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Caracas – Venezuela.

Instalación del servidor maestro LDAP de Zimbra 10.1 (Ubuntu 22.04)

Consideraciones Iniciales:

- El dominio a configurar en la arquitectura de correo zimbra10.1 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 (ldapm01.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 LDAP MAESTRO.

1.- Actualización del Sistema Operativo.

```
root@ldapm01: sudo apt update  
root@ldapm01: sudo apt upgrade -y
```

2.- Asignamos IP estática, gateway y DNS.

```
root@ldapm01: /# 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: [192.168.1.12/24]

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@ldapm01:/# netplan generate
```

```
root@ldapm01:/# netplan apply
```

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

```
root@ldapm01:/# dig A ldapm01.zimbra.com.ve
```

```
;; ANSWER SECTION:
```

```
ldapm01.zimbra.com.ve. 0 IN A 192.168.1.12
```

```
root@ldapm01:/# root@ldapm01:/# dig MX zimbra.com.ve
```

```
;; ANSWER SECTION:
```

```
zimbra.com.ve. 1909 IN MX 10 mta01.zimbra.com.ve.
```

```
root@ldapm01:/# dig A mta01.zimbra.com.ve
```

```
;; ANSWER SECTION:
```

```
mta01.zimbra.com.ve. 3600 IN A 192.168.1.13
```

```
root@ldapm01:/# 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 el ldap maestro (ldapm01.zimbra.com.ve)

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

```
root@ldapm01:/# nano /etc/hosts
127.0.0.1 localhost
192.168.1.12 ldapm01.zimbra.com.ve ldapm01
```

```
# The following lines are desirable for IPv6 capable hosts
#::1 ip6-localhost ip6-loopback localhost
#fe00::0 ip6-localnet
#ff00::0 ip6-mcastprefix
#ff02::1 ip6-allnodes
#ff02::2 ip6-allrouters
```

5.- Cambiamos el nombre del hostname

```
root@ldapm01:/# nano /etc/hostname
```

```
ldapm01.zimbra.com.ve
```

```
root@ldapm01:/# 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 LDAP MAESTRO.

```
root@ldapm01:/usr/local/src/zcs# ./install.sh
Operations logged to /tmp/install.log.A6glNfG8
Checking for existing installation...
zimbra-license-tools...NOT FOUND
zimbra-license-extension...NOT FOUND
zimbra-network-store...NOT FOUND
zimbra-modern-ui...NOT FOUND
zimbra-modern-zimlets...NOT FOUND
zimbra-zimlet-document-editor...NOT FOUND
zimbra-zimlet-classic-document-editor...NOT FOUND
zimbra-patch...NOT FOUND
zimbra-mta-patch...NOT FOUND
zimbra-proxy-patch...NOT FOUND
zimbra-ldap-patch...NOT FOUND
zimbra-ldap...NOT FOUND
zimbra-logger...NOT FOUND
zimbra-mta...NOT FOUND
zimbra-dnscache...NOT FOUND
zimbra-snmp...NOT FOUND
zimbra-store...NOT FOUND
```



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zimbra-apache...NOT FOUND
zimbra-spell...NOT FOUND
zimbra-convertd...NOT FOUND
zimbra-memcached...NOT FOUND
zimbra-proxy...NOT FOUND
zimbra-archiving...NOT FOUND
zimbra-onlyoffice...NOT FOUND
zimbra-core...NOT FOUND
zimbra-zimlet-chat-video-classic...NOT FOUND
zimbra-zimlet-chat-video-modern...NOT FOUND
zimbra-extension-chat-video...NOT FOUND

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END USER LICENSE AGREEMENT
FOR ZIMBRA NETWORK EDITION

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Do you agree with the terms of the software license agreement? [N] y
Use Zimbra's package repository [Y] y

Warning: apt-key output should not be parsed (stdout is not a terminal)
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-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-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-mta-patch (repo)
Found zimbra-proxy-patch (repo)
Found zimbra-ldap-patch (repo)

Select the packages to install

Install zimbra-ldap [Y] y
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] n
Install zimbra-proxy [Y] n
Install zimbra-archiving [N] n
Install zimbra-onlyoffice [Y] n
Checking required space for zimbra-core Checking required space for zimbra-core
Installing:
zimbra-core
zimbra-ldap
zimbra-snmp
zimbra-license-tools
zimbra-ldap-patch



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

Beginning Installation - see /tmp/install.log.5oYMEhD3 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-ldap-components will be downloaded and installed.
- zimbra-ldap will be installed.
- zimbra-snmp-components will be downloaded and installed.
- zimbra-snmp will be installed.
- zimbra-license-tools will be installed.
- zimbra-ldap-patch will be downloaded and installed (later).

Downloading packages (3):

- zimbra-core-components
- zimbra-ldap-components
- zimbra-snmp-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.



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Installing repo packages (3):

```
zimbra-core-components  
zimbra-ldap-components  
zimbra-snmp-components  
...done
```

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

Running Post Installation Configuration:

```
Copying /tmp/install.log.5oYMEhD3 to /opt/zimbra/log  
Operations logged to /tmp/zmsetup.20240824-002521.log  
Installing LDAP configuration database...done.  
Setting defaults...
```



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DNS ERROR resolving MX for ldapm01.zimbra.com.ve

It is suggested that the domain name have an MX record configured in DNS

Change domain name? [Yes] yes

Create domain: [ldapm01.zimbra.com.ve] zimbra.com.ve
done.

Checking for port conflicts

DNS ERROR resolving MX for ldapm01.zimbra.com.ve

It is suggested that the domain name have an MX record configured in DNS

Change domain name? [Yes] yes

Create domain: [ldapm01.zimbra.com.ve] zimbra.com.ve
done.

Checking for port conflicts

Main menu

- 1) Common Configuration:
- 2) zimbra-ldap: Enabled
- 3) zimbra-snmp: 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)1

Common configuration

- 1) Hostname: ldapm01.zimbra.com.ve
- 2) Ldap master host: ldapm01.zimbra.com.ve



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- 3) Ldap port: 389
- 4) Ldap Admin password: set
- 5) Store ephemeral attributes outside Ldap: no
- 6) Secure interprocess communications: yes
- 7) TimeZone: UTC
- 8) IP Mode: ipv4
- 9) Default SSL digest: sha256

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

Password for ldap admin user (min 6 characters): [FqM3A1SE] 123456

Common configuration

- 1) Hostname: ldapm01.zimbra.com.ve
- 2) Ldap master host: ldapm01.zimbra.com.ve
- 3) Ldap port: 389
- 4) Ldap Admin password: set
- 5) Store ephemeral attributes outside Ldap: no
- 6) Secure interprocess communications: yes
- 7) TimeZone: America/Caracas
- 8) IP Mode: ipv4
- 9) Default SSL digest: sha256

Select, or 'r' for previous menu [r] 7

Enter the number for the local timezone: [137] 20

LDAP Admin Password 123456

LDAP Host name ldapm01.zimbra.com.ve

LDAP Port 389



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Common configuration

- 1) Hostname: ldapm01.zimbra.com.ve
- 2) Ldap master host: ldapm01.zimbra.com.ve
- 3) Ldap port: 389
- 4) Ldap Admin password: set
- 5) Store ephemeral attributes outside Ldap: no
- 6) Secure interprocess communications: yes
- 7) TimeZone: America/Caracas
- 8) IP Mode: ipv4
- 9) Default SSL digest: sha256

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

Main menu

- 1) Common Configuration:
- 2) zimbra-ldap: Enabled
- 3) zimbra-snmp: 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) 2



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Ldap configuration

- 1) Status: Enabled
- 2) Create Domain: yes
- 3) Domain to create: zimbra.com.ve
- 4) Ldap root password: set
- 5) Ldap replication password: set
- 6) Ldap postfix password: set
- 7) Ldap amavis password: set
- 8) Ldap nginx password: set
- 9) Ldap Bes Searcher password: set

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

Password for ldap root user (min 6 characters): [FqM3A1SE] 123456

Ldap configuration

- 1) Status: Enabled
- 2) Create Domain: yes
- 3) Domain to create: zimbra.com.ve
- 4) Ldap root password: set
- 5) Ldap replication password: set
- 6) Ldap postfix password: set
- 7) Ldap amavis password: set
- 8) Ldap nginx password: set
- 9) Ldap Bes Searcher password: set

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

Password for ldap replication user (min 6 characters): [FqM3A1SE] 123456

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



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Ldap configuration

- 1) Status: Enabled
- 2) Create Domain: yes
- 3) Domain to create: zimbra.com.ve
- 4) Ldap root password: set
- 5) Ldap replication password: set
- 6) Ldap postfix password: set
- 7) Ldap amavis password: set
- 8) Ldap nginx password: set
- 9) Ldap Bes Searcher password: set

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

Password for Ldap Postfix user (min 6 characters): [FqM3A1SE] 123456

Ldap configuration

- 1) Status: Enabled
- 2) Create Domain: yes
- 3) Domain to create: zimbra.com.ve
- 4) Ldap root password: set
- 5) Ldap replication password: set
- 6) Ldap postfix password: set
- 7) Ldap amavis password: set
- 8) Ldap nginx password: set
- 9) Ldap Bes Searcher password: set

Select, or 'r' for previous menu [r] 7

Password for Ldap Amavis user (min 6 characters): [FqM3A1SE] 123456



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Ldap configuration

- 1) Status: Enabled
- 2) Create Domain: yes
- 3) Domain to create: zimbra.com.ve
- 4) Ldap root password: set
- 5) Ldap replication password: set
- 6) Ldap postfix password: set
- 7) Ldap amavis password: set
- 8) Ldap nginx password: set
- 9) Ldap Bes Searcher password: set

Select, or 'r' for previous menu [r] 8

Password for ldap Nginx user (min 6 characters): [FqM3A1SE] 123456

Ldap configuration

- 1) Status: Enabled
- 2) Create Domain: yes
- 3) Domain to create: zimbra.com.ve
- 4) Ldap root password: set
- 5) Ldap replication password: set
- 6) Ldap postfix password: set
- 7) Ldap amavis password: set
- 8) Ldap nginx password: set
- 9) Ldap Bes Searcher password: set

Select, or 'r' for previous menu [r] 9

Password for ldap BES user (min 6 characters): [FqM3A1SE] 123456



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Ldap configuration

- 1) Status: Enabled
- 2) Create Domain: yes
- 3) Domain to create: zimbra.com.ve
- 4) Ldap root password: set
- 5) Ldap replication password: set
- 6) Ldap postfix password: set
- 7) Ldap amavis password: set
- 8) Ldap nginx password: set
- 9) Ldap Bes Searcher password: set

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

Select from menu, or press 'a' to apply config (? - help) 3

Snmp configuration

- 1) Status: Enabled
- 2) Enable SNMP notifications: yes
- 3) SNMP Trap hostname: ldapm01.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



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Main menu

- 1) Common Configuration:
- 2) zimbra-ldap: Enabled
- 3) zimbra-snmp: 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.7132] ENTER
Saving config in /opt/zimbra/config.7132...done.
The system will be modified - continue? [No] yes
Operations logged to /tmp/zmsetup.20240824-002521.log

Ldap replication password _____123456_____

Ldap postfix password _____123456_____

Ldap amavis password _____123456_____

Ldap nginx password _____123456_____



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Setting local config values...done.
Initializing core config...Setting up CA...done.
Deploying CA to /opt/zimbra/conf/ca ...done.
Creating zimbra-ldap SSL certificate...done.
Installing LDAP SSL certificate...done.
Initializing ldap...done.
Setting replication password...done.
Setting Postfix password...done.
Setting amavis password...done.
Setting nginx password...done.
Setting BES searcher password...done.
Creating server entry for ldapm01.zimbra.com.ve...done.
Setting Zimbra IP Mode...done.
Saving CA in ldap...done.
Saving SSL Certificate in ldap...done.
Updating zimbraLDAPSchemaVersion to version '1717060748'
Setting TimeZone Preference...done.
Setting services on ldapm01.zimbra.com.ve...done.
Creating domain zimbra.com.ve...done.
Setting default domain name...done.
Setting up default domain admin UI components...done.
Granting group zimbraDomainAdmins@zimbra.com.ve domain right +domainAdminConsoleRights on zimbra.com.ve...done.
Granting group zimbraDomainAdmins@zimbra.com.ve global right +domainAdminZimletRights...done.
Setting up global distribution list admin UI components..done.
Granting group zimbraDLAdmins@zimbra.com.ve global right +adminConsoleDLRights...done.
Granting group zimbraDLAdmins@zimbra.com.ve global right +listAccount...done.
Configuring SNMP...done.
Setting up syslog.conf...done.
Setting default backup schedule...Done



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```
Setting zimbraLicenseNotificationEmail...done.  
Setting ldap_common_tlsciphersuite...done.  
Setting ldap_common_tlsprotocolmin...done.  
Setting java options...done.  
Checking ldap status....not running.  
Starting ldap...done.  
Starting servers...done.  
Skipping creation of default domain GAL sync account - not a service node.  
Setting up zimbra crontab...done.
```

```
Moving /tmp/zmsetup.20240824-002521.log to /opt/zimbra/log
```

```
Configuration complete - press return to exit
```



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Supervisión del estado de los servidores LDAP Maestros.

Requisito de la función

Ejecute el script `zmreplchk` ubicado en `/opt/zimbra/libexec`.

Este script debe ejecutarse en un servidor Zimbra 10 que tenga un valor `localconfig` establecido para `ldap_url` que incluya todos los servidores maestros.

Códigos de error y explicaciones de estado

Con esta función se proporcionan los siguientes códigos de error de monitoreo y explicaciones de estado:

```
zimbra@ldapm02:~$ cd /opt/zimbra/libexec
```

```
zimbra@ldapm02:~/libexec$ ./zmreplchk
```

```
Master: ldap://ldapm02.zimbra.com.ve:389 ServerID: 2 Code: 0 Status: In Sync CSNs: 20240824234516.193133Z#000000#001#000000
```

```
Master: ldap://ldapm01.zimbra.com.ve:389 ServerID: 1 Code: 0 Status: In Sync CSNs: 20240824234516.193133Z#000000#001#000000
```

| Error Code | Status | Description |
|------------|----------------------------|--|
| 0 | In Sync | Los servidores están sincronizados actualmente. |
| 1 | No contact | No hay conexión con el servidor maestro y el sistema se cierra. |
| 2 | Stand-alone | El servidor maestro no tiene servidores de réplica y se considera un servidor maestro independiente. |
| 3 | Could not execute StartTLS | El servidor de réplica requiere StartTLS y falla. |
| 4 | Server down | El servidor de réplica está inactivo actualmente. |
| 5 | Unable to search | La búsqueda del CSN de contexto en el servidor de réplica falla. |
| 6 | Xw Xd Xh Xm Xs behind | El servidor de réplica deja de estar sincronizado. El estado indica la cantidad de tiempo que el servidor de réplica está detrás del servidor maestro en w=semanas, d=días, h=horas, m=minutos y s=segundos. |



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