

# Instalación de Zimbra

Vamos a utilizar la guía disponible en [este enlace](#), para comenzar la instalación de zimbra.

The screenshot shows a web browser displaying a blog post from Zimbra.com. The page title is "How to Install Zimbra Collaboration 8.8 on Ubuntu 16.04 LTS" by Jorge De La Cruz, dated January 22, 2018. The article features a banner with the text "zimbra 8.8 NOW FASTER the future's so bright" and a racing car. The main content begins with a greeting and an introduction to the installation steps for Zimbra Collaboration 8.8 Network Edition on Ubuntu 16.04 LTS, mentioning the use of dnsmasq as a DNS server. A list of steps is provided, including creating a VM on VMware ESXi, OS requirements, operating system installation, OS configuration, and Zimbra Collaboration 8.8 installation. The first step, "1. Creating the VM on VMware ESXi (vmxnet3 y pvscsi)", is highlighted. To the right of the article, there is a newsletter subscription form, social media links, and a section titled "Topics" with links to Company News, Open Source, Zimlets, Product Updates, Security & Privacy, and Podcasts. At the bottom right, there is a banner for the "Ponemon Open Source Collaboration Study" with a "Download" button.

## Preparando la máquina

La máquina objetivo requiere tres cosas.. Configurar un SplitDNS dentro de la máquina, preparar las interfaces de red, y tener correctamente configurados sus hosts.

IP

Se configura una IP estática. En este caso, se utiliza la IP provista por la red interna de VBox.

```
kuky_nekoi@Triage: ~/zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917
GNU nano 2.2.6 File: /etc/network/interfaces

# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto eth0
iface eth0 inet dhcp

auto eth1
iface eth1 inet static
    address 192.168.56.20
    netmask 255.255.255.0
    network 192.168.56.0
    broadcast 192.168.56.255
    dns-nameservers 127.0.0.1
```

Adicionalmente se configura el archivo resolv.conf para evitar problemas con la resolución de nombres.

```
root@Triage:~# cat /etc/resolv.conf
# Dynamic resolv.conf(5) file for glibc resolver(3) generated by resolvconf(8)
#     DO NOT EDIT THIS FILE BY HAND -- YOUR CHANGES WILL BE OVERWRITTEN
nameserver 127.0.0.1
nameserver 8.8.8.8
root@Triage:~#
```

## Hosts

Luego editamos el archivo hosts. Hay que tener cuidado con esta parte ya que si se hace de manera incorrecta, la instalación falla en medio del proceso. Acá es necesario declarar nuestra configuración para el SplitDNS que deseamos, a modo de que pueda resolver la máquina su propia dirección.

[illegible]

Luego de esto, se pueden reiniciar los servicios de red o bien reiniciar el equipo.

## SplitDNS

Para la configuración de splitDNS vamos a utilizar **dnsmask**, un servicio que nos permite levantar un servidor DNS en relativamente corto tiempo y sin tanta configuración.

```
kuky_nekoi@Triage:~$ sudo apt-get install dnsmasq
[sudo] password for kuky_nekoi:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  dnsmasq-base libmn10 libnetfilter-conntrack3
The following NEW packages will be installed:
  dnsmasq dnsmasq-base libmn10 libnetfilter-conntrack3
0 upgraded, 4 newly installed, 0 to remove and 3 not upgraded.
Need to get 330 kB of archives.
After this operation, 980 kB of additional disk space will be used.
Do you want to continue? [Y/n]
```

Por desgracia, durante el proceso de instalación se instaló también **bind9**, un servicio de DNS, el cual es necesario remover para el correcto funcionamiento de **dnsmasq**.

```
kuky_nekoi@Triage:~$ netstat -tulnp | grep :53
(No info could be read for "-p": geteuid()=1000 but you should be root.)
tcp        0      0 192.168.56.20:53      0.0.0.0:*              LISTEN      -
tcp        0      0 10.0.2.15:53          0.0.0.0:*              LISTEN      -
tcp        0      0 127.0.0.1:53           0.0.0.0:*              LISTEN      -
tcp6       0      0 :::53                  :::*                    LISTEN      -
udp        0      0 192.168.56.20:53      0.0.0.0:*              -
udp        0      0 10.0.2.15:53          0.0.0.0:*              -
udp        0      0 127.0.0.1:53           0.0.0.0:*              -
udp6       0      0 :::53                  :::*                    -

kuky_nekoi@Triage:~$ sudo netstat -tulnp | grep :53
tcp        0      0 192.168.56.20:53      0.0.0.0:*              LISTEN      1106/named
tcp        0      0 10.0.2.15:53          0.0.0.0:*              LISTEN      1106/named
tcp        0      0 127.0.0.1:53           0.0.0.0:*              LISTEN      1106/named
tcp6       0      0 :::53                  :::*                    LISTEN      1106/named
udp        0      0 192.168.56.20:53      0.0.0.0:*              1106/named
udp        0      0 10.0.2.15:53          0.0.0.0:*              1106/named
udp        0      0 127.0.0.1:53           0.0.0.0:*              1106/named
udp6       0      0 :::53                  :::*                    1106/named

kuky_nekoi@Triage:~$ apt-get remove named
E: Could not open lock file /var/lib/dpkg/lock - open (13: Permission denied)
E: Unable to lock the administration directory (/var/lib/dpkg/), are you root?
kuky_nekoi@Triage:~$ sudo apt-get remove named
Reading package lists... Done
Building dependency tree
Reading state information... Done
E: Unable to locate package named
kuky_nekoi@Triage:~$ apt-get remove bind9
E: Could not open lock file /var/lib/dpkg/lock - open (13: Permission denied)
E: Unable to lock the administration directory (/var/lib/dpkg/), are you root?
kuky_nekoi@Triage:~$ sudo apt-get remove bind9
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages will be REMOVED:
  bind9
0 upgraded, 0 newly installed, 1 to remove and 3 not upgraded.
After this operation, 978 kB disk space will be freed.
Do you want to continue? [Y/n] Y
```

Luego **dnsmasq** puede ser utilizado normalmente.

```

kuky_nekoi@Triage:~$ sudo apt-get remove bind9
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages will be REMOVED:
  bind9
0 upgraded, 0 newly installed, 1 to remove and 3 not upgraded.
After this operation, 978 kB disk space will be freed.
Do you want to continue? [Y/n] Y
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
    LANGUAGE = "en_GB:en",
    LC_ALL = (unset),
    LC_CTYPE = "UTF-8",
    LANG = "en_GB.UTF-8"
are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").
locale: Cannot set LC_CTYPE to default locale: No such file or directory
locale: Cannot set LC_ALL to default locale: No such file or directory
(Reading database ... 59014 files and directories currently installed.)
Removing bind9 (1:9.9.5.dfsg-3ubuntu0.17) ...
* Stopping domain name service... bind9
Processing triggers for man-db (2.6.7.1-1ubuntu1) ...
kuky_nekoi@Triage:~$

```

[ OK ]

Luego de esto, es necesario cambiar la configuración de **dnsmasq**.

```

# Configuration file for dnsmasq.
#
# Format is one option per line, legal options are the same
# as the long options legal on the command line. See
# "/usr/sbin/dnsmasq --help" or "man 8 dnsmasq" for details.
server=8.8.8.8
listen-address=127.0.0.1
domain=zimbra.io
mx-host=zimbra.io,zcs-886.zimbra.io,0
address=/zcs-886.zimbra.io/192.168.56.20
# Listen on this specific port instead of the standard DNS port
# (53). Setting this to zero completely disables DNS function,
# leaving only DHCP and/or TFTP.
#port=5353

# The following two options make you a better netizen, since they
# tell dnsmasq to filter out queries which the public DNS cannot
# answer, and which load the servers (especially the root servers)
# unnecessarily. If you have a dial-on-demand link they also stop
# these requests from bringing up the link unnecessarily.

# Never forward plain names (without a dot or domain part)
#domain-needed
# Never forward addresses in the non-routed address spaces.
#bogus-priv

"/etc/dnsmasq.conf" 634L, 25346C written

```

Finalmente, reiniciamos el servicio

```

kuky_nekoi@Triage:~$ sudo service dnsmasq restart
* Restarting DNS forwarder and DHCP server dnsmasq
kuky_nekoi@Triage:~$

```

[ fail ]

[ OK ]

Luego la guía sugiere realizar unas pruebas sobre este servidor para verificar que todo esté funcionando normalmente. Para esto utilizamos el comando **dig** para realizar una consulta DNS.

```
kuky_nekoi@Triage:~$ dig zcs-886.zimbra.io

; <<>> DiG 9.9.5-3ubuntu0.17-Ubuntu <<>> zcs-886.zimbra.io
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 45010
;; flags: qr aa rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 0

;; QUESTION SECTION:
;zcs-886.zimbra.io.          IN      A

;; ANSWER SECTION:
zcs-886.zimbra.io.          0      IN      A      192.168.56.0

;; Query time: 0 msec
;; SERVER: 127.0.0.1#53(127.0.0.1)
;; WHEN: Fri Aug 17 01:08:00 -03 2018
;; MSG SIZE  rcvd: 51

kuky_nekoi@Triage:~$
```

```
New release '16.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Your Hardware Enablement Stack (HWE) is supported until April 2019.
Last login: Fri Aug 17 01:03:21 2018 from 192.168.56.1
kuky_nekoi@Triage:~$ dig mx zimbra.io

; <<>> DiG 9.9.5-3ubuntu0.17-Ubuntu <<>> mx zimbra.io
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 13348
;; flags: qr aa rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; QUESTION SECTION:
;zimbra.io.                  IN      MX

;; ANSWER SECTION:
zimbra.io.                  0      IN      MX      0 zcs-886.zimbra.io.

;; ADDITIONAL SECTION:
zcs-886.zimbra.io.          0      IN      A      192.168.56.0

;; Query time: 4 msec
;; SERVER: 127.0.0.1#53(127.0.0.1)
;; WHEN: Fri Aug 17 01:07:25 -03 2018
;; MSG SIZE  rcvd: 76

kuky_nekoi@Triage:~$
```

La parte importante de esto es la sección **ANSWER**, la cual debe recibir exactamente los mismos datos que les configuramos en los pasos anteriores.

## Instalando Zimbra

Antes que todo, es necesario obtener una licencia. Una vez que se tenga esta, se nos entregará un archivo por correo y tendremos acceso a la descarga. Necesitamos integrar ambos elementos dentro de nuestro entorno para poder instalar Zimbra (hey, software libre no quiere decir que sea gratis!).



The screenshot shows the Zimbra Collaboration website. The top navigation bar includes links for Products, Downloads, Success Stories, Resources, Partners, Support, About Us, Contact Us, Buy, and Try. The main heading is "First time user?" with a "START FREE TRIAL" button. Below this is a note: "Note - Download will not work without a valid license key".

The "LATEST GA RELEASES stable" section highlights the "8.8.9 GA Release". It includes links for Release Notes, 3rd Party Open Source Licenses, and Windows Open Source Licenses. A paragraph states: "Zimbra Collaboration 8.8.9 Patch-2 has been issued on 3 August 2018. With 8.8.9 Patches, customers do not need to download any Zimbra Collaboration Patch builds. Patch packages can be installed by using Linux package management commands. Please refer to the release notes for Zimbra 8.8.9 Patch-2 installation on Redhat and Ubuntu platforms. Release Notes".

Below this, it states: "New Zimbra Talk V2 is available for purchase with this version. Zimbra Docs is now available at no additional cost. Zimbra Docs | MD5 | SHA256".

A table lists the download links for various platforms:

Platform	Download 64-bit
Red Hat Enterprise Linux 6	64bit x86 (MD5) (SHA 256)
CentOS 6	64bit x86 (MD5) (SHA 256)
Oracle Linux 6	64bit x86 (MD5) (SHA 256)
Red Hat Enterprise Linux 7	64bit x86 (MD5) (SHA 256)
CentOS 7	64bit x86 (MD5) (SHA 256)
Oracle Linux 7	64bit x86 (MD5) (SHA 256)
Ubuntu 14.04 LTS	64bit x86 (MD5) (SHA 256)
Ubuntu 16.04 LTS	64bit x86 (MD5) (SHA 256)

The bottom section of the screenshot shows the "CONTACT INFORMATION" form. The fields are filled with the following information:

- First Name: Erik
- Last Name: Regla
- Company: Universidad de Talca
- Business Email: eregla09@alumnos.ugal.cl
- Phone: +56962538739
- Country: Chile

The "DEPLOYMENT INFORMATION" section includes:

- Number of Mailboxes: 25 - 50
- Your existing solution today: Nothing / Don't Know
- Industry: Education
- Interest: Planning to invest in a new email system in

A checkbox is checked: "YES, I would like to receive email communications about Zimbra, so I may hear about product updates, upcoming promotions and discounts, and gain access to exclusive, invite-only events. For more information, please see our Privacy Policy which can be found at https://www.zimbra.com/legal/privacy/. I understand that I can unsubscribe at any time."

On the right side, there is a section titled "Why is Zimbra better than Microsoft, Google, OX ..." with a list of bullet points:

- Lowest TCO in the industry
- Secure, Private and Compliant by design
- Extensible through Zimlets, Rest API and more
- Access on any device, anywhere
- Worldwide leader of open source email
- Scales from 10 users to 40M users
- Run on-prem or in a public or private cloud
- Worldwide Partner Network to help you where you live and work

Below this is a section titled "Why Choose Zimbra Network Edition" with a list of bullet points:

- New Zimbra Talk V2, now available as an addition to Zimbra Network Edition!
- Now includes Zimbra Drive!
- Secure & Extensible (augmented with third-party security applications)
- Private (deployable in-country through ecosystem of hosting partners)
- Email and phone support plus 24/7 emergency service
- Real-time synchronization with ActiveSync
- Real-time backup and restore
- Advanced search and file indexing for large inboxes
- Built-in archiving and email compliance
- Advanced store management and HSM
- Web client rebranding
- Multi-tenancy
- Runs on Mac, Windows & Linux

Zimbra Sales

Zimbra License File For Universidad de Talca

To: eregla09@alumnos.ugal.cl

01:09

ZS

Thank you for downloading Zimbra Collaboration Network Edition Trial!

#### ----- ZIMBRA COLLABORATION DOWNLOAD LOCATION

IMPORTANT: Please keep this URL for your records if you wish to try another version of Zimbra Collaboration Network Edition:

[\[https://www.zimbra.com/downloads/zimbra-collaboration/\]](https://www.zimbra.com/downloads/zimbra-collaboration/)

#### ----- TRIAL ACTIVATION

A Zimbra trial license is required in order to create accounts on the Zimbra Collaboration Network Edition. You cannot install Zimbra Collaboration Network Edition without a license.

BEFORE you start the installation, please save the attached license file onto the computer where you plan on running Zimbra Collaboration Network Edition. During the installation process, you will be asked to specify the directory location of the file.

Sorry, but you will have to start over if you do not have the file!

BONUS: The attached license also enables you to New Zimbra Talk V2 trial for 50 users.

#### ----- GETTING OUTLOOK CONNECTOR

Zimbra Connector for Microsoft Outlook can be found on your Zimbra server once it is installed.

Zimbra downloads URL is... (Friendly Note: please replace "yourservername" and "yourdomain" with your actual server name and domain):

[\[https://yourservername.yourdomain.com/zimbra/downloads/index.html\]](https://yourservername.yourdomain.com/zimbra/downloads/index.html)

#### ----- ZIMBRA DESKTOP DOWNLOAD LOCATION

Zimbra Desktop allows you to sync your Zimbra mailbox even while offline, and it's compatible with Mac OS X, Linux and Windows for 32bits and 64bits.

Zimbra Desktop is the perfect match to Zimbra Web Client.

[\[https://www.zimbra.com/downloads/zimbra-desktop/\]](https://www.zimbra.com/downloads/zimbra-desktop/)

#### ----- FEEDBACK

We appreciate your insights and feedback about this release and hope you???ll share your thoughts by joining Zimbra Community Forums:

[\[https://forums.zimbra.org/\]](https://forums.zimbra.org/)

#### ----- MORE INFO

If you need technical resources about installation, configuration or administration, we???re here to help! Please visit our website:

[\[https://www.zimbra.com/documentation/\]](https://www.zimbra.com/documentation/)

We want to make sure you have everything you need! If you have any questions about Zimbra Network Edition, including licensing information, please



```
kuky_nekoi@Triage:~$ wget https://files.zimbra.com/downloads/8.8.9_GA/zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917.tgz
--2018-08-17 01:11:51-- https://files.zimbra.com/downloads/8.8.9_GA/zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917.tgz
Resolving files.zimbra.com (files.zimbra.com)... 13.33.133.213
Connecting to files.zimbra.com (files.zimbra.com)|13.33.133.213|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 369145956 (352M) [binary/octet-stream]
Saving to: 'zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917.tgz'

100%[=====>] 369,145,956 12.4MB/s   in 34s

2018-08-17 01:12:26 (10.4 MB/s) - 'zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917.tgz' saved [369145956/369145956]

kuky_nekoi@Triage:~$ tar xzvf zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917.tgz
zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917/
zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917/.BUILD_TIME_STAMP
zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917/.BUILD_RELEASE_NO
zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917/data/
```

```
× ~ (zsh) %1 × kuky_nekoi@Triage... %2 × ~/Desktop (zsh) ● %3
× kuky_nekoi@Triage: ~/zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917 (ssh)
* Restarting DNS forwarder and DHCP server dnsmasq [ OK ]
kuky_nekoi@Triage:~$ ping 192.168.0.10
PING 192.168.0.10 (192.168.0.10) 56(84) bytes of data.
64 bytes from 192.168.0.10: icmp_seq=1 ttl=63 time=0.494 ms
^C
--- 192.168.0.10 ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 0.494/0.494/0.494/0.000 ms
kuky_nekoi@Triage:~$ cd
.cache/ zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917/
kuky_nekoi@Triage:~$ cd
.cache/ zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917/
kuky_nekoi@Triage:~$ cd zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917/
kuky_nekoi@Triage:~/zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917$ wget http://192.168.0.10:8080/ZCSLicense.xml
--2018-08-17 01:17:13-- http://192.168.0.10:8080/ZCSLicense.xml
Connecting to 192.168.0.10:8080... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1986 (1.9K) [application/xml]
Saving to: 'ZCSLicense.xml'

100%[=====] 1,986 --.-K/s in 0s

2018-08-17 01:17:13 (254 MB/s) - 'ZCSLicense.xml' saved [1986/1986]

kuky_nekoi@Triage:~/zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917$ 
× kuky_nekoi@Triage: ~/zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917
kuky_nekoi@Triage:~/zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917$ ./install.sh -l ZCSLicense.xml
```

Luego de dar paso a la instalación de Zimbra, comienza la autoconfiguración de los servicios.

```
kuky_nekoi@Triage:~/zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64.20180703080917$ sudo ./install.sh -l ZCSLicense.xml
[sudo] password for kuky_nekoi:

Operations logged to /tmp/install.log.KfKEqtg3
Checking for existing installation...
  zimbra-drive...NOT FOUND
  zimbra-imapd...NOT FOUND
  zimbra-patch...NOT FOUND
  zimbra-license-tools...NOT FOUND
  zimbra-license-extension...NOT FOUND
  zimbra-network-store...NOT FOUND
  zimbra-network-modules-ng...NOT FOUND
  zimbra-chat...NOT FOUND
  zimbra-talk...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
  zimbra-apache...NOT FOUND
  zimbra-spell...NOT FOUND
  zimbra-convertd...NOT FOUND
  zimbra-memcached...NOT FOUND
  zimbra-proxy...NOT FOUND
  zimbra-archiving...NOT FOUND
```

En nuestro caso falló porque nos equivocamos al setear el archivo hosts.

```
GNU nano 2.2.6 File: /etc/hosts Modified

127.0.0.1    localhost
127.0.1.1    Triage

192.168.56.20  zcs-886.zimbra.io  zcs-886

# The following lines are desirable for IPv6 capable hosts
::1    localhost ip6-localhost ip6-loopback
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters

[ Read 9 lines ]
^G Get Help  ^O WriteOut  ^R Read File  ^Y Prev Page  ^K Cut Text  ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is   ^V Next Page  ^U UnCut Text ^T To Spell
```

Luego de esto, reiniciamos y luego de preguntarnos por las licencias, términos y condiciones y otras cosas comenzamos la instalación. Cuando pregunte si queremos usar los repositorios propios le indicamos que no, porque simplemente no tenemos ninguno.

```
###WARNING###

One or more suggested packages for zimbra-store are missing.
Some features may be disabled due to the missing package(s).

Installing:
  zimbra-core
  zimbra-ldap
  zimbra-logger
  zimbra-mta
  zimbra-snmpp
  zimbra-store
  zimbra-apache
  zimbra-spell
  zimbra-convertd
  zimbra-memcached
  zimbra-proxy
  zimbra-drive
  zimbra-patch
  zimbra-license-tools
  zimbra-license-extension
  zimbra-network-store
  zimbra-talk
  zimbra-network-modules-ng

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

Acá no instalamos todos los paquetes, ya que hay algunos que son de carácter experimental como el cacheado de la DNS pero no lo tomamos en cuenta.

Luego de instalar los paquetes, nos preguntará si queremos cambiar la configuración del DNS. Claro, nos falta el registro MX por lo que no podemos hacer mucho. Le damos que si y continuamos.

```
zimbra-license-tools
zimbra-license-extension
zimbra-network-store
zimbra-convertd
zimbra-proxy
zimbra-network-modules-ng
...done

Installing extra packages (3):
zimbra-drive
zimbra-patch
zimbra-talk
...done

Running Post Installation Configuration:
Installing /opt/zimbra/conf/ZCSLicense.xml
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
    LANGUAGE = "en_GB:en",
    LC_ALL = (unset),
    LC_CTYPE = "UTF-8",
    LANG = "en_GB.UTF-8"
are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").
Operations logged to /tmp/zmsetup.20180817-014133.log
Installing LDAP configuration database...done.
Setting defaults...perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
    LANGUAGE = "en_GB:en",
    LC_ALL = (unset),
    LC_CTYPE = "UTF-8",
    LANG = "en_GB.UTF-8"
are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").

DNS ERROR resolving MX for zcs-886.zimbra.io
It is suggested that the domain name have an MX record configured in DNS
Change domain name? [Yes] █
```

```
DNS ERROR resolving MX for zcs-886.zimbra.io
It is suggested that the domain name have an MX record configured in DNS
Change domain name? [Yes] Y
Create domain: [zcs-886.zimbra.io] zimbra.io
    MX: zcs-886.zimbra.io (192.168.56.20)

    Interface: 10.0.2.15
    Interface: 192.168.56.20
    Interface: 127.0.0.1
    Interface: ::1

done.
Checking for port conflicts
```

Luego tenemos que entrar a configurar la contraseña de administrador. Aca se puede utilizar los comandos 6 y 4, para ingresar una contraseña nueva de administrador.

## Main menu

- 1) Common Configuration:
- 2) zimbra-ldap: Enabled
- 3) zimbra-logger: Enabled
- 4) zimbra-mta: Enabled
- 5) zimbra-snmp: Enabled
- 6) zimbra-store: Disabled
- 7) zimbra-spell: Enabled
- 8) zimbra-convertd: Enabled
- 9) zimbra-proxy: Enabled
- 10) Default Class of Service Configuration:
- 11) 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) █

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

Password for admin@zimbra.io (min 6 characters): [gzeKhSb6g] redes

Minimum length of 6 characters!

Password for admin@zimbra.io (min 6 characters): [gzeKhSb6g] redesredes

## Store configuration

- 1) Status: Enabled
- 2) Create Admin User: yes
- 3) Admin user to create: admin@zimbra.io
- 4) Admin Password: set
- 5) Anti-virus quarantine user: virus-quarantine.thkmauwbw\_@zimbra.io
- 6) Enable automated spam training: yes
- 7) Spam training user: spam.wimv\_0a2j@zimbra.io
- 8) Non-spam(Ham) training user: ham.urdxch3j@zimbra.io
- 9) SMTP host: zcs-886.zimbra.io
- 10) Web server HTTP port: 8080
- 11) Web server HTTPS port: 8443
- 12) Web server mode: https
- 13) IMAP server port: 7143
- 14) IMAP server SSL port: 7993
- 15) POP server port: 7110
- 16) POP server SSL port: 7995
- 17) Use spell check server: yes
- 18) Spell server URL: http://zcs-886.zimbra.io:7780/aspell.php
- 19) Enable version update checks: TRUE
- 20) Enable version update notifications: TRUE
- 21) Version update notification email: admin@zimbra.io
- 22) Version update source email: admin@zimbra.io
- 23) Install mailstore (service webapp): yes
- 24) Install UI (zimbra,zimbraAdmin webapps): yes

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



## Main menu

- 1) Common Configuration:
- 2) zimbra-ldap: Enabled
- 3) zimbra-logger: Enabled
- 4) zimbra-mta: Enabled
- 5) zimbra-snmp: Enabled
- 6) zimbra-store: Enabled
- 7) zimbra-spell: Enabled
- 8) zimbra-convertd: Enabled
- 9) zimbra-proxy: Enabled
- 10) Default Class of Service Configuration:
- 11) 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) █

24) Install UI (zimbra,zimbraAdmin webapps): yes

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

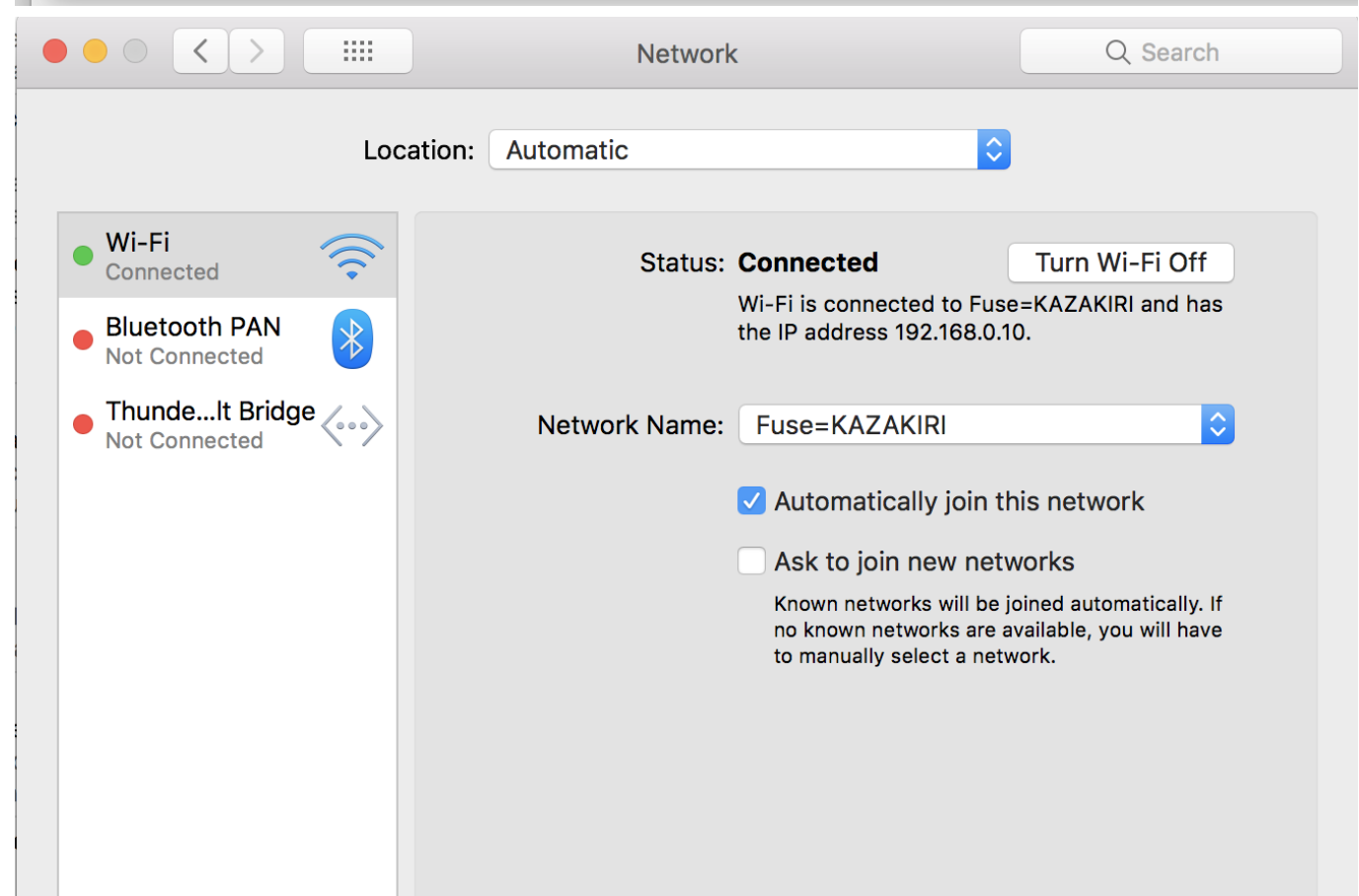
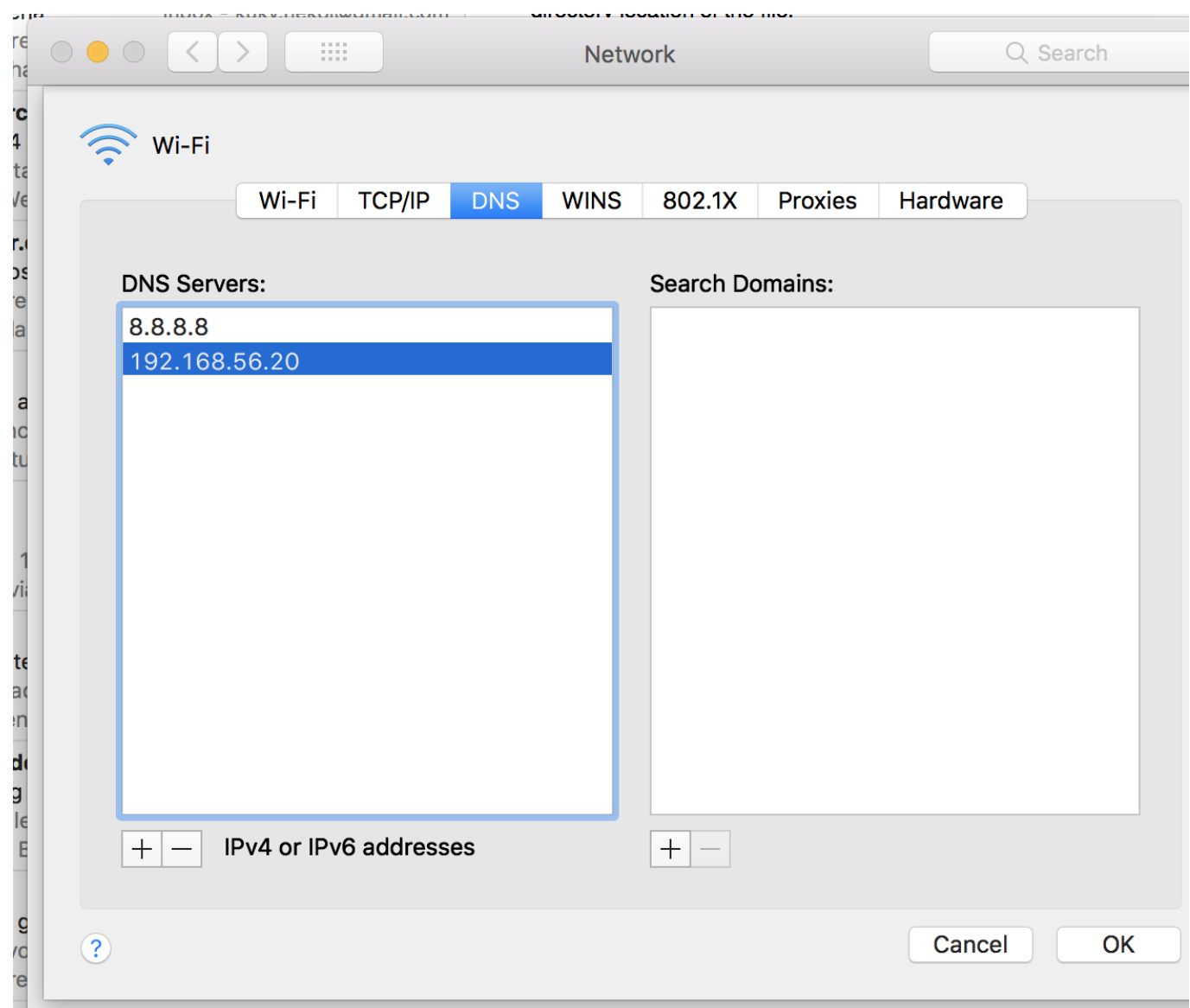
## Main menu

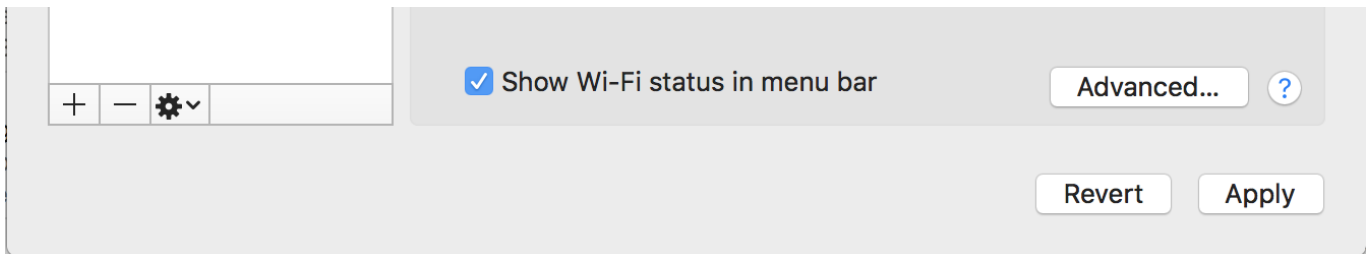
- 1) Common Configuration:
- 2) zimbra-ldap: Enabled
- 3) zimbra-logger: Enabled
- 4) zimbra-mta: Enabled
- 5) zimbra-snmp: Enabled
- 6) zimbra-store: Enabled
- 7) zimbra-spell: Enabled
- 8) zimbra-convertd: Enabled
- 9) zimbra-proxy: Enabled
- 10) Default Class of Service Configuration:
- 11) Enable 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.14073]  
Saving config in /opt/zimbra/config.14073...done.  
The system will be modified - continue? [No] yes █

```

email_server_install.sh • informe.md • laboratorio_8.sh • ~ (zsh) #1 x kuky_nekol@Triage... #2 x ~/Desktop (zsh) #3
> Informe.md > ...
16
17 ## DNSMASQ
18 Se instala 'dnsmasq' utilizando el siguiente comando
19
20 ```bash
21 apt-get install dnsmasq
22 ```
23
24 En este caso falló porque accidentalmente instalamos
25 'bind9' para hacer de servidor DNS. Por lo mismo es
26 removido.
27
28 Y ahora funciona.
29
30 Luego se agregan las entradas en dnsmasq y se reinicia el
31 servicio
32
33 ## Testing
34
35 ## Instalando Zimbra Network
36 Bajamos el archivo luego de obtener una licencia y
37 procedemos a instalar Zimbra
38
39 No olvidar agregar el hostname.
40
41 Luego preguntará si queremos utilizar el paquete de
42 repositorios de ellos, a lo cual le damos que si (ya que
43 no tenemos repo).
44
45 Instalamos todo menos dnscache y imapd beta.
46
47 Luego de eso, nos pedirá que cambiemos el dominio... Y le
48 decimos que si.
49
50 En eso, llegamos al menu de configuración y para eso
51 usamos las opciones 6, 1, 4 para cambiar la contraseña de
52 admin (esto está mal en la guía oficial).
53
54 Finalmente, guardamos los cambios y comenzamos los cambios
55 al sistema.
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## Testing, todo falla

Si intentamos abrir el sitio, nos llevaremos una sorpresa porque el servidor DNS no funciona y ni siquiera podremos entrar por nuestra IP.

Esto es porque

1. No tenemos abierto el firewall
2. No tenemos declarado de **dnsmasq** escuche a otros lugares por su nombre.

Para solucionar lo primero, cambiamos la configuración de **ufw** y le agregamos el servicio Zimbra para que esté abierto.

```

root@Triage: ~
GNU nano 2.2.6 File: /etc/ufw/applications.d/zimbra

[Zimbra]

title=Zimbra Collaboration Server

description=Open source server for email, contacts, calendar, and more.

ports=25,80,110,143,443,465,587,993,995,3443,5222,5223,7071,9071/tcp

^G Get Help      ^O WriteOut      ^R Read File     ^Y Prev Page     ^K Cut Text
^X Exit          ^J Justify       ^W Where Is      ^V Next Page     ^U UnCut Text

root@Triage:~# ufw
ERROR: not enough args
root@Triage:~# ufw allow 192.168.56.0/24
ERROR: Bad port
root@Triage:~# ufw allow from 192.168.56.0/24
Rules updated
root@Triage:~# nano /etc/ufw/applications.d/zimbra
root@Triage:~# ufw allow Zimbra
Rules updated
Rules updated (v6)
root@Triage:~# ufw enable
Command may disrupt existing ssh connections. Proceed with operation (y|n)? y
Aborted
root@Triage:~#

```

```
ERROR: Bad port
root@Triage:~# ufw allow from 192.168.56.0/24
Rules updated
root@Triage:~# nano /etc/ufw/applications.d/zimbra
root@Triage:~# ufw allow Zimbra
Rules updated
Rules updated (v6)
root@Triage:~# ufw enable
Command may disrupt existing ssh connections. Proceed with operation (y|n)? y
Aborted
root@Triage:~# ufw enable
Command may disrupt existing ssh connections. Proceed with operation (y|n)? Y
Firewall is active and enabled on system startup
root@Triage:~#
```

Pero tampoco va a funcionar nuestro DNS ya que aún tenemos bloqueado el puerto 53.

```
→ Desktop telnet 192.168.56.20 53
Trying 192.168.56.20...
Connected to 192.168.56.20.
Escape character is '^]'.
Connection closed by foreign host.
```

```
GNU nano 2.2.6 File: /etc/ufw/applications.d/zimbra

[Zimbra]

title=Zimbra Collaboration Server

description=Open source server for email, contacts, calendar, and more.

ports=25,53,80,110,143,443,465,587,993,995,3443,5222,5223,7071,9071/tcp

[ Wrote 7 lines ]

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^X Exit          ^J Justify       ^W Where Is      ^V Next Page     ^U UnCut Text    ^T To Spell
```

Luego de esto tenemos que verificar la configuración de **dnsmasq** la cual claramente está mal y cambiarla por una que esté bien configurada con el **listen-address**.

```
kuky_nekoi@Triage: ~/zcs-NETWORK-8.8.9_GA_2055.UBUNTU14_64
GNU nano 2.2.6 File: /etc/dnsmasq.conf

# Configuration file for dnsmasq.
#
# Format is one option per line, legal options are the same
# as the long options legal on the command line. See
# "/usr/sbin/dnsmasq --help" or "man 8 dnsmasq" for details.
server=8.8.8.8
listen-address=127.0.0.1
domain=zimbra.io
mx-host=zimbra.io,zcs-886.zimbra.io,0
address=/zcs-886.zimbra.io/192.168.56.20
# Listen on this specific port instead of the standard
# (53). Setting this to zero completely disables DNS function,
# leaving only DHCP and/or TFTP.
#port=5353
```

```
1. root@Triage: ~ (ssh)
GNU nano 2.2.6 File: /etc/dnsmasq.conf
Audio
## Configuration file for dnsmasq.
#
# Format is one option per line, legal options are the same
# as the long options legal on the command line. See
# "/usr/sbin/dnsmasq --help" or "man 8 dnsmasq" for details.
server=8.8.8.8
listen-address=127.0.0.1
listen-address=192.168.56.20
domain=zimbra.io
mx-host=zimbra.io,zcs-886.zimbra.io,0
address=/zcs-886.zimbra.io/192.168.56.20
# Listen on this specific port instead of the standard DNS port
# (53). Setting this to zero completely disables DNS function,
# leaving only DHCP and/or TFTP.
#port=5353
```

Y ahora nuestras queries desde otros equipos podrán funcionar bien.



```

~ (zsh)  %1  × kuky_nekoi@Tri...  %2  × ~/Desktop (zsh)  %3
× http-server (node)
http://192.168.56.1:8080
Hit CTRL-C to stop the server
[Fri Aug 17 2018 01:16:49 GMT-0300 (-03)] "GET /ZCSLicence.xml" "Wget/1.19.5 (darwin17.5.0)"
[Fri Aug 17 2018 01:16:49 GMT-0300 (-03)] "GET /ZCSLicence.xml" Error (404): "Not found"
[Fri Aug 17 2018 01:16:58 GMT-0300 (-03)] "GET /" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_6) AppleWebKit/537.36 (KHTML, li
Chrome/68.0.3440.106 Safari/537.36"
[Fri Aug 17 2018 01:16:58 GMT-0300 (-03)] "GET /favicon.ico" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_6) AppleWebKit/537.36
ike Gecko) Chrome/68.0.3440.106 Safari/537.36"
[Fri Aug 17 2018 01:16:58 GMT-0300 (-03)] "GET /favicon.ico" Error (404): "Not found"
[Fri Aug 17 2018 01:17:04 GMT-0300 (-03)] "GET /ZCSLicense.xml" "Wget/1.19.5 (darwin17.5.0)"
[Fri Aug 17 2018 01:17:13 GMT-0300 (-03)] "GET /ZCSLicense.xml" "Wget/1.15 (linux-gnu)"
[]

× ~/Desktop
Last login: Fri Aug 17 02:27:12 on ttys007
d^[[A
→ Desktop telnet 192.168.56.20 53
→ Desktop dig zcs-886.zimbra.io 192.168.56.20

; <<>> DiG 9.10.6 <<>> zcs-886.zimbra.io 192.168.56.20
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 50801
;; flags: qr aa rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 0

;; QUESTION SECTION:
;zcs-886.zimbra.io.          IN      A

;; ANSWER SECTION:
zcs-886.zimbra.io.         0       IN      A      192.168.56.20

;; Query time: 0 msec
;; SERVER: 192.168.56.20#53(192.168.56.20)
;; WHEN: Fri Aug 17 02:32:12 -03 2018
;; MSG SIZE rcvd: 51

;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 47513
;; flags: qr aa rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 0

;; QUESTION SECTION:
;192.168.56.20.             IN      A

;; ANSWER SECTION:
192.168.56.20.             0       IN      A      192.168.56.20

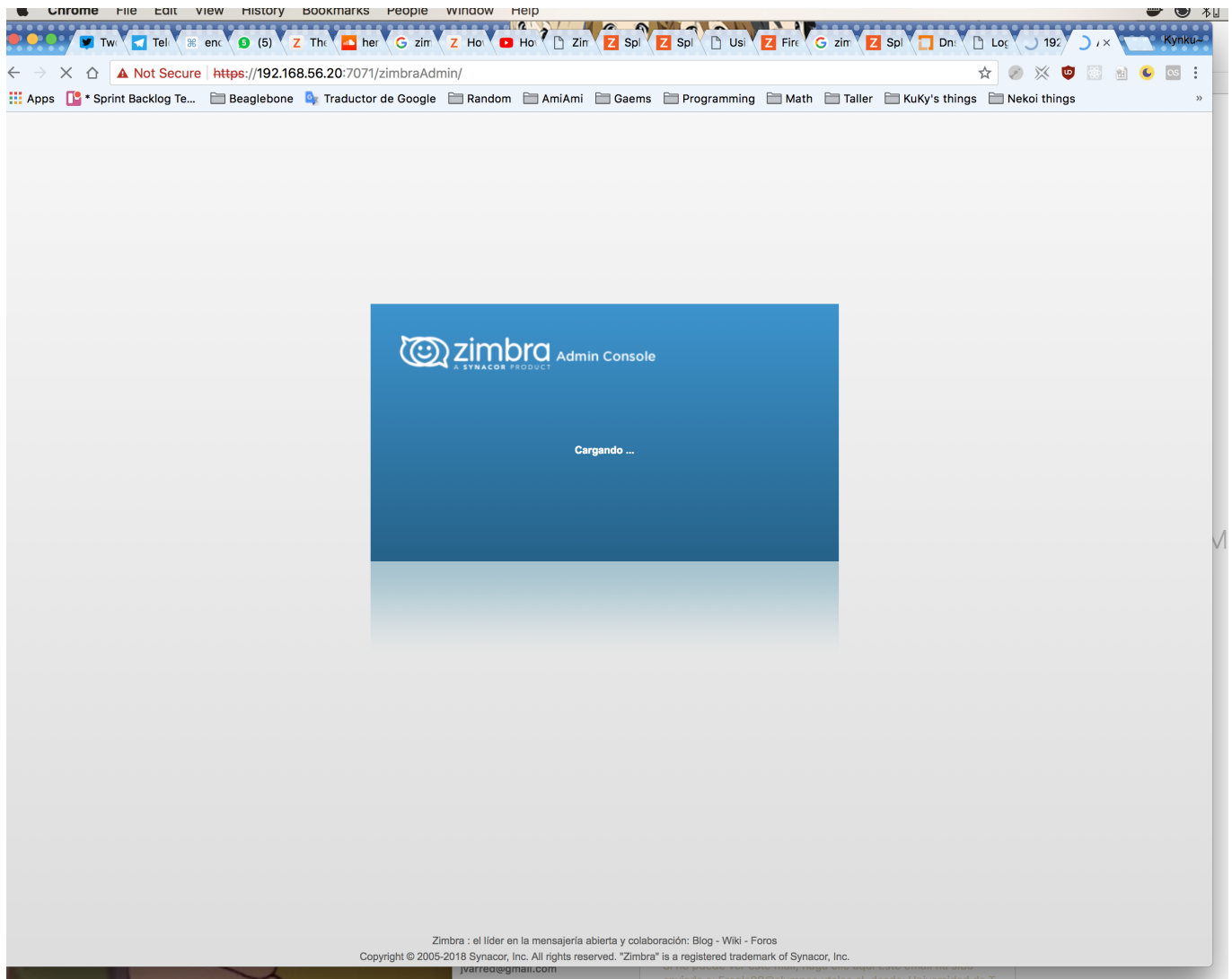
;; Query time: 0 msec
;; SERVER: 192.168.56.20#53(192.168.56.20)
;; WHEN: Fri Aug 17 02:32:12 -03 2018
;; MSG SIZE rcvd: 47

→ Desktop []

```

Usando!

Luego de esto, Zimbra está listo para ser usado, con todos sus servicios.



## Undelivered Mail Returned to Sender

1 mensaje



De: "Mail Delivery System" &lt;MAILER-DAEMON@zcs-886.zimbra.io&gt;

17 de Agosto de 2018 02:48

Para: admin@zimbra.io

 dfasdfsadf (2 KB)

This is the mail system at host zcs-886.zimbra.io.

I'm sorry to have to inform you that your message could not be delivered to one or more recipients. It's attached below.

For further assistance, please send mail to postmaster.

If you **do** so, please include this problem report. You can delete your own text from the attached returned message.

The mail system

```
<eregla09@alumnos.utalca.cl>: host
  alumnos-utalca-cl.mail.eo.outlook.com[207.46.163.106] said: 550
5.7.1
  Service unavailable, Client host [201.214.87.216] blocked using
Spamhaus.
  To request removal from this list see
http://www.spamhaus.org/lookup.lasso
  (AS16012612) (in reply to RCPT TO command)
```

Responder - Responder a todos - Reenviar - Más acciones

Ordenado por Fecha 47 conversaciones

Undelivered Mail Returned to Sender 1 mensaje

De: "Mail Delivery System" <MAILER-DAEMON@zcs-886.zimbra.io> 17 de Agosto de 2018 02:48

Para: admin@zimbra.io

dfasdfsadf (2 KB)

This is the mail system at host zcs-886.zimbra.io.

I'm sorry to have to inform you that your message could not be delivered to one or more recipients. It's attached below.

For further assistance, please send mail to postmaster.

If you do so, please include this problem report. You can delete your own text from the attached returned message.

The mail system

<eregla09@alumnos.usalca.cl>: host alumnos-usalca-cl.mail.eo.outlook.com[207.46.163.106] said: 550 5.7.1 Service unavailable, Client host [201.214.87.216] blocked using Spamhaus. To request removal from this list see <http://www.spamhaus.org/lookup.lasso> (AS16012612) (in reply to RCPT TO command)

Agosto de 2018

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Pero los problemas continúan, ya que no se puede enviar correo de manera directa.

Para esto es necesario tener un relay, y para esto usaremos google basado en esta guía

[https://wiki.zimbra.com/wiki/Outgoing\\_SMTP\\_Authentication](https://wiki.zimbra.com/wiki/Outgoing_SMTP_Authentication)

Sin embargo, el relay es harina de otro costal.