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Caracas – Venezuela.

Instalación del servidor proxy en Zimbra 10.1 (Ubuntu 22.04)

Consideraciones Iniciales:

- El dominio a configurar en la arquitectura de correo zimbra 10.1 multiserver es: zimbra.com.ve.
- Sistema Operativo empleado Ubuntu Server LTS 22.04 LTS
- Los accesos a los servidores será a través de NAT (IP's privadas).

Contenido:

- 1.- Actualización del sistema operativo.
- 2.- Asignamos IP estática, gateway y DNS.
- 3.- Validamos todos los registros del host y el registro MX en el DNS.
- 4.- Modificar la tabla host para el ldap maestro (mta01.zimbra.com.ve).
- 5.- Cambiamos el nombre del hostname.
- 6.- Validación de la Fecha del servidor o instalación del servicio NTP.
- 7.- Instalación del servidor PRX01.

1.- Actualización del Sistema Operativo.

```
root@plantilla:~# sudo apt update  
root@plantilla:~# sudo apt upgrade -y
```

2.- Asignamos IP estática, gateway y DNS.

```
root@plantilla:~# nano /etc/netplan/00-installer-config.yaml
```

```
# This is the network config written by 'subiquity'
```

```
network:  
  ethernets:  
    eth0:  
      dhcp4: no
```



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```
addresses: [192.168.1.14/24]
gateway4: 192.168.1.1
nameservers:
  addresses: [192.168.1.6]
version: 2
```

Aplicamos los cambios, si está conectado vía ssh perderá conexión, intente conectarse con la nueva IP asignada

```
root@plantilla:~# netplan generate
root@plantilla:~# netplan apply
```

3.- Validamos todos los registros del host y el registro MX en el DNS

```
root@plantilla:~# dig A prx01.zimbra.com.ve
;; ANSWER SECTION:
prx01.zimbra.com.ve. 3600 IN A 192.168.1.14
```

```
root@plantilla:~# dig MX zimbra.com.ve
;; ANSWER SECTION:
zimbra.com.ve. 3600 IN MX 10 mta01.zimbra.com.ve.
```

```
root@plantilla:~# dig A mta01.zimbra.com.ve
;; ANSWER SECTION:
mta01.zimbra.com.ve. 3600 IN A 192.168.1.13
```

```
root@plantilla:~# dig -x 192.168.1.13
;; ANSWER SECTION:
13.1.168.192.in-addr.arpa. 3600 IN PTR mta01.zimbra.com.ve.
```



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4.- Modificar la tabla host para MTA (mta01.zimbra.com.ve)

Editamos la tabla hosts, agregamos el nombre e IP y desactivamos IPv6

```
root@plantilla:~# nano /etc/hosts
127.0.0.1 localhost
192.168.1.14 prx01.zimbra.com.ve prx01
```

The following lines are desirable for IPv6 capable hosts

```
:::1 ip6-localhost ip6-loopback
#fe00::0 ip6-localnet
#ff00::0 ip6-mcastprefix
#ff02::1 ip6-allnodes
#ff02::2 ip6-allrouters
```

5.- Cambiamos el nombre del hostname

```
root@plantilla:~# nano /etc/hostname
```

```
prx01.zimbra.com.ve
```

```
root@plantilla:~# reboot
```

6.- Validación de a Fecha del servidor o instalación del servicio NTP.

Verificar si está instalado ntp

```
apt show ntp
```

Instalar ntp

```
apt install ntp
```

Detener el ntp

```
/etc/init.d/ntp stop
```



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Editamos el documento de configuración
nano /etc/ntp.conf

Sincronizar con el servidor ntp
ntpdate xxxx.yyyy.zzzz.tttt

Iniciar de nuevo el servicio ntp
/etc/init.d/ntp start

7.- Instalación del servidor MTA01.

```
root@prx01:/usr/local/src/zcs# ./install.sh
```

Do you agree with the terms of the software license agreement? [N] y

Use Zimbra's package repository [Y] y

Importing Zimbra GPG key

Configuring package repository

Checking for installable packages

Found zimbra-core (local)

Found zimbra-ldap (local)

Found zimbra-logger (local)

Found zimbra-mta (local)

Found zimbra-dnscache (local)

Found zimbra-snmp (local)

Found zimbra-license-daemon (repo)

Found zimbra-store (local)

Found zimbra-apache (local)



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Found zimbra-spell (local)
Found zimbra-convertd (local)
Found zimbra-memcached (repo)
Found zimbra-proxy (local)
Found zimbra-archiving (local)
Found zimbra-onlyoffice (repo)
Found zimbra-license-tools (local)
Found zimbra-license-extension (local)
Found zimbra-network-store (local)
Found zimbra-modern-ui (repo)
Found zimbra-modern-zimlets (repo)
Found zimbra-zimlet-document-editor (repo)
Found zimbra-zimlet-classic-document-editor (repo)
Found zimbra-zimlet-classic-set-default-client (repo)
Found zimbra-patch (repo)
Found zimbra-mta-patch (repo)
Found zimbra-proxy-patch (repo)
Found zimbra-ldap-patch (repo)

Select the packages to install

Install zimbra-ldap [Y] n
Install zimbra-logger [Y] n
Install zimbra-mta [Y] n
Install zimbra-dnscache [N] n
Install zimbra-snmp [Y] y
Install zimbra-license-daemon [Y] n
Install zimbra-store [Y] n
Install zimbra-apache [Y] n
Install zimbra-spell [Y] n
Install zimbra-memcached [Y] y
Install zimbra-proxy [Y] y
Install zimbra-archiving [N] n



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Install zimbra-onlyoffice [Y] n

Checking required space for zimbra-core

Installing:

- zimbra-core
- zimbra-snmp
- zimbra-memcached
- zimbra-proxy
- zimbra-license-tools
- zimbra-proxy-patch

The system will be modified. Continue? [N] y

Beginning Installation - see /tmp/install.log.h85Gg5yk for details...

- zimbra-core-components will be downloaded and installed.
- zimbra-timezone-data will be installed.
- zimbra-common-core-jar will be installed.
- zimbra-common-mbox-conf-attrs will be installed.
- zimbra-common-mbox-conf-msgs will be installed.
- zimbra-common-mbox-native-lib will be installed.
- zimbra-common-mbox-conf-rights will be installed.
- zimbra-common-mbox-conf will be installed.
- zimbra-common-mbox-db will be installed.
- zimbra-common-mbox-docs will be installed.
- zimbra-common-core-libs will be installed.
- zimbra-core will be installed.
- zimbra-snmp-components will be downloaded and installed.
- zimbra-snmp will be installed.
- zimbra-memcached will be downloaded and installed.
- zimbra-proxy-components will be downloaded and installed.
- zimbra-proxy will be installed.
- zimbra-license-tools will be installed.
- zimbra-proxy-patch will be downloaded and installed (later).



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Downloading packages (4):

zimbra-core-components
zimbra-snmp-components
zimbra-memcached
zimbra-proxy-components
...done

Removing /opt/zimbra

Removing zimbra crontab entry...done.

Cleaning up zimbra init scripts...done.

Cleaning up /etc/security/limits.conf...done.

Finished removing Zimbra Collaboration Server.

Installing repo packages (4):

zimbra-core-components
zimbra-snmp-components
zimbra-memcached
zimbra-proxy-components
...done

Installing local packages (14):

zimbra-timezone-data
zimbra-common-core-jar
zimbra-common-mbox-conf-attrs
zimbra-common-mbox-conf-msgs
zimbra-common-mbox-native-lib
zimbra-common-mbox-conf-rights
zimbra-common-mbox-conf



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```
zimbra-common-mbox-db
zimbra-common-mbox-docs
zimbra-common-core-libs
zimbra-core
zimbra-snmp
zimbra-proxy
zimbra-license-tools
...done
```

Installing extra packages (1):

```
zimbra-proxy-patch
...done
```

Running Post Installation Configuration:

```
Copying /tmp/install.log.h85Gg5yk to /opt/zimbra/log
Operations logged to /tmp/zmsetup.20240824-134802.log
Setting defaults...done.
Checking for port conflicts
```

Main menu

1) Common Configuration:

```
+Hostname:                prx01.zimbra.com.ve
***** +Ldap master host:          UNSET
+Ldap port:                389
***** +Ldap Admin password:      UNSET
+LDAP Base DN:            cn=zimbra
+Store ephemeral attributes outside Ldap: no
+Secure interprocess communications: yes
+TimeZone:                UTC
+IP Mode:                  ipv4
+Default SSL digest:      sha256
```



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- 2) zimbra-snmp: Enabled
- 3) zimbra-proxy: Enabled
- 4) Enable default backup schedule: yes
- s) Save config to file
- x) Expand menu
- q) Quit

Address unconfigured (**) items (? - help) 1

Common configuration

- 1) Hostname: prx01.zimbra.com.ve
- ** 2) Ldap master host: UNSET
- 3) Ldap port: 389
- ** 4) Ldap Admin password: UNSET
- 5) LDAP Base DN: cn=zimbra
- 6) Store ephemeral attributes outside Ldap: no
- 7) Secure interprocess communications: yes
- 8) TimeZone: UTC
- 9) IP Mode: ipv4
- 10) Default SSL digest: sha256

Select, or 'r' for previous menu [r] 2

Please enter the ldap server hostname: ldapm01.zimbra.com.ve



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Common configuration

- 1) Hostname: prx01.zimbra.com.ve
- 2) Ldap master host: ldapm01.zimbra.com.ve
- 3) Ldap port: 389
- ** 4) Ldap Admin password: UNSET
- 5) LDAP Base DN: cn=zimbra
- 6) Store ephemeral attributes outside Ldap: no
- 7) Secure interprocess communications: yes
- 8) TimeZone: UTC
- 9) IP Mode: ipv4
- 10) Default SSL digest: sha256

Select, or 'r' for previous menu [r] 4

Password for ldap admin user (min 6 characters): [cfrds3] 123456

Setting defaults from ldap...done.

Common configuration

- 1) Hostname: prx01.zimbra.com.ve
- 2) Ldap master host: ldapm01.zimbra.com.ve
- 3) Ldap port: 389
- 4) Ldap Admin password: set
- 5) LDAP Base DN: cn=zimbra
- 6) Store ephemeral attributes outside Ldap: yes
- 7) Value for zimbraEphemeralBackendURL: ldap://default
- 8) Secure interprocess communications: yes
- 9) TimeZone: America/Caracas
- 10) IP Mode: ipv4
- 11) Default SSL digest: sha256



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Select, or 'r' for previous menu [r] r

Main menu

1) Common Configuration:

+Hostname: prx01.zimbra.com.ve
+Ldap master host: ldapm01.zimbra.com.ve
+Ldap port: 389
+Ldap Admin password: set
+LDAP Base DN: cn=zimbra
+Store ephemeral attributes outside Ldap: yes
+Value for zimbraEphemeralBackendURL: ldap://default
+Secure interprocess communications: yes
+TimeZone: America/Caracas
+IP Mode: ipv4
+Default SSL digest: sha256

2) zimbra-snmp: Enabled

3) zimbra-proxy: Enabled

+Enable POP/IMAP Proxy: TRUE
+Enable strict server name enforcement? TRUE
+IMAP server port: 7143
+IMAP server SSL port: 7993
+IMAP proxy port: 143
+IMAP SSL proxy port: 993
+POP server port: 7110
+POP server SSL port: 7995
+POP proxy port: 110
+POP SSL proxy port: 995

***** +Bind password for nginx ldap user: Not Verified

+Enable HTTP[S] Proxy: TRUE
+Web server HTTP port: 8080
+Web server HTTPS port: 8443



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+HTTP proxy port: 80
+HTTPS proxy port: 443
+Proxy server mode: https

- 4) Enable default backup schedule: yes
- s) Save config to file
- x) Expand menu
- q) Quit

Address unconfigured (**) items (? - help) 2

Snmp configuration

- 1) Status: Enabled
- 2) Enable SNMP notifications: yes
- 3) SNMP Trap hostname: prx01.zimbra.com.ve
- 4) Enable SMTP notifications: yes
- 5) SMTP Source email address: admin@prx01.zimbra.com.ve
- 6) SMTP Destination email address: admin@prx01.zimbra.com.ve

Select, or 'r' for previous menu [r] 5

SMTP Source address: [admin@prx01.zimbra.com.ve] admin@zimbra.com.ve

Snmp configuration

- 1) Status: Enabled
- 2) Enable SNMP notifications: yes
- 3) SNMP Trap hostname: prx01.zimbra.com.ve
- 4) Enable SMTP notifications: yes
- 5) SMTP Source email address: admin@zimbra.com.ve
- 6) SMTP Destination email address: admin@prx01.zimbra.com.ve



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Select, or 'r' for previous menu [r] 6

SMTP Destination address: [admin@prx01.zimbra.com.ve] admin@zimbra.com.ve

Snmp configuration

- 1) Status: Enabled
- 2) Enable SNMP notifications: yes
- 3) SNMP Trap hostname: prx01.zimbra.com.ve
- 4) Enable SMTP notifications: yes
- 5) SMTP Source email address: admin@zimbra.com.ve
- 6) SMTP Destination email address: admin@zimbra.com.ve

Select, or 'r' for previous menu [r] r

Main menu

- 1) Common Configuration:
 - +Hostname: prx01.zimbra.com.ve
 - +Ldap master host: ldapm01.zimbra.com.ve
 - +Ldap port: 389
 - +Ldap Admin password: set
 - +LDAP Base DN: cn=zimbra
 - +Store ephemeral attributes outside Ldap: yes
 - +Value for zimbraEphemeralBackendURL: ldap://default
 - +Secure interprocess communications: yes
 - +TimeZone: America/Caracas
 - +IP Mode: ipv4
 - +Default SSL digest: sha256



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- 2) zimbra-snmp: Enabled
- 3) zimbra-proxy: Enabled
 - +Enable POP/IMAP Proxy: TRUE
 - +Enable strict server name enforcement? TRUE
 - +IMAP server port: 7143
 - +IMAP server SSL port: 7993
 - +IMAP proxy port: 143
 - +IMAP SSL proxy port: 993
 - +POP server port: 7110
 - +POP server SSL port: 7995
 - +POP proxy port: 110
 - +POP SSL proxy port: 995
 - ***** +Bind password for nginx ldap user: Not Verified
 - +Enable HTTP[S] Proxy: TRUE
 - +Web server HTTP port: 8080
 - +Web server HTTPS port: 8443
 - +HTTP proxy port: 80
 - +HTTPS proxy port: 443
 - +Proxy server mode: https
- 4) Enable default backup schedule: yes
- s) Save config to file
- x) Expand menu
- q) Quit

Address unconfigured (**) items (? - help) 3

Proxy configuration

- 1) Status: Enabled
- 2) Enable POP/IMAP Proxy: TRUE



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- 3) Enable strict server name enforcement? TRUE
- 4) IMAP server port: 7143
- 5) IMAP server SSL port: 7993
- 6) IMAP proxy port: 143
- 7) IMAP SSL proxy port: 993
- 8) POP server port: 7110
- 9) POP server SSL port: 7995
- 10) POP proxy port: 110
- 11) POP SSL proxy port: 995
- **12) Bind password for nginx ldap user: Not Verified
- 13) Enable HTTP[S] Proxy: TRUE
- 14) Web server HTTP port: 8080
- 15) Web server HTTPS port: 8443
- 16) HTTP proxy port: 80
- 17) HTTPS proxy port: 443
- 18) Proxy server mode: https

Select, or 'r' for previous menu [r] 12

Password for ldap Nginx user (min 6 characters): [_mRPyPlfai] 123456

Proxy configuration

- 1) Status: Enabled
- 2) Enable POP/IMAP Proxy: TRUE
- 3) Enable strict server name enforcement? TRUE
- 4) IMAP server port: 7143
- 5) IMAP server SSL port: 7993
- 6) IMAP proxy port: 143
- 7) IMAP SSL proxy port: 993



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- 8) POP server port: 7110
- 9) POP server SSL port: 7995
- 10) POP proxy port: 110
- 11) POP SSL proxy port: 995
- 12) Bind password for nginx ldap user: set
- 13) Enable HTTP[S] Proxy: TRUE
- 14) Web server HTTP port: 8080
- 15) Web server HTTPS port: 8443
- 16) HTTP proxy port: 80
- 17) HTTPS proxy port: 443
- 18) Proxy server mode: https

Select, or 'r' for previous menu [r] r

Main menu

- 1) Common Configuration:
- 2) zimbra-snmp: Enabled
- 3) zimbra-proxy: Enabled
- 4) Enable default backup schedule: yes
- s) Save config to file
- x) Expand menu
- q) Quit

*** CONFIGURATION COMPLETE - press 'a' to apply
Select from menu, or press 'a' to apply config (? - help) a
Save configuration data to a file? [Yes] yes
Save config in file: [/opt/zimbra/config.7937]
Saving config in /opt/zimbra/config.7937...done.
The system will be modified - continue? [No] yes
Operations logged to /tmp/zmsetup.20240824-134802.log



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Setting local config values...done.
Initializing core config...Updating ldap_root_password and zimbra_ldap_password...done.
Setting up CA...done.
Deploying CA to /opt/zimbra/conf/ca ...done.
Creating zimbra-proxy SSL certificate...done.
Installing Proxy SSL certificate...done.
Creating server entry for prx01.zimbra.com.ve...done.
Setting Zimbra IP Mode...done.
Saving CA in ldap...done.
Saving SSL Certificate in ldap...done.
Disabling strict server name enforcement on prx01.zimbra.com.ve...done.
WARNING: There is currently no mailstore to proxy. Proxy will restart once one becomes available.
Setting services on prx01.zimbra.com.ve...done.
Configuring SNMP...done.
Setting up syslog.conf...done.
Setting default backup schedule...Done
Setting zimbraReverseProxySSLProtocols...done.
Setting java options...done.
Starting servers...done.
Skipping creation of default domain GAL sync account - not a service node.
Setting up zimbra crontab...done.

Moving /tmp/zmsetup.20240824-134802.log to /opt/zimbra/log

Configuration complete - press return to exit



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