mail.



# Ubuntu Desktop 18.04 LTS

- Configuración de dominio DNS
- Configuración de cliente Thunderbird



# Configuración dominio DNS

- El servidor de correo resuelve las peticiones de resolución de nombre del cliente
- Comprobación funcionamiento correcto



The screenshot shows the 'Wired' network configuration window with the 'IPv4' tab selected. The 'IPv4 Method' section has three radio buttons: 'Automatic (DHCP)' (selected), 'Manual', and 'Link-Local Only'. The 'DNS' section has a toggle switch set to 'OFF' and a text input field containing '192.168.0.10'. Below the input field, it says 'Separate IP addresses with commas'.

Cancel Wired Apply

Details Identity IPv4 IPv6 Security

**IPv4 Method**

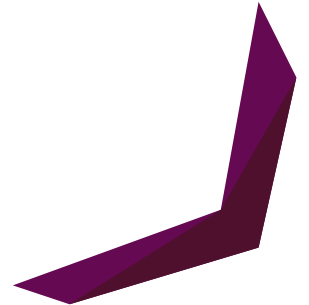
☒ Automatic (DHCP) ☐ Link-Local Only

☐ Manual ☐ Disable

**DNS** Automatic ☐ OFF

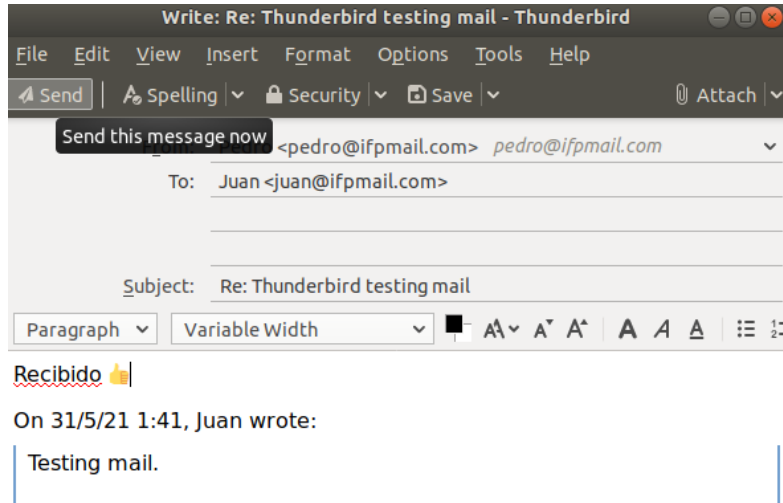
192.168.0.10

Separate IP addresses with commas



# Configuración de Thunderbird

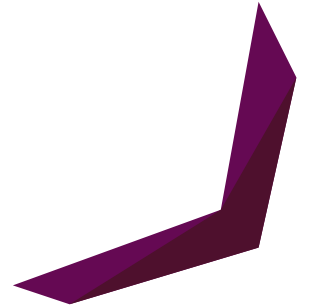
- Configuración manual del usuario
- Realizada prueba de funcionamiento



The screenshot shows the Thunderbird account configuration window. The "Your name:" field is set to "Pedro" and the "Email address:" field is set to "pedro@ifpmail.com". The "Password:" field is masked with "\*\*\*\*". There is a checkbox for "Remember password". Below these fields, a message states: "The following settings were found by probing the given server". The configuration table is as follows:

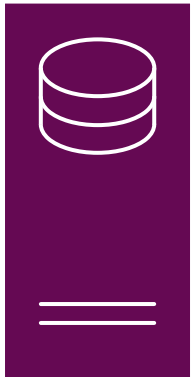
	Server hostname	Port	SSL	Authentication
Incoming:	mail.ifpmail.com	143	STARTTLS	Normal password
Outgoing:	mail.ifpmail.com	25	None	Normal password
Username: Incoming:	pedro			
Outgoing:	pedro			

At the bottom, there are buttons for "Advanced config", "Cancel", "Re-test", and "Done".

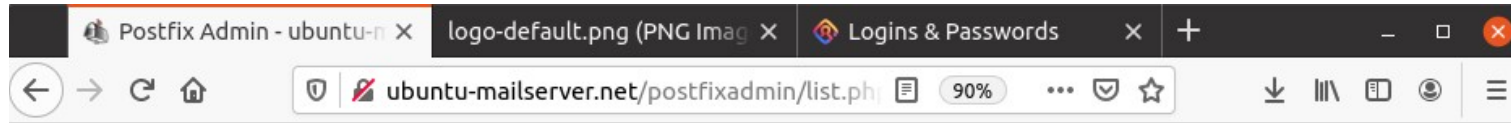


# Configuración adicional

- MariaDB (mySQL)
- Mailboxes virtuales
- PostfixAdmin



# PostfixAdmin



- Admin List
- Domain List
- Virtual List
- Fetch Email
- Send Email
- Password
- View Log
- Logout

Domain	Description	Aliases	Mailboxes	Mail server is backup MX	Active	Last modified	
ifpmail.com		<div><div></div>1 / 10</div>	<div><div></div>1 / 10</div>	NO	YES	2021-06-01	edit del

Add Domain

Download this list as CSV file

