# Zimbra Class One - Server OS Setup & Primary DNS configure

**Server ip = 202.191.120.55**
**user = root**
**password = Zimbra786@##**

**Old Kernel removed from server using  installonly_limit=5**

# vim /etc/yum.conf

[main]
cachedir=/var/cache/yum/$basearch/$releasever
keepcache=0
debuglevel=2
logfile=/var/log/yum.log
exactarch=1
obsoletes=1
gpgcheck=1
plugins=1
installonly_limit=3
bugtracker_url=http://bugs.centos.org/set_project.php?project_id=23&ref=http://bugs.centos.org/bug_report_page.php?category=yum
distroverpkg=centos-release

# rpm -q kernel

```
kernel-3.10.0-327.36.3.el7.x86_64
kernel-3.10.0-514.2.2.el7.x86_64
kernel-3.10.0-693.5.2.el7.x86_64
```
# mentally remove kernel from server
```
# package-cleanup --oldkernels --count=3
```

## # Manually Select Kernel or Old Kernel ### set GRUB_DEFAULT=2
```
for old kernel

# vim /etc/default/grub
GRUB_TIMEOUT=5
GRUB_DISTRIBUTOR="$(sed 's, release .*$,,g' /etc/system-release)"
```
**#GRUB_DEFAULT=saved**
**GRUB_DEFAULT=2**
```
GRUB_DISABLE_SUBMENU=true
GRUB_TERMINAL_OUTPUT="console"
```

```
GRUB_CMDLINE_LINUX="crashkernel=auto rhgb quiet"
GRUB_DISABLE_RECOVERY="true"
# rebuild previous kernel
# sudo grub2-mkconfig -o /boot/grub2/grub.cfg
~
# reboot
# uname -a
```

## Zimbra  Class one - Primary DNS Configure with Postfix Basic

### 1.Set Server Hostname
# vim /etc/hosts

127.0.0.1   localhost.localdomain localhost
202.191.120.55  mail.zimbraexpert.com    mail ns1

# vim /etc/hostname

mail.zimbraexpert.com

### 2. Disable Firewall

# vim /etc/selinux/config

SELINUX=disabled

# systemctl disable firewalld.service

# reboot

# yum install epel-release -y

### 3. Primary DNS Configure Start

# yum install bind -y

# vim /etc/named.conf

listen-on port 53 { 127.0.0.1; 202.191.120.55; };

zone "." IN {
      type hint;
      file "named.ca";
};
Forward Zone add here
======================
zone"zimbraexpert.com" IN {

```
type master;
file "zimbraexpert.com";
allow-update { none; };
};

zone"120.191.202.in-addr.arpa" IN {
type master;
file "120.191.202.in-addr.arpa";
allow-update { none; };
};

include "/etc/named.rfc1912.zones";
include "/etc/named.root.key";
```

## 4. Create Forward Zone File

```
# vim /var/named/zimbraexpert.com
$TTL 3600
@ IN SOA ns1.zimbraexpert.com.        root.ns1.zimbraexpert.com. (
          2020090101     ; Serial
          10800          ; Refresh after 15 hours
          3600           ; Retry after 1 hour
          604800         ; Expire after 1 Week
          86400 )        ; Minimum TTL of 1 day

          IN NS ns1.zimbraexpert.com.
          IN NS ns2.zimbraexpert.com.

@          IN    MX    10      mail.zimbraexpert.com.

@          IN    A     202.191.120.55
www        IN    A     202.191.120.55
mail       IN    A     202.191.120.55
ns1        IN    A     202.191.120.55
ns2        IN    A     202.191.120.56
```

## ## Save the file

**Zone test**

**# named-checkzone zimbraexpert.com /var/named/ zimbraexpert.com**

## 5. Create Reverse Zone File

# vim /var/named/120.191.202.in-addr.arpa

```
$TTL 3600
@  IN  SOA    ns1.zimbraexpert.com. root.zimbraexpert.com. (
    2019101001  ;Serial
    3600       ;Refresh
    1800       ;Retry
    604800     ;Expire
    86400      ;Minimum TTL
)
@     IN  NS    ns1.zimbraexpert.com.
@     IN  NS    ns2.zimbraexpert.com.

ns1   IN  A   202.191.120.55
ns2   IN  A   202.191.120.56

55    IN  PTR     mail.zimbraexpert.com.
```

## Save the file

Test Zone File
# named-checkzone zimbraexpert.com /var/named/122.191.202.in-addr.arpa

## 6. Check MX entry from nslookup Tools

# nslookup
> set q=mx
>  zimbraexpert.com

**Shown**
zimbraexpert.com   mail exchanger = 10 mail.zimbraexpert.com

Online Tools
================
https://mxtoolbox.com

https://linuxhelpbd.blogspot.com/2015/04/how-to-setup-dns-server-in-centos-6.5-step-by-step.html

## VIM editor Key Word Line Replace

:%s/example.com/zimbraexpert.com/g

https://dnspropagation.net

--

# Zimbra Class Two - Primary & Secondary DNS - DNS Security details

**Secondary DNS**
**Server IP = 202.191.120.56**
**user = root**
**Password = Zimbra786@##**

Dns Help site
http://linuxhelpbd.blogspot.com/2015/04/how-to-setup-dns-server-in-centos-6.5-step-by-step.html

**1. host name & ip set=**
Domain : zimbraexpert.com
mx entry check  tools http://mxtoolbox.com

**# vim /etc/hosts**

127.0.0.1   localhost.localdomain localhost
202.191.120.56 mailb.zimbraexpert.com.com     mailb ns2

**# vim /etc/hostname**

mailb.zimbraexpert.com.com

**2. firewall# vim /etc/selinux/config**

SELINUX=disabled
# systemctl disable firewalld.service
Removed symlink /etc/systemd/system/multi-user.target.wants/firewalld.service.
Removed symlink /etc/systemd/system/dbus-org.fedoraproject.FirewallD1.service.

[root@localhost ~]# chkconfig firewalld off
Note: Forwarding request to 'systemctl disable firewalld.service'.
Removed symlink /etc/systemd/system/dbus-org.fedoraproject.FirewallD1.service.
Removed symlink /etc/systemd/system/basic.target.wants/firewalld.service.


# yum install epel-release -y

```
# yum update -y
# reboot

# yum install bind -y
```

**# Goto primary dns add this line into /etc/named.conf**
```
# allow-transfer{ localhost; 202.191.120.56; };                ## Slave DNS IP ##
```

Back To Secondary DNS server

```
# vim /etc/named.conf

options {
        listen-on port 53 { 127.0.0.1; 202.191.120.56; };
        listen-on-v6 port 53 { ::1; };
        directory       "/var/named";
        dump-file       "/var/named/data/cache_dump.db";
        statistics-file "/var/named/data/named_stats.txt";
        memstatistics-file "/var/named/data/named_mem_stats.txt";
        allow-query     { localhost; any; };

zone "." IN {
        type hint;
        file "named.ca";
};
zone"zimbraexpert.com" IN {
type slave;
file "slaves/zimbraexpert.com";
masters { 202.191.120.55; };
};

zone"120.191.202.in-addr.arpa" IN {
type slave;
file "slaves/120.191.202.in-addr.arpa";
masters { 202.191.120.55; };
};

include "/etc/named.rfc1912.zones";
include "/etc/named.root.key";
#
# named-checkconf /etc/named.conf

# save

# service named restart
```

```
# cd /var/named/slaves/
# ll


#

DNS Security
Primary & Secondary Same
===================
#  cat /etc/rndc.key

key "rndc-key" {
    algorithm hmac-sha256;
    secret "JT+RTwmiKr1cve/dHuW32oRHBkPXTR6d2hV6tRgkzYk=";
};

# vim /etc/named.conf

key "rndc-key" {
    algorithm hmac-sha256;
    secret "JT+RTwmiKr1cve/dHuW32oRHBkPXTR6d2hV6tRgkzYk=";
};

controls {
    inet 127.0.0.1 allow { 127.0.0.1; } keys { "rndc-key"; };
    inet 202.191.120.55 allow { 202.191.120.0/24; } keys { "rndc-key"; };
};
server 202.191.120.55 {
keys { rndc-key; };
};
# under the options
    allow-query     { localhost; any; };
    recursion yes;

    allow-recursion {localhost; 192.168.101.0/24; 202.191.120.0/24; };
    allow-recursion-on {localhost; 192.168.101.0/24; 202.191.120.0/24;  };

# service named restart
```

-- DNS entry Check & Progress
https://intodns.com  https://dnschecker.org


6. Check MX entry from nslookup Tools

```
# nslookup
```

> set q=mx
> zimbraexpert.com

Shown
zimbraexpert.com    mail exchanger = 10 mail.zimbraexpert.com
--
**IP & DNS Details information check**
https://ipinfo.io/216.239.34.10
https://intodns.com/zimbraexpert.com

-- # curl ipinfo.io/ip

SPF creator site
============
easySPF Wizard: create Sender Policy Framework records for your domains

## SPF dns entry on Primary DNS
# vim /var/named/zimbraexpert.com
@       IN TXT     "v=spf1 +mx +ip4:202.191.120.55 +include:_spf.google.com ~all"

# service named restart

## Forwarding zone sample
======================
[root@mail named]# cat zimbraexpert.com
$TTL 86400
@   IN  SOA     ns1.zimbraexpert.com. root.zimbraexpert.com. (
        2011071004  ;Serial
        3600        ;Refresh
        1800        ;Retry
        604800      ;Expire
        86400       ;Minimum TTL
)

@       IN  NS      ns1.zimbraexpert.com.
@       IN  NS      ns2.zimbraexpert.com.


ns1    IN  A   202.191.120.55
ns2    IN  A   202.191.120.56

@       IN TXT "v=spf1 +a +ip4:202.191.120.55
+mx:smtp.bijoy.net +include:_spf.google.com ~all"


zimbraexpert.com.       MX 10   mail.zimbraexpert.com.

```
@      IN  A   202.191.120.55
www    IN  A   202.191.120.55
mail   IN  A   202.191.120.55
ftp    IN  A   103.14.10.23
```

# Zimbra Class Three Postfix Mail Server Configure with Dovecot SquirrelMail

**Postfix  Server**
**Server IP = 202.191.120.55**
**user = root**
**Password = Zimbra786@##**

**Postfix Mail Server Configure with Dovecot SquirrelMail**
https://linuxhelpbd.blogspot.com/2015/04/how-to-configure-postfix-dovecot-and-squirrelmail-in-centos-6.5.html

## 1. Check MX entry from nslookup Tools
Network Tools: DNS,IP,Email (mxtoolbox.com)

# nslookup
> set q=mx
> zimbraexpert.com

Shown
zimbraexpert.com   mail exchanger = 10 mail.zimbraexpert.com

## 2. Postfix Mail Server Configuration Section

# yum install postfix -y
# cp /etc/postfix/main.cf /etc/postfix/main.cfbak

Edit /etc/postfix/main.cf,

# vim /etc/postfix/main.cf

## Line no 75 - Uncomment and set your mail mail FQDN ##
myhostname = mail.zimbraexpert.com

## Line 83 - Uncomment and Set domain name ##
mydomain = zimbraexpert.com

## Line 99 - Uncomment ##
myorigin = $mydomain

## Line 116 - Set ipv4 ##

inet_interfaces = all

## Line 119 - Change to all ##
inet_protocols = all

## Line 164 - Comment ##
#mydestination = $myhostname, localhost.$mydomain, localhost,

## Line 165 - Uncomment ##
mydestination = $myhostname, localhost.$mydomain, localhost, $mydomain

## Line 264 - Uncomment and add IP range ##
mynetworks = 202.191.120.0/24, 127.0.0.0/8

## Line 419 - Uncomment ##
home_mailbox = Maildir/

smtpd_banner = $myhostname ESMTP $mail_name

# save

# systemctl restart postfix
# systemctl enable postfix
--
# adduser kamal
# adduser karim

# su kamal
$ mail -v karim@zimbraexpert.com
suject: test
this is test mail
. = exit

# tail -f /var/log/maillog


## 3. Configuring Dovecot

   # yum install dovecot -y

   Edit the file /etc/dovecot/dovecot.conf file,

# vim /etc/dovecot/dovecot.conf

Uncomment the following line:

## Line 20 - umcomment ##
protocols = imap pop3 lmtp

Edit file /etc/dovecot/conf.d/10-mail.conf file

# vim /etc/dovecot/conf.d/10-mail.conf

Make the changes as shown below:

## Line 24 - uncomment ##
mail_location = maildir:~/Maildir

Edit /etc/dovecot/conf.d/10-auth.conf

# vim /etc/dovecot/conf.d/10-auth.conf

And make the changes as shown below:

## line 9 - uncomment##
disable_plaintext_auth = no

## Line 97 - Add a letter "login" ##
auth_mechanisms = plain login

Edit file /etc/dovecot/conf.d/10-master.conf,
# vim /etc/dovecot/conf.d/10-master.conf

Make changes as shown below:


## Line 89 - Uncomment # and add "postfix"

  #mode = 0640
  user = postfix
  group = postfix

Start Dovecot service:

```
# systemctl restart dovecot
# chkconfig dovecot on
```

# nmap 202.191.120.55


## 4. SquireelMail confiuguration

```
# yum install epel-release -y
  # yum install squirrelmail -y
```

Configuring Squirrelmail:

Navigate to /usr/share/squirrelmail/config/ directory and run the command conf.pl:

```
# /usr/share/squirrelmail/config/conf.pl
```


```
SquirrelMail Configuration : Read: config.php (1.4.0)
---------------------------------------------------------
Server Settings

General
-------
1.  Domain              : zimbraexpert.com
2.  Invert Time         : false
3.  Sendmail or SMTP        : SMTP

A.  Update IMAP Settings   : localhost:143 (uw)
B.  Update SMTP Settings   :mail.zimbraexpert.com:25

R   Return to Main Menu
C   Turn color off
S   Save data
Q   Quit
```


Create a squirrelmail vhost in apache config file:

# yum install httpd -y

# vim /etc/httpd/conf/httpd.conf

Add the following lines at the end:

Alias /squirrelmail /usr/share/squirrelmail

<Directory /usr/share/squirrelmail>
    Options Indexes FollowSymLinks
    RewriteEngine On
    AllowOverride All
    DirectoryIndex index.php
    Order allow,deny
    Allow from all

</Directory>

Restart the Apache service:

# service httpd restart

# chkconfig httpd on
--

## 5. Advance level Configure

# Add relay

# vim /etc/postfix/main.cf

relay_domains = hash:/etc/postfix/relay_domains
relay_recipient_maps = hash:/etc/postfix/relay_recipients

# local user relay
# vim /etc/postfix/main.cf
local_recipient_maps = hash:/etc/postfix/relay_recipients

# vim /etc/postfix/relay_domains

zimbraexpert.com        OK

# postmap /etc/postfix/relay_domains

# vim /etc/postfix/relay_recipients

@zimbraexpert.com    OK                              ...........full domain
karim@zimbraexpert.com      OK                       ...........single user
kamal@zimbraexpert.com      OK

database create command
=========================
# postmap /etc/postfix/relay_recipients
# postmap /etc/postfix/relay_domains


# systemctl restart postfix

# mailq                  //queue check
#  postsuper -r ALL     //re queue
# postsuper -d ALL      // delete all queue mail

# Zimbra class four - Postfix using SSL/TLS authentication & Mail BCC copy & spam Security, domain relay

**BCC Copy Hidden Mail copy**
=====================
vim /etc/postfix/main.cf

sender_bcc_maps = hash:/etc/postfix/sender_bcc_maps
recipient_bcc_maps = hash:/etc/postfix/recipient_bcc_maps

# vim /etc/postfix/sender_bcc_maps

sumon@zimbraexpert.com          karim@zimbraexpert.com

# postmap /etc/postfix/sender_bcc_maps

# vim /etc/postfix/recipient_bcc_maps
sumon@zimbraexpert.com          karim@zimbraexpert.com

# postmap /etc/postfix/recipient_bcc_maps

# service postfix restart


http://linuxhelpbd.blogspot.com/2015/04/How-to-configure-Postfix-Dovecot-with-SMTP-AUTH-TLS-SSL-in-Centos-6.5.html

# **SSL/TLS Authentication Enable on postfix**

# yum install cyrus-sasl cyrus-sasl-devel cyrus-sasl-gssapi cyrus-sasl-md5 cyrus-sasl-plain -y

# vim /etc/postfix/main.cf          # end of the line

# SAL
smtpd_sasl_local_domain =
smtpd_sasl_auth_enable = yes
smtpd_sasl_type = cyrus
smtpd_sasl_security_options = noanonymous
broken_sasl_auth_clients = yes
smtpd_sasl_authenticated_header = yes
smtpd_recipient_restrictions =
permit_sasl_authenticated,permit_mynetworks,reject_unauth_destination

```
# TLS
smtpd_tls_auth_only = no
smtp_use_tls = yes
smtpd_use_tls = yes
smtp_tls_note_starttls_offer = yes
smtpd_tls_key_file = /etc/postfix/ssl/smtpd.key
smtpd_tls_cert_file = /etc/postfix/ssl/smtpd.crt
smtpd_tls_CAfile = /etc/postfix/ssl/cacert.pem
smtpd_tls_loglevel = 1
smtpd_tls_received_header = yes
smtpd_tls_session_cache_timeout = 3600s
tls_random_source = dev:/dev/urandom


# vim /etc/postfix/master.cf
submission inet n      -    n    -    -       smtpd
  -o syslog_name=postfix/submission
  -o smtpd_tls_security_level=encrypt
  -o smtpd_sasl_auth_enable=yes
  -o smtpd_reject_unlisted_recipient=no
  -o smtpd_client_restrictions=$mua_client_restrictions
  -o smtpd_helo_restrictions=$mua_helo_restrictions
  -o smtpd_sender_restrictions=$mua_sender_restrictions
  -o smtpd_recipient_restrictions=permit_sasl_authenticated,reject
  -o milter_macro_daemon_name=ORIGINATING
smtps    inet n      -    n    -    -       smtpd
  -o syslog_name=postfix/smtps
  -o smtpd_tls_wrappermode=yes
  -o smtpd_sasl_auth_enable=yes
  -o smtpd_reject_unlisted_recipient=no
  -o smtpd_client_restrictions=$mua_client_restrictions
  -o smtpd_helo_restrictions=$mua_helo_restrictions
  -o smtpd_sender_restrictions=$mua_sender_restrictions
  -o smtpd_recipient_restrictions=permit_sasl_authenticated,reject


# SSL Certificate Creation

# cd /etc/postfix
# mkdir ssl
# cd ssl
[root@mail ssl]# openssl genrsa -des3 -rand /etc/hosts -out smtpd.key 2048
253 semi-random bytes loaded
Generating RSA private key, 2048 bit long modulus
......................................+++
......................................................................+++
```

e is 65537 (0x10001)
Enter pass phrase for smtpd.key: 65537
Verifying - Enter pass phrase for smtpd.key: 65537
[root@mail ssl]# ll
total 4
-rw-r--r-- 1 root root 1751 Sep 22 20:22 smtpd.key
[root@mail ssl]# chmod 600 smtpd.key
[root@mail ssl]# ll
total 4
-rw------- 1 root root 1751 Sep 22 20:22 smtpd.key
[root@mail ssl]# openssl req -new -key smtpd.key -out smtpd.csr
Enter pass phrase for smtpd.key:
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) [XX]:BD
State or Province Name (full name) []:Asia
Locality Name (eg, city) [Default City]:Dhaka
Organization Name (eg, company) [Default Company Ltd]:Zimbraexpert
Organizational Unit Name (eg, section) []:ISP
Common Name (eg, your name or your server's hostname) []:mail.zimbraexpert.com
Email Address []:

Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []: Enter
An optional company name []: Enter
[root@mail ssl]# openssl x509 -req -days 3650 -in smtpd.csr -signkey smtpd.key -out
smtpd.crt
Signature ok
subject=/C=BD/ST=Asia/L=Dhaka/O=Webxbd/OU=ISP/CN=mail.zimbraexpert.com/ema
ilAddress=habib@zimbraexpert.com
Getting Private key
Enter pass phrase for smtpd.key:
[root@mail ssl]# openssl rsa -in smtpd.key -out smtpd.key.unencrypted
Enter pass phrase for smtpd.key:
writing RSA key
[root@mail ssl]# mv -f smtpd.key.unencrypted smtpd.key
[root@mail ssl]# openssl req -new -x509 -extensions v3_ca -keyout cakey.pem -out
cacert.pem -days 3650
Generating a 2048 bit RSA private key
....+++

....................+++
writing new private key to 'cakey.pem'
Enter PEM pass phrase:
Verifying - Enter PEM pass phrase:
-----
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) [XX]:BD
State or Province Name (full name) []:Asia
Locality Name (eg, city) [Default City]:Dhaka
Organization Name (eg, company) [Default Company Ltd]:zimbraexpert
Organizational Unit Name (eg, section) []:ISP
Common Name (eg, your name or your server's hostname) []:mail.zimbraexpert.com
Email Address []:
[root@mail ssl]#
[root@mail ssl]# ll
total 20
-rw-r--r-- 1 root root 1318 Sep 22 20:26 cacert.pem
-rw-r--r-- 1 root root 1834 Sep 22 20:26 cakey.pem
-rw-r--r-- 1 root root 1289 Sep 22 20:25 smtpd.crt
-rw-r--r-- 1 root root 1050 Sep 22 20:24 smtpd.csr
-rw-r--r-- 1 root root 1679 Sep 22 20:25 smtpd.key

#  service saslauthd start
# chkconfig saslauthd on

# tail -f /var/log/maillog

# vim /etc/postfix/main.cf

message_size_limit = 40485760

##################### SMTP Limit ###############################
smtpd_recipient_limit = 100
smtpd_recipient_overshoot_limit = 100
smtpd_hard_error_limit = 20
smtpd_client_recipient_rate_limit = 100
smtpd_client_connection_rate_limit = 100
smtpd_client_message_rate_limit = 50
default_extra_recipient_limit = 20
duplicate_filter_limit = 20

```
default_destination_recipient_limit = 100
smtp_destination_recipient_limit = $default_destination_recipient_limit

# Mail lifetime
maximal_queue_lifetime = 10d
bounce_queue_lifetime = 10d
queue_run_delay = 300s
minimal_backoff_time = 300s
maximal_backoff_time = 1800s
disable_vrfy_command = yes
smtpd_helo_required = yes
disable_vrfy_command = yes
strict_rfc821_envelopes = yes
invalid_hostname_reject_code = 554
multi_recipient_bounce_reject_code = 554
non_fqdn_reject_code = 554
relay_domains_reject_code = 554
unknown_address_reject_code = 554
unknown_client_reject_code = 554
unknown_hostname_reject_code = 554
unknown_local_recipient_reject_code = 554
unknown_relay_recipient_reject_code = 554
unknown_sender_reject_code = 554
unknown_virtual_alias_reject_code = 554
unknown_virtual_mailbox_reject_code = 554
unverified_recipient_reject_code = 554
unverified_sender_reject_code = 554
# SMTPD CLIENT RESTRICTIONS
smtpd_client_restrictions =
        permit_mynetworks,
        permit_sasl_authenticated,
        check_client_access hash:/etc/postfix/access,
        warn_if_reject reject_unknown_reverse_client_hostname
        reject_non_fqdn_helo_hostname
        reject_unauth_pipelining
        reject_invalid_helo_hostname
        reject_rbl_client bl.spamcop.net
        reject_unauth_pipelining

#SMTPD DATA RESTRICTIONS
smtpd_data_restrictions =
        reject_unauth_pipelining,
        reject_multi_recipient_bounce,

# SMTPD SENDER RESTRICTIONS
smtpd_sender_restrictions =
```

```
        permit_mynetworks,
        check_sender_access hash:/etc/postfix/access,
        reject_unknown_sender_domain,
        reject_unauth_pipelining,
        reject_unauth_destination
#

smtpd_recipient_restrictions =
        permit_mynetworks,
        permit_sasl_authenticated,
        reject_unauth_destination
        reject_unauth_pipelining,
        check_client_access hash:/etc/postfix/rbl_override,
        reject_unknown_reverse_client_hostname,
        reject_invalid_helo_hostname,
        reject_non_fqdn_helo_hostname,
        reject_non_fqdn_sender,
        reject_non_fqdn_recipient,
        reject_unknown_sender_domain,
        reject_unknown_recipient_domain,
        reject_invalid_hostname,
        check_client_access hash:/etc/postfix/client_checks,
        reject_rbl_client zen.spamhaus.org,
        reject_rbl_client bl.spamcop.net,
        reject_rbl_client b.barracudacentral.org,
        reject_rbl_client dnsbl.sorbs.net,
        check_policy_service unix:private/policy,
        permit

########### Counting limit ##########
smtp_destination_concurrency_limit = 50
smtp_destination_rate_delay = 1s
smtp_extra_recipient_limit = 15
############# Recipient Limited #####
uucp_destination_recipient_limit = 100
#
smtpd_error_sleep_time = 1s
smtpd_soft_error_limit = 10
smtpd_hard_error_limit = 20

# vim /etc/postfix/access
webxbd.com    OK
afccd.com       REJECT
134.23.20.1    DISCARD

# postmap /etc/postfix/access

#
```

```
# vim /etc/postfix/main.cf
# add Line 475
transport_maps = hash:/etc/postfix/transport

# vim /etc/postfix/transport

webxbd.com   smtp:[202.191.120.12]
-
# postmap /etc/postfix/transport

# systemctl restart postfix dovecot


#  systemctl restart postfix
# mailq

#  postsuper -r ALL     # re-queue all mail from queue
#  postsuper -d ALL     # remove all mail from queue
```

https://www.akadia.com/services/postfix_uce.html
Postfix Per-Client/User/etc. Access Control

Linux Help Desk (BD): How to set up MailScanner, Clam Antivirus and SpamAssassin in CentOS 6.5 (linuxhelpbd.blogspot.com)

--
How to Rotate and Compress Log Files in Linux with Logrotate (linuxtechi.com)

# Zimbra Class Five - zimbra mail server installation steps & proxy port disable

**Server ip = 202.191.120.55**
**user = root**
**password = Zimbra786@##**

1.domain : zimbraexpert.com
MX entry check from web tools https://mxtoolbox.com

## 2.Setup hosts Name
# vim /etc/hosts

127.0.0.1   localhost.localdomain localhost
202.191.120.55   mail.zimbraexpert.com     mail

# vim /etc/hostname

mail.zimbraexpert.com

## 3. Disable Firewalld & Selinux

# vim /etc/selinux/config

SELINUX=disabled

# systemctl stop firewalld
# systemctl disable firewalld

## 3. Disable postfix dovecot httpd saslauthd services

#  systemctl stop postfix dovecot httpd saslauthd
#  systemctl disable postfix dovecot httpd saslauthd

[root@mail ~]# nmap localhost

Starting Nmap 6.40 ( http://nmap.org ) at 2020-09-15 19:21 +06
Nmap scan report for localhost (127.0.0.1)

**PORT   STATE SERVICE**
22/tcp open  ssh
53/tcp open  domain

# yum install epel-release -y

# yum update -y

## 4. Zimbra Setup Start

### # zimbra setup tar file upload form filezilla pc to server

Visit:  https://www.zimbra.com/downloads/zimbra-collaboration-open-source/archives/

### Location /usr/local/src

# cd /usr/local/src

 # wget https://files.zimbra.com/downloads/8.8.7_GA/zcs-8.8.7_GA_1964.RHEL7_64.20180223145016.tgz

# tar -zxvf  zcs-8.8.7_GA_1964.RHEL7_64.20180223145016.tgz
#  cd zcs-8.8.7_GA_1964.RHEL7_64.20180223145016/

## # Zimbra Setup Option Details

[root@mail zcs-8.8.7_GA_1964.RHEL7_64.20180223145016 # ./installl.sh -help

-h|--help            Usage
-l|--license <file>     License file to install.
-a|--activation <file>  License activation file to install. [Upgrades only]
-r|--restore <dir>      Restore contents of <dir> to localconfig
-s|--softwareonly       Software only installation.
-u|--uninstall        Uninstall ZCS
-x|--skipspacecheck     Skip filesystem capacity checks.
--beta-support        Allows installer to upgrade Network Edition Betas.
--platform-override     Allows installer to continue on an unknown OS.
--skip-activation-check Allows installer to continue if license activation checks fail.
--skip-upgrade-check    Allows installer to skip upgrade validation checks.
--force-upgrade        Force upgrade to be set to YES. Used if there is package
installation failure for remote packages.
[defaultsfile]        File containing default install values.

**[root@mail zcs-8.8.7_GA_1964.RHEL7_64.20180223145016]# ./install.sh --platform-override**

```
Operations logged to /tmp/install.log.UyGoZip3
Checking for existing installation...
    zimbra-chat...NOT FOUND
    zimbra-drive...NOT FOUND
    zimbra-imapd...NOT FOUND
    zimbra-network-modules-ng...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
    zimbra-core...NOT FOUND


----------------------------------------------------------------------
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License Terms for this Zimbra Collaboration Suite Software:
https://www.zimbra.com/license/zimbra-public-eula-2-6.html
----------------------------------------------------------------------
Do you agree with the terms of the software license agreement? [N] y

Use Zimbra's package repository [Y] y

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)
Found zimbra-spell (local)
Found zimbra-memcached (repo)
Found zimbra-proxy (local)
Found zimbra-chat (repo)
Found zimbra-drive (repo)
Found zimbra-imapd (local)


Select the packages to install

**Install zimbra-ldap [Y] y**

**Install zimbra-logger [Y] y**

**Install zimbra-mta [Y] y**

**Install zimbra-dnscache [Y] n**

**Install zimbra-snmp [Y] y**

**Install zimbra-store [Y] y**

**Install zimbra-apache [Y] y**

**Install zimbra-spell [Y] y**

**Install zimbra-memcached [Y] n**

**Install zimbra-proxy [Y] n**

**Install zimbra-chat [Y] n**

**Install zimbra-drive [Y] n**

**Install zimbra-imapd (BETA - for evaluation only) [N] n**
Checking required space for zimbra-core
Checking space for zimbra-store
Checking required packages for zimbra-store
zimbra-store package check complete.

Installing:
    zimbra-core

      zimbra-ldap
      zimbra-logger
      zimbra-mta
      zimbra-snmp
      zimbra-store
      zimbra-apache
      zimbra-spell

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

Beginning Installation - see /tmp/install.log.UyGoZip3 for details...

              zimbra-core-components will be downloaded and installed.
               zimbra-timezone-data will be installed.
            zimbra-common-mbox-conf will be installed.
         zimbra-common-mbox-conf-attrs will be installed.
         zimbra-common-mbox-conf-msgs will be installed.
        zimbra-common-mbox-conf-rights will be installed.
             zimbra-common-mbox-db will be installed.
            zimbra-common-mbox-docs will be installed.
         zimbra-common-mbox-native-lib will be installed.
                zimbra-core will be installed.
           zimbra-ldap-components will be downloaded and installed.
               zimbra-ldap will be installed.
              zimbra-logger will be installed.
           zimbra-mta-components will be downloaded and installed.
               zimbra-mta will be installed.
           zimbra-snmp-components will be downloaded and installed.
              zimbra-snmp will be installed.
           zimbra-store-components will be downloaded and installed.
         zimbra-jetty-distribution will be downloaded and installed.
              zimbra-mbox-conf will be installed.
              zimbra-mbox-war will be installed.
            zimbra-mbox-service will be installed.
              zimbra-store will be installed.
         zimbra-apache-components will be downloaded and installed.
             zimbra-apache will be installed.
         zimbra-spell-components will be downloaded and installed.
             zimbra-spell will be installed.

Downloading packages (8):
  zimbra-core-components
  zimbra-ldap-components
  zimbra-mta-components
  zimbra-snmp-components
  zimbra-store-components

  zimbra-jetty-distribution
  zimbra-apache-components
  zimbra-spell-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 (8):
  zimbra-core-components
  zimbra-ldap-components
  zimbra-mta-components
  zimbra-snmp-components
  zimbra-store-components
  zimbra-jetty-distribution
  zimbra-apache-components
  zimbra-spell-components
   ...done

Installing local packages (19):
  zimbra-timezone-data
  zimbra-common-mbox-conf
  zimbra-common-mbox-conf-attrs
  zimbra-common-mbox-conf-msgs
  zimbra-common-mbox-conf-rights
  zimbra-common-mbox-db
  zimbra-common-mbox-docs
  zimbra-common-mbox-native-lib
  zimbra-core
  zimbra-ldap
  zimbra-logger
  zimbra-mta
  zimbra-snmp
  zimbra-mbox-conf
  zimbra-mbox-war
  zimbra-mbox-service
  zimbra-store
  zimbra-apache
  zimbra-spell
   ...done
Running Post Installation Configuration:
Operations logged to /tmp/zmsetup.20181005-173952.log

Installing LDAP configuration database...done.
Setting defaults...

**DNS ERROR resolving MX for mail.zimbraexpert.com**
It is suggested that the domain name have an MX record configured in DNS
Change domain name? [Yes] yes
Create domain: [mail.zimbraexpert.com] zimbraexpert.com
    MX: mail.zimbraexpert.com (202.191.120.55)

    Interface: 127.0.0.1
    Interface: ::1
    Interface: 202.191.120.55
done.
## Checking for port conflicts

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
    +Create Admin User:        yes
    +Admin user to create:        admin@zimbraexpert.com
******* +Admin Password         UNSET
    +Anti-virus quarantine user:     virus-quarantine.swmynapjc@zimbraexpert.com
    +Enable automated spam training:    yes
    +Spam training user:        spam.jtvk7oqzw@zimbraexpert.com
    +Non-spam(Ham) training user:    ham.wd3a1yt0@zimbraexpert.com
    +SMTP host:           mail.zimbraexpert.com
    +Web server HTTP port:      8080
    +Web server HTTPS port:     8443
    +HTTP proxy port:      80
    +HTTPS proxy port:     443
    +Web server mode:      https
    +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
    +Use spell check server:   yes
    +Spell server URL:     http://mail.zimbraexpert.com:7780/aspell.php

+Configure for use with mail proxy:    TRUE
       +Configure for use with web proxy:     TRUE
       +Enable version update checks:         TRUE
       +Enable version update notifications:  TRUE
       +Version update notification email:    admin@zimbraexpert.com
       +Version update source email:          admin@zimbraexpert.com
       +Install mailstore (service webapp):   yes
       +Install UI (zimbra,zimbraAdmin webapps): yes


   7) zimbra-spell:                    Enabled
   8) Default Class of Service Configuration:
   s) Save config to file
   x) Expand menu
   q) Quit


Address unconfigured (**) items  (? - help) 6



Store configuration


   1) Status:                      Enabled
   2) Create Admin User:               yes
   **3) Admin user to create:            admin@zimbraexpert.com**
** 4) Admin Password                  UNSET**
   5) Anti-virus quarantine user:           virus-quarantine.swmynapjc@zimbraexpert.com
   6) Enable automated spam training:        yes
   7) Spam training user:              spam.jtvk7oqzw@zimbraexpert.com
   8) Non-spam(Ham) training user:         ham.wd3a1yt0@zimbraexpert.com
   9) SMTP host:                  mail.zimbraexpert.com
  10) Web server HTTP port:             8080
  11) Web server HTTPS port:             8443
  12) HTTP proxy port:             80
  13) HTTPS proxy port:             443
  14) Web server mode:               https
  15) IMAP server port:             7143
  16) IMAP server SSL port:             7993
  17) IMAP proxy port:             143
  18) IMAP SSL proxy port:             993
  19) POP server port:             7110
  20) POP server SSL port:             7995
  21) POP proxy port:             110
  22) POP SSL proxy port:             995
  23) Use spell check server:            yes
  24) Spell server URL:               http://mail.zimbraexpert.com:7780/aspell.php
  25) Configure for use with mail proxy:    TRUE
  26) Configure for use with web proxy:     TRUE

27) Enable version update checks:          TRUE
28) Enable version update notifications:     TRUE
29) Version update notification email:       admin@zimbraexpert.com
30) Version update source email:           admin@zimbraexpert.com
31) Install mailstore (service webapp):      yes
32) Install UI (zimbra,zimbraAdmin webapps): yes


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

**Password for admin@zimbraexpert.com (min 6 characters): [nBqBH8Bc]
Zimbra786@##**


Store configuration

 1) Status:                      Enabled
 2) Create Admin User:                yes
 3) Admin user to create:              admin@zimbraexpert.com
 4) Admin Password               set
 5) Anti-virus quarantine user:           virus-quarantine.swmynapjc@zimbraexpert.com
 6) Enable automated spam training:        yes
 7) Spam training user:               spam.jtvk7oqzw@zimbraexpert.com
 8) Non-spam(Ham) training user:         ham.wd3a1yt0@zimbraexpert.com
 9) SMTP host:                 mail.zimbraexpert.com
10) Web server HTTP port:           8080
11) Web server HTTPS port:            8443
12) HTTP proxy port:            80
13) HTTPS proxy port:             443
14) Web server mode:              https
15) IMAP server port:           7143
16) IMAP server SSL port:           7993
17) IMAP proxy port:            143
18) IMAP SSL proxy port:            993
19) POP server port:            7110
20) POP server SSL port:            7995
21) POP proxy port:             110
22) POP SSL proxy port:             995
23) Use spell check server:           yes
24) Spell server URL:               http://mail.zimbraexpert.com:7780/aspell.php
25) Configure for use with mail proxy:      TRUE
26) Configure for use with web proxy:       TRUE
27) Enable version update checks:          TRUE
28) Enable version update notifications:     TRUE
29) Version update notification email:       admin@zimbraexpert.com
30) Version update source email:           admin@zimbraexpert.com
31) Install mailstore (service webapp):      yes
32) 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) Default Class of Service Configuration:
  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.4947] yes
Saving config in yes...done.
The system will be modified - continue? [No] yes
Operations logged to /tmp/zmsetup.20181005-173952.log
Setting local config values...done.
Initializing core config...Setting up CA...done.
Deploying CA to /opt/zimbra/conf/ca ...done.
Creating SSL zimbra-store certificate...done.
Creating new zimbra-ldap SSL certificate...done.
Creating new zimbra-mta SSL certificate...done.
Installing mailboxd SSL certificates...done.
Installing MTA SSL certificates...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 mail.zimbraexpert.com...done.
Setting Zimbra IP Mode...done.
Saving CA in ldap...done.
Saving SSL Certificate in ldap...done.
Setting spell check URL...done.
Setting service ports on mail.zimbraexpert.com...done.
Setting zimbraFeatureTasksEnabled=TRUE...done.

Setting zimbraFeatureBriefcasesEnabled=TRUE...done.
Checking current setting of zimbraReverseProxyAvailableLookupTargets
Querying LDAP for other mailstores
Searching LDAP for reverseProxyLookupTargets...done.
Adding [mail.zimbraexpert.com](mail.zimbraexpert.com) to zimbraReverseProxyAvailableLookupTargets
Setting TimeZone Preference...done.
Initializing mta config...done.
Setting services on mail.zimbraexpert.com...done.
Adding [mail.zimbraexpert.com](mail.zimbraexpert.com) to zimbraMailHostPool in default COS...done.
Creating domain zimbraexpert.com...done.
Setting default domain name...done.
Creating domain zimbraexpert.com...already exists.
Creating admin account admin@zimbraexpert.com...done.
Creating root alias...done.
Creating postmaster alias...done.
Creating user spam.jtvk7oqzw@zimbraexpert.com...done.
Creating user ham.wd3a1yt0@zimbraexpert.com...done.
Creating user virus-quarantine.swmynapjc@zimbraexpert.com...done.
Setting spam training and Anti-virus quarantine accounts...done.
Initializing store sql database...done.
Setting zimbraSmtpHostname for mail.zimbraexpert.com...done.
Configuring SNMP...done.
Setting up syslog.conf...done.
Starting servers...done.
Installing common zimlets...
        com_zimbra_adminversioncheck...done.
        com_zimbra_attachcontacts...done.
        com_zimbra_attachmail...done.
        com_zimbra_bulkprovision...done.
        com_zimbra_cert_manager...done.
        com_zimbra_clientuploader...done.
        com_zimbra_date...done.
        com_zimbra_email...done.
        com_zimbra_mailarchive...done.
        com_zimbra_phone...done.
        com_zimbra_proxy_config...done.
        com_zimbra_srchhighlighter...done.
        com_zimbra_tooltip...done.
        com_zimbra_url...done.
        com_zimbra_viewmail...done.
        com_zimbra_webex...done.
        com_zimbra_ymemoticons...done.
Finished installing common zimlets.
Restarting mailboxd...done.
**Creating galsync account for default domain...done.**

You have the option of notifying Zimbra of your installation.
This helps us to track the uptake of the Zimbra Collaboration Server.
The only information that will be transmitted is:
The VERSION of zcs installed (8.8.7_GA_1964_RHEL7_64)
The ADMIN EMAIL ADDRESS created (admin@zimbraexpert.com)

**Notify Zimbra of your installation? [Yes] yes**
Notifying Zimbra of installation via http://www.zimbra.com/cgi-bin/notify.cgi?VER=8.8.7_GA_1964_RHEL7_64&MAIL=admin@zimbraexpert.com

Notification complete

Setting up zimbra crontab...done.

Moving /tmp/zmsetup.20181005-173952.log to /opt/zimbra/log

**Configuration complete - press return to exit  Enter**

# su zimbra
$ zmcontrol restart

# nmap mail.zimbraexpert.com

# **Zimbra proxy ports disable**

Visit  https://wiki.zimbra.com/wiki/Zimbra_Proxy_Manual:Installing_,_Configuring,_Disabling_the_Zimbra_Proxy

# su zimbra

# [zimbra@mail root]$ zmtlsctl -help
Warning: No proxy servers were detected. No validation will be performed.
Usage: /opt/zimbra/bin/zmtlsctl [both|http|https|redirect|mixed|help]

[zimbra@mail root]$ zmtlsctl both

## Proxy ports Migration Steps

$ /opt/zimbra/libexec/zmproxyconfig -e -w -o -a 8080:80:8443:443 -H `zmhostname`

$ /opt/zimbra/libexec/zmproxyconfig -e -m -o -i 7143:143:7993:993 -p 7110:110:7995:995 -H `zmhostname`

zmprov ms `zmhostname` zimbraImapProxyBindPort 0
zmprov ms `zmhostname` zimbraImapSSLProxyBindPort 0
zmprov ms `zmhostname` zimbraPop3ProxyBindPort 0

zmprov ms `zmhostname` zimbraPop3SSLProxyBindPort 0

zmprov ms `zmhostname` zimbraImapBindPort 143
zmprov ms `zmhostname` zimbraImapSSLBindPort 993
zmprov ms `zmhostname` zimbraPop3BindPort 110
zmprov ms `zmhostname` zimbraPop3SSLBindPort 995

zmprov ms `zmhostname` zimbraMailProxyPort 0
zmprov ms `zmhostname` zimbraMailSSLProxyPort 0

zmprov ms `zmhostname` zimbraMailPort 80
zmprov ms `zmhostname` zimbraMailSSLPort 443

**Proxy Service disable**

zmprov ms `zmhostname` -zimbraServiceEnabled memcached
zmprov ms `zmhostname` -zimbraServiceEnabled imapproxy

$ zmcontrol restart
$ exit

# systemctl enable zimbra

# [root@mail ~]# nmap [mail.zimbraexpert.com](mail.zimbraexpert.com)

**PORT     STATE SERVICE**
22/tcp   open  ssh
25/tcp   open  smtp
53/tcp   open  domain
80/tcp   open  http
110/tcp  open  pop3
111/tcp  open  rpcbind
143/tcp  open  imap
389/tcp  open  ldap
443/tcp  open  https
465/tcp  open  smtps
587/tcp  open  submission
993/tcp  open  imaps
995/tcp  open  pop3s
7025/tcp open  vmsvc-2

--
Admin Panel
=============
[https://mail.zimbraexpert.com:7071](https://mail.zimbraexpert.com:7071)
user = admin

pass = Zimbra786@##

## Trabelshoting for zimbra service status not update on admin panel

[Fix the Zimbra Collaboration Permissions - Zimbra :: Tech Center](#)

```
# su zimbra
$ zmcontrol stop
$ systemctl restart rsyslog
# /opt/zimbra/libexec/zmfixperms -extended
 # su zimbra
$ zmcontrol restart
```

Zmprov Examples - Zimbra :: Tech Center

# create  zimbra user with password form SSH

 # su zimbra

$ zmprove ca user1@zimbraexpert.com Zimbra786@##

# Change zimbra user password form SSH

# su zimbra

$ zmprove sp admin@zimbraexpert.com Zimbra786@##

 $ zmprove sp admin@zimbraexpert.com Zimbra786@##


Zmprov Examples - Zimbra :: Tech Center
How to set a default COS for a specific domain - Zimbra Forums

# Class of Service from command line
$ zmprov setAccountCos kamal@zimbraexpert.com limited-user

How To Create an User Account - Zimbra :: Tech Center


add user on distribution list  sales@zimbraexpert.com is group list

$ zmprov
adlm sales@zimbraexpert.com halim4@zimbraexpert.com halim7@zimbraexpert.com halim8@zimbraexpert.co

# Zimbra class seven - Bcc copy, SPF, dkim, dmarc, domain whitelist/blacklist

## # zimbra bcc send & receipt copy

https://wiki.zimbra.com/wiki/Email_redirection
# su zimbra
$ vim /opt/zimbra/common/conf/main.cf

sender_bcc_maps = lmdb:/opt/zimbra/common/conf/sender_bcc
recipient_bcc_maps = lmdb:/opt/zimbra/common/conf/recipient_bcc

$ vim /opt/zimbra/common/conf/sender_bcc
$ vim /opt/zimbra/common/conf/recipient_bcc

# chown zimbra:zimbra sender_bcc recipient_bcc

$ postmap /opt/zimbra/common/conf/recipient_bcc
$ postmap /opt/zimbra/common/conf/sender_bcc

$ zmmtactl reload
$ postfix reload

https://www.spfwizard.net/


SPF Record Sample:

# vim /var/named/zimbraexpert.com

$TTL 3600
@ IN SOA ns1.zimbraexpert.com.          root.ns1.zimbraexpert.com. (
          2020090307     ; Serial
          10800          ; Refresh after 15 hours
          3600           ; Retry after 1 hour
          604800          ; Expire after 1 Week
          86400 )        ; Minimum TTL of 1 day

          IN NS ns1.zimbraexpert.com.
          IN NS ns2.zimbraexpert.com.

@          IN     MX     10     mail.zimbraexpert.com.

@          IN TXT "v=spf1 +mx +a +ip4:202.191.120.55 +ip4:202.191.120.56 ~all"

          IN     A     202.191.120.55

```
www       IN    A    202.191.120.55
mail      IN    A    202.191.120.55
mailb     IN    A    202.191.120.56
ns1       IN    A    202.191.120.55
ns2       IN    A    202.191.120.56
ftp       IN    A    202.191.120.57
```

DKIM Key Generate:
https://wiki.zimbra.com/wiki/Best_Practices_on_Email_Protection:_SPF,_DKIM_and_DMARC

# su zimbra

# /opt/zimbra/libexec/zmdkimkeyutil -a -d zimbraexpert.com

# /opt/zimbra/libexec/zmdkimkeyutil -a -d zimbraexpert.com          # DKIM Generate

# /opt/zimbra/libexec/zmdkimkeyutil -u -d zimbraexpert.com          # DKIM Update

```
E83E228C-1642-11E9-8849-12947FABE097._domainkey IN    TXT    ( "v=DKIM1;
k=rsa; "
      "p=MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAxhfs4FChdK2QFA
BjYU73/RfWhNZSGklyDh+jpgq0LW6++DB/z1LLSHyLhWSNSAwDU          bIpLCK
7+B3FhgOJjR4mJBl3xXXvR/PQJa7UZKmLJMwiBhPpbdCcdEm6G8mrfJIhOPtnZ0mY1
Qha+1jGgVXCB1g1T5lOINT/f0WCMCAFX165pORJFqu05X/r0bJ          iD7JSplfQ
FAXNYIhPCP"
      "0Yhbxx/Nhh2LqjsGp6sFr0BWxumVTMBzjTM++76Rik7UTDR74793fCpMPXCeiq
lCB9Or2Jn/yN1txs8lK/vwY0qbZYrgtlDOTYDwGr/KAqs+m8K          tJmxZfbt7eaLO
ksmy1xCNaUtwIDAQAB" )  ; ----- DKIM key E83E228C-1642-11E9-8849-
12947FABE097 for  zimbraexpert.com
```

# DNS Part  in Forward Zone

# vim /var/named/zimbraexpert.com

```
$TTL 3600
@ IN SOA ns1.zimbraexpert.com.        root.ns1.zimbraexpert.com. (
        2020092103     ; Serial
        10800          ; Refresh after 15 hours
        3600           ; Retry after 1 hour
        604800         ; Expire after 1 Week
        86400 )        ; Minimum TTL of 1 day
```

IN NS ns1.zimbraexpert.com.
IN NS ns2.zimbraexpert.com.

@            IN    MX    10    mail.zimbraexpert.com.

@            IN TXT "v=spf1 +mx +a +ip4:202.191.120.55 +ip4:202.191.120.56 ~all"

BBEDB0A8-FCF0-11EA-89C5-7ABA456E6195._domainkey IN    TXT    ( "v=DKIM1; k=rsa; "
        "p=MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAvxXVZd4Qhnaz/H ezFnR7/TTq1ESvbfdPLieI27yybp0In0AXTpLmIURVcwclrjPZEJ9jph61MEfc7OrlmatC90 3r2p6uJW/Q8+3IsXc+ymEF9Oqy0GkzFsVwphaCoujR7LqbTwNm/IyMwE3fbYq9vP4D8r /jCmyaLcuf7GRYy9ZRJWDzlw+FyQQIsNpt+XtTHMUf+8DSnMcvgS"
        "yGvVu9z8jYEn/4IROs9pMVZxOc6wwmdz1fuMAR2Es/ClCBMCYbWvUj7LkslFu Y1KR3JTICLOHf19TWX2IxfYftOxY7ecZzntz/g1cyInlLrJmkLmZIRSQ8pNI45sN+ddwNi8 a4RQIDAQAB" )  ; ----- DKIM key BBEDB0A8-FCF0-11EA-89C5-7ABA456E6195 for zimbraexpert.com

_dmarc      IN TXT "v=DMARC1; p=none;
rua=mailto:administrator@zimbraexpert.com;
ruf=mailto:administrator@zimbraexpert.com"

@            IN    A    202.191.120.55
www          IN    A    202.191.120.55
mail         IN    A    202.191.120.55




## server Banner Check & update

# su zimbra

# zmlocalconfig -s postfix_smtpd_banner
postfix_smtpd_banner = mail.zimbraexpert.com.

Set Command
# zmlocalconfig -e postfix_smtpd_banner= mail.zimbraexpert.com.

--
## Local mail junk delivery.

Domain name = test.com

1.
add the line in

# vim /opt/zimbra/conf/amavisd.conf.in
'test.com'                     => -10.0,

refer this link

https://wiki.zimbra.com/index.php?title=Improving_Anti-spam_system#User_white.2Fblack_list

https://goinggnu.wordpress.com/2012/07/25/getting-spam-mails-for-your-local-domain-users-in-zimbra/


# vim /opt/zimbra/conf/salocal.cf.in

whitelist_from *@test.com
score FH_DATE_PAST_20XX 0.0

# su zimbra

$ zmamavisdctl restart

$ zmcontrol restart

# Multiple Domain Parking
# How to change Zimbra Logo
```
===============================
```
# # Logo Change with URL
https://blog.zimbra.com/2015/09/change-login-app-logo-open-source-network-edition/

**Application Banner, 200px X 35px in Zimbra Collaboration 8.x**

**Login Banner, 440px X 60px in Zimbra Collaboration 8.x**

`# mkdir /opt/zimbra/jetty/webapps/zimbra/logos/`

# upload files to `/opt/zimbra/jetty/webapps/zimbra/logos/`

```
# chown zimbra:zimbra
/opt/zimbra/jetty/webapps/zimbra/logos/MyLoginBanner.png
# chown zimbra:zimbra /opt/zimbra/jetty/webapps/zimbra/logos/MyAppBanner.png
```
# su zimbra

```
zmprov md zimbraexpert.com zimbraSkinLogoURL https://www.bijoy.net
zmprov md zimbraexpert.com zimbraSkinLogoLoginBanner /logos/MyLoginBanner.png
zmprov md zimbraexpert.com zimbraSkinLogoAppBanner /logos/MyAppBanner.png
zmmailboxdctl restart
```

# **SSL Commercial Certificate Deployment.**
https://helpdesk.ssls.com/hc/en-us/articles/360002006951-How-to-install-an-SSL-certificate-on-Zimbra

1. the certificate and CA bundle were uploaded into
the **/opt/**mail_zimbraexpert_com.crt and **/opt/**mail_zimbraexpert_com.ca-bundle

# chown zimbra:zimbra mail_zimbraexpert_com.ca-bundle

# chown zimbra:zimbra mail_zimbraexpert_com.crt

# su zimbra

# chown zimbra:root /opt

2. Verify that your certificate and private key match by using this command:

  /opt/zimbra/bin/zmcertmgr verifycrt
comm  **/opt/zimbra/ssl/zimbra/commercial/commercial.key
/opt/mail_zimbraexpert_com.crt /opt/mail_zimbraexpert_com.ca-bundle**


**Result: Valid certificate chain: /opt/mail_zimbraexpert_com.crt: OK**


**3. Deploy the certificate by running this command:
/opt/zimbra/bin/zmcertmgr deploycrt comm
/opt/mail_zimbraexpert_com.crt /opt/mail_zimbraexpert_com.ca-bundle**


**4. You can verify the certificate details by running this command:
/opt/zimbra/bin/zmcertmgr viewdeployedcrt**


# su zimbra

$ zmtlsctl redirect

$ zmcontrol restart


**How to check queue status for hold,deferred,active**

To check all queue details as follow with root

**[root@mail lqs]# /opt/zimbra/libexec/zmqstat
hold=0
corrupt=0
deferred=0
active=0
incoming=0**

To Check current mail queue status

[root@mail lqs]# su zimbra
[zimbra@mail lqs]$ **/opt/zimbra/common/sbin/postqueue -p**
Mail queue is empty

To Flush Postfix Queue

[root@mail lqs]$ **/opt/zimbra/common/sbin/postqueue -f**

To Requeue Messages In Postfix

[root@mail lqs]$ **/opt/zimbra/common/sbin/postsuper -r ALL**

To Check current hold messages

[root@mail lqs]# **/opt/zimbra/common/sbin/postsuper -h ALL**

To Delete ALL Messages From Queue

[root@mail lqs]# **/opt/zimbra/common/sbin/postsuper -d ALL**

To Delete ALL Messages From The Deferred Queue

[root@mail lqs]# **/opt/zimbra/common/sbin/postsuper -d ALL deferred**

To Delete ALL Messages From The Hold Queue

[root@mail lqs]# **/opt/zimbra/common/sbin/postsuper -d ALL hold**

# **Spammer ID Find from log file**

# cat /var/log/zimbra.log | sed -n 's/.*sasl_username=//p' | sort | uniq -c | sort -n


# **Particular Email all queue delete from Mail Queue.**
# /opt/zimbra/common/sbin/postqueue -p | tail -n +2 | awk 'BEGIN { RS = "" } /
kamal@zimbraexpert\.com/ { print $1 }' | tr -d '*' | /opt/zimbra/common/sbin/postsuper -d -


#

# zimbra Mail view option disable from Admin Panel.


[root@mail ~]# su zimbra
[zimbra@mail root]$ zmzimletctl listZimlets

Installed Zimlet files on this host:
        com_zimbra_adminversioncheck
        com_zimbra_attachcontacts
        com_zimbra_attachmail
        com_zimbra_bulkprovision
        com_zimbra_cert_manager
        com_zimbra_clientuploader
        com_zimbra_date
        com_zimbra_email
        com_zimbra_mailarchive
        com_zimbra_phone
        com_zimbra_proxy_config
        com_zimbra_srchhighlighter
        com_zimbra_tooltip
        com_zimbra_url
        com_zimbra_viewmail
        com_zimbra_webex
        com_zimbra_ymemoticons
Installed Zimlets in LDAP:
        com_zimbra_attachcontacts
        com_zimbra_attachmail
        com_zimbra_date
        com_zimbra_email
        com_zimbra_mailarchive
        com_zimbra_phone
        com_zimbra_srchhighlighter
        com_zimbra_url
        com_zimbra_webex
        com_zimbra_ymemoticons
Available Zimlets in COS:
  default:
        com_zimbra_attachcontacts
        com_zimbra_attachmail
        com_zimbra_date
        com_zimbra_email
        com_zimbra_mailarchive
        com_zimbra_phone
        com_zimbra_srchhighlighter
        com_zimbra_url
        com_zimbra_webex
        com_zimbra_ymemoticons
  defaultExternal:

[zimbra@mail root]$ zmzimletctl undeploy com_zimbra_viewmail
[] INFO: Uninstalling Zimlet com_zimbra_viewmail from LDAP.
[] INFO: Removing Zimlet com_zimbra_viewmail from COS default
[] INFO: Removing Zimlet com_zimbra_viewmail from COS defaultExternal

[] INFO: undeploying zimlet com_zimbra_viewmail
[] INFO: zimlet directory com_zimbra_viewmail is deleted
[zimbra@mail root]$ zmprov fc all
[zimbra@mail root]$ zmmailboxdctl restart


# cd /opt/zimbra/zimlets


[zimbra@mail zimlets]$ ll
total 1440
-rw-rw-r-- 1 zimbra zimbra  73158 May  5  2017 com_zimbra_adminversioncheck.zip
-rw-rw-r-- 1 zimbra zimbra  40109 May  5  2017 com_zimbra_attachcontacts.zip
-rw-rw-r-- 1 zimbra zimbra  37534 May  5  2017 com_zimbra_attachmail.zip
-rw-rw-r-- 1 zimbra zimbra 257450 May  5  2017 com_zimbra_bulkprovision.zip
-rw-rw-r-- 1 zimbra zimbra 135792 May  5  2017 com_zimbra_cert_manager.zip
-rw-rw-r-- 1 zimbra zimbra  44738 May  5  2017 com_zimbra_clientuploader.zip
-rw-rw-r-- 1 zimbra zimbra 123698 May  5  2017 com_zimbra_date.zip
-rw-rw-r-- 1 zimbra zimbra  80552 May  5  2017 com_zimbra_email.zip
-rw-rw-r-- 1 zimbra zimbra  45055 May  5  2017 com_zimbra_mailarchive.zip
-rw-rw-r-- 1 zimbra zimbra  33763 May  5  2017 com_zimbra_phone.zip
-rw-rw-r-- 1 zimbra zimbra  94903 May  5  2017 com_zimbra_proxy_config.zip
-rw-rw-r-- 1 zimbra zimbra  28962 May  5  2017 com_zimbra_srchhighlighter.zip
-rw-rw-r-- 1 zimbra zimbra  30867 May  5  2017 com_zimbra_tooltip.zip
-rw-rw-r-- 1 zimbra zimbra  39775 May  5  2017 com_zimbra_url.zip
-rw-rw-r-- 1 zimbra zimbra  28508 May  5  2017 com_zimbra_viewmail.zip
-rw-rw-r-- 1 zimbra zimbra 151457 May  5  2017 com_zimbra_webex.zip
-rw-rw-r-- 1 zimbra zimbra 200116 May  5  2017 com_zimbra_ymemoticons.zip


Zimlet install command

# su zimbra


[zimbra@mail zimlets]$ zmzimletctl deploy com_zimbra_viewmail.zip


[] INFO: Deploying Zimlet com_zimbra_viewmail in LDAP.
[] INFO: Installing Zimlet com_zimbra_viewmail on this host.
[] INFO: Upgrading Zimlet com_zimbra_viewmail to 8.5.0
[] INFO: Enabling Zimlet com_zimbra_viewmail


[zimbra@mail zimlets]$ zmprov fc all

[zimbra@mail zimlets]$ zmmailboxdctl restart

RBL list

==============

https://dilliganesh.wordpress.com/2017/10/10/how-to-add-rbls-and-rhsbls-on-zimbra-server/

Zimbra External LDAP Configure with Outlook

============================================================

These are the settings you should have
Authentication mechanism: External LDAP
LDAP bind DN template: (leave empty)
LDAP URL: ldap://mail.zimbraexpert.com:389
LDAP filter: (&(objectClass=FILTERNAME)(mail=%n))
LDAP search base: ou=people,dc=example,dc=com
Use DN/Password to bind to external server: No

Outlook configure.

user = uid=galsync.1mtkn0mhj, ou=people, dc=zimbraexpert, dc=com
password = GAL account password.

https://wiki.zimbra.com/wiki/Configure_Zimbra_GAL_as_LDAP_addressbook_in_Outlook

# #Block user to send email locally or externally

 https://wiki.zimbra.com/wiki/Block_user_to_send_email_locally_or_externally

--

Zimbra Version Upgrade Process

`# /opt/zimbra/libexec/zmfixperms -extended -v`

[root@mail ~]# cd /usr/local/src/
[root@mail src]# ll
total 268960
drwxrwxr-x 8  503  503      289 Feb 24  2018 zcs-8.8.7_GA_1964.RHEL7_64.20180223145016
-rw-r--r-- 1 root root 275412612 Mar  7  2018 zcs-8.8.7_GA_1964.RHEL7_64.20180223145016.tgz
[root@mail src]# wget https://files.zimbra.com/downloads/8.8.12_GA/zcs-8.8.12_GA_3794.RHEL7_64.20190329045002.tgz

--2020-09-29 22:34:43-- https://files.zimbra.com/downloads/8.8.12_GA/zcs-8.8.12_GA_3794.RHEL7_64.20190329045002.tgz
Resolving files.zimbra.com (files.zimbra.com)... 13.227.189.155
Connecting to files.zimbra.com (files.zimbra.com)|13.227.189.155|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 254480139 (243M) [binary/octet-stream]
Saving to: 'zcs-8.8.12_GA_3794.RHEL7_64.20190329045002.tgz'

100%[====================================================================
========================>] 254,480,139 33.8MB/s   in 7.6s

2020-09-29 22:34:52 (31.8 MB/s) - 'zcs-8.8.12_GA_3794.RHEL7_64.20190329045002.tgz'
saved [254480139/254480139]

[root@mail src]# tar -zxvf zcs-8.8.12_GA_3794.RHEL7_64.20190329045002.tgz

[root@mail src]# cd zcs-8.8.12_GA_3794.RHEL7_64.20190329045002/

[root@mail zcs-8.8.12_GA_3794.RHEL7_64.20190329045002]# ./install.sh -h
./install.sh [-r <dir> -l <file> -a <file> -u -s -c type -x -h] [defaultsfile]

-h|--help            Usage
-l|--license <file>    License file to install.
-a|--activation <file>  License activation file to install. [Upgrades only]
-r|--restore <dir>      Restore contents of <dir> to localconfig
-s|--softwareonly      Software only installation.
-u|--uninstall         Uninstall ZCS
-x|--skipspacecheck     Skip filesystem capacity checks.
--beta-support         Allows installer to upgrade Network Edition Betas.
--platform-override     Allows installer to continue on an unknown OS.
--skip-activation-check Allows installer to continue if license activation checks fail.
--skip-upgrade-check    Allows installer to skip upgrade validation checks.
--force-upgrade        Force upgrade to be set to YES. Used if there is package installation
failure for remote packages.
[defaultsfile]         File containing default install values.

[root@mail zcs-8.8.12_GA_3794.RHEL7_64.20190329045002]# ./install.sh --platform-override
^C
Operations logged to /tmp/install.log.oil8Lkwl
Checking for existing installation...
    zimbra-drive...NOT FOUND
    zimbra-imapd...NOT FOUND
    zimbra-patch...NOT FOUND
    zimbra-mta-patch...NOT FOUND
    zimbra-proxy-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...FOUND zimbra-ldap-8.8.7_GA_1964
    zimbra-logger...FOUND zimbra-logger-8.8.7_GA_1964
    zimbra-mta...FOUND zimbra-mta-8.8.7_GA_1964
    zimbra-dnscache...NOT FOUND
    zimbra-snmp...FOUND zimbra-snmp-8.8.7_GA_1964
    zimbra-store...FOUND zimbra-store-8.8.7_GA_1964
    zimbra-apache...FOUND zimbra-apache-8.8.7_GA_1964
    zimbra-spell...FOUND zimbra-spell-8.8.7_GA_1964
    zimbra-convertd...NOT FOUND
    zimbra-memcached...NOT FOUND
    zimbra-proxy...NOT FOUND
    zimbra-archiving...NOT FOUND
    zimbra-core...FOUND zimbra-core-8.8.7_GA_1964
ZCS upgrade from 8.8.7 to 8.8.12 will be performed.
Validating ldap configuration
LDAP validation succeeded.  Continuing.
---------------------------------------------------------------------
PLEASE READ THIS AGREEMENT CAREFULLY BEFORE USING THE SOFTWARE.
SYNACOR, INC. ("SYNACOR") WILL ONLY LICENSE THIS SOFTWARE TO YOU IF YOU
FIRST ACCEPT THE TERMS OF THIS AGREEMENT. BY DOWNLOADING OR INSTALLING
THE SOFTWARE, OR USING THE PRODUCT, YOU ARE CONSENTING TO BE BOUND BY
THIS AGREEMENT. IF YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS
AGREEMENT, THEN DO NOT DOWNLOAD, INSTALL OR USE THE PRODUCT.

License Terms for this Zimbra Collaboration Suite Software:
https://www.zimbra.com/license/zimbra-public-eula-2-6.html
---------------------------------------------------------------------

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

Checking current number of databases...
```

Do you want to verify message store database integrity? [Y] n

```
Use Zimbra's package repository [Y] y
```

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)
Found zimbra-spell (local)
Found zimbra-memcached (repo)
Found zimbra-proxy (local)
Found zimbra-drive (repo)
Found zimbra-imapd (local)
Found zimbra-patch (repo)
Found zimbra-mta-patch (repo)
Found zimbra-proxy-patch (repo)

The Zimbra Collaboration Server appears to already be installed.
It can be upgraded with no effect on existing accounts,
or the current installation can be completely removed prior
to installation for a clean install.

Do you wish to upgrade? [Y] y

Scanning for any new or additional packages available for installation
Existing packages will be upgraded
    Upgrading zimbra-core
    Upgrading zimbra-ldap
    Upgrading zimbra-logger
    Upgrading zimbra-mta

Install zimbra-dnscache [N] n
    Upgrading zimbra-snmp
    Upgrading zimbra-store
    Upgrading zimbra-apache
    Upgrading zimbra-spell

Install zimbra-memcached [N] n

Install zimbra-proxy [N] n

Install zimbra-drive [N] n

Install zimbra-imapd (BETA - for evaluation only) [N] n

Install zimbra-chat [N] n
Checking required space for zimbra-core
Checking space for zimbra-store

Checking required packages for zimbra-store
zimbra-store package check complete.

Installing:
   zimbra-core
   zimbra-ldap
   zimbra-logger
   zimbra-mta
   zimbra-snmp
   zimbra-store
   zimbra-apache
   zimbra-spell
   zimbra-patch
   zimbra-mta-patch

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

Beginning Installation - see /tmp/install.log.oil8Lkwl 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 will be installed.
      zimbra-common-mbox-conf-attrs will be installed.
       zimbra-common-mbox-conf-msgs will be installed.
      zimbra-common-mbox-conf-rights will be installed.
        zimbra-common-mbox-db will be installed.
       zimbra-common-mbox-docs will be installed.
     zimbra-common-mbox-native-lib 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-logger will be installed.
       zimbra-mta-components will be downloaded and installed.
         zimbra-mta will be installed.
      zimbra-snmp-components will be downloaded and installed.
        zimbra-snmp will be installed.
      zimbra-store-components will be downloaded and installed.
     zimbra-jetty-distribution will be downloaded and installed.
        zimbra-mbox-conf will be installed.
        zimbra-mbox-war will be installed.
       zimbra-mbox-service will be installed.
      zimbra-mbox-webclient-war will be installed.
     zimbra-mbox-admin-console-war will be installed.
       zimbra-mbox-store-libs will be installed.
         zimbra-store will be installed.

zimbra-apache-components will be downloaded and installed.
zimbra-apache will be installed.
zimbra-spell-components will be downloaded and installed.
zimbra-spell will be installed.
zimbra-patch will be downloaded and installed (later).
zimbra-mta-patch will be downloaded and installed.

Downloading packages (9):
   zimbra-core-components
   zimbra-ldap-components
   zimbra-mta-components
   zimbra-snmp-components
   zimbra-store-components
   zimbra-jetty-distribution
   zimbra-apache-components
   zimbra-spell-components
   zimbra-mta-patch
     ...done

Saving existing configuration file to /opt/zimbra/.saveconfig

Shutting down zimbra mail

Backing up the ldap database...done.
Upgrading the remote packages

Removing deployed webapp directories

Installing repo packages (9):
   zimbra-core-components
   zimbra-ldap-components
   zimbra-mta-components
   zimbra-snmp-components
   zimbra-store-components
   zimbra-jetty-distribution
   zimbra-apache-components
   zimbra-spell-components
   zimbra-mta-patch
     ...done

Installing local packages (24):
   zimbra-timezone-data
   zimbra-common-core-jar
   zimbra-common-mbox-conf
   zimbra-common-mbox-conf-attrs
   zimbra-common-mbox-conf-msgs
   zimbra-common-mbox-conf-rights

```
     zimbra-common-mbox-db
     zimbra-common-mbox-docs
     zimbra-common-mbox-native-lib
     zimbra-common-core-libs
     zimbra-core
     zimbra-ldap
     zimbra-logger
     zimbra-mta
     zimbra-snmp
     zimbra-mbox-conf
     zimbra-mbox-war
     zimbra-mbox-service
     zimbra-mbox-webclient-war
     zimbra-mbox-admin-console-war
     zimbra-mbox-store-libs
     zimbra-store
     zimbra-apache
     zimbra-spell
       ...done

Installing extra packages (1):
   zimbra-patch
       ...done

Running Post Installation Configuration:

Setting defaults from saved config in /opt/zimbra/.saveconfig/config.save
   HOSTNAME=mail.zimbraexpert.com
   LDAPHOST=mail.zimbraexpert.com
   LDAPPORT=389
   SNMPTRAPHOST=mail.zimbraexpert.com
   SMTPSOURCE=administrator@zimbraexpert.com
   SMTPDEST=administrator@zimbraexpert.com
   SNMPNOTIFY=yes
   SMTPNOTIFY=yes
   LDAPROOTPW=*
   LDAPZIMBRAPW=*
   LDAPPOSTPW=*
   LDAPREPPW=*
   LDAPAMAVISPW=*
   LDAPNGINXPW=*
Restoring existing configuration file from /opt/zimbra/.saveconfig/localconfig.xml...done
Operations logged to /tmp/zmsetup.20200929-224755.log
Adding /opt/zimbra/conf/ca/ca.pem to cacerts
Upgrading from 8.8.7_GA_1964 to 8.8.12_GA_3794
Stopping zimbra services...done.
This appears to be 8.8.7_GA
```

Starting mysql...done.
Checking ldap status...not running.
Checking ldap status...not running.
Starting ldap...done.
Running mysql_upgrade...done.
Schema upgrade required from version 108 to 109.
Running /opt/zimbra/libexec/scripts/migrate20180301-ZimbraChat.pl
Tue Sep 29 22:48:47 2020: Verified schema version 108.
Tue Sep 29 22:48:49 2020: Verified schema version 108.
Tue Sep 29 22:48:49 2020: Updating DB schema version from 108 to 109.
Stopping mysql...done.
Updating zimbraLDAPSchemaVersion to version '1537783098'
Applying updates for 8.8.11_GA
applying 8811GA upgrade changesStopping ldap...done.
Checking ldap status...not running.
Checking ldap status...not running.
Starting ldap...done.
Applying updates for 8.8.12_GA
applying 8812GA upgrade changes
Updating to CA certs path
Updating global config and COS's with attributes introduced after 8.8.7_GA...done.
Stopping ldap...done.
Upgrade complete.

Checking ldap status....not running.
Starting ldap...done.
Setting defaults...done.
Setting defaults from existing config...done.
Checking for port conflicts
Setting defaults from ldap...done.
Saving config in /opt/zimbra/config.22011...done.
Operations logged to /tmp/zmsetup.20200929-224755.log
Setting local config values...done.
Initializing core config...Setting up CA...done.
Deploying CA to /opt/zimbra/conf/ca ...done.
Setting replication password...done.
Setting Postfix password...done.
Setting amavis password...done.
Setting nginx password...done.
Creating server entry for mail.zimbraexpert.com...already exists.
Setting Zimbra IP Mode...done.
Saving CA in ldap...done.
Saving SSL Certificate in ldap...done.
Setting spell check URL...done.
Setting service ports on mail.zimbraexpert.com...done.
Setting Keyboard Shortcut Preferences...done.
Setting zimbraFeatureTasksEnabled=TRUE...done.

Setting zimbraFeatureBriefcasesEnabled=TRUE...done.
Setting TimeZone Preference...done.
Initializing mta config...done.
Setting services on mail.zimbraexpert.com...done.
Adding mail.zimbraexpert.com to zimbraMailHostPool in default COS...done.
Creating user spam.m7uriyk3gq@zimbraexpert.com...already exists.
Creating user ham.mwzq7zel3u@zimbraexpert.com...already exists.
Creating user virus-quarantine.ekmgbanidv@zimbraexpert.com...already exists.
Setting spam training and Anti-virus quarantine accounts...done.
Configuring SNMP...done.
Setting up syslog.conf...done.
Starting servers...done.
Checking for deprecated zimlets...done.
Checking for network zimlets in LDAP...done.
Removing network zimlets...
Finished removing network zimlets.
Installing common zimlets...
        com_zimbra_adminversioncheck...done.
        com_zimbra_attachcontacts...done.
        com_zimbra_attachmail...done.
        com_zimbra_bulkprovision...done.
        com_zimbra_cert_manager...done.
        com_zimbra_clientuploader...done.
        com_zimbra_date...done.
        com_zimbra_email...done.
        com_zimbra_mailarchive...done.
        com_zimbra_phone...done.
        com_zimbra_proxy_config...done.
        com_zimbra_srchhighlighter...done.
        com_zimbra_tooltip...done.
        com_zimbra_url...done.
        com_zimbra_viewmail...done.
        com_zimbra_webex...done.
        com_zimbra_ymemoticons...done.
Finished installing common zimlets.
Getting list of all zimlets...done.
Updating non-standard zimlets...
Finished updating non-standard zimlets.
Restarting mailboxd...done.
Skipping creation of default domain GAL sync account - existing install detected.

You have the option of notifying Zimbra of your installation.
This helps us to track the uptake of the Zimbra Collaboration Server.
The only information that will be transmitted is:
        The VERSION of zcs installed (8.8.12_GA_3794_RHEL7_64)
        The ADMIN EMAIL ADDRESS created (admin@zimbraexpert.com)

Notify Zimbra of your installation? [Yes] yes
Notifying Zimbra of installation via http://www.zimbra.com/cgi-bin/notify.cgi?VER=8.8.12_GA_3794_RHEL7_64&MAIL=admin@zimbraexpert.com

Notification complete

Checking if the NG started running...done.
Setting up zimbra crontab...done.

Moving /tmp/zmsetup.20200929-224755.log to /opt/zimbra/log

Configuration complete - press return to exit


# su zimbra

$ zmcontrol restart

# Zimbra Backup  Server configure steps.

[root@mailb ~]# nmap 202.191.120.56

Starting Nmap 6.40 ( http://nmap.org ) at 2020-10-01 23:44 +06
Nmap scan report for localhost (127.0.0.1)
Host is up (0.000010s latency).
rDNS record for 127.0.0.1: localhost.localdomain
Not shown: 998 closed ports
PORT   STATE SERVICE
22/tcp open  ssh
25/tcp open  smtp

Nmap done: 1 IP address (1 host up) scanned in 1.62 seconds
[root@mailb ~]# service postfix stop
Redirecting to /bin/systemctl stop postfix.service
[root@mailb ~]# chkconfig postfix off
Note: Forwarding request to 'systemctl disable postfix.service'.
Removed symlink /etc/systemd/system/multi-user.target.wants/postfix.service.
[root@mailb ~]# nmap localhost

Starting Nmap 6.40 ( http://nmap.org ) at 2020-10-01 23:45 +06
Nmap scan report for localhost (127.0.0.1)
Host is up (0.0000080s latency).
rDNS record for 127.0.0.1: localhost.localdomain
Not shown: 999 closed ports
PORT   STATE SERVICE
22/tcp open  ssh

Nmap done: 1 IP address (1 host up) scanned in 1.62 seconds
[root@mailb ~]# hostname
mailb.zimbraexpert.com
[root@mailb ~]# cd /usr/local/src/
[root@mailb src]# ll
total 0
[root@mailb src]# wget https://files.zimbra.com/downloads/8.8.12_GA/zcs-8.8.12_GA_3794.RHEL7_64.20190329045002.tgz

[root@mailb src]# tar -zxvf zcs-8.8.12_GA_3794.RHEL7_64.20190329045002.tgz

[root@mailb src]# cd zcs-8.8.12_GA_3794.RHEL7_64.20190329045002/

[root@mailb zcs-8.8.12_GA_3794.RHEL7_64.20190329045002]# ./install.sh -h
./install.sh [-r <dir> -l <file> -a <file> -u -s -c type -x -h] [defaultsfile]

-h|--help           Usage
-l|--license <file>     License file to install.
-a|--activation <file>  License activation file to install. [Upgrades only]
-r|--restore <dir>      Restore contents of <dir> to localconfig
-s|--softwareonly       Software only installation.
-u|--uninstall       Uninstall ZCS
-x|--skipspacecheck     Skip filesystem capacity checks.
--beta-support        Allows installer to upgrade Network Edition Betas.
--platform-override     Allows installer to continue on an unknown OS.
--skip-activation-check Allows installer to continue if license activation checks fail.
--skip-upgrade-check    Allows installer to skip upgrade validation checks.
--force-upgrade        Force upgrade to be set to YES. Used if there is package installation
failure for remote packages.
[defaultsfile]        File containing default install values.

**[root@mailb zcs-8.8.12_GA_3794.RHEL7_64.20190329045002]# ./install.sh -s**

Operations logged to /tmp/install.log.wTwLf39N
Checking for existing installation...
    zimbra-drive...NOT FOUND
    zimbra-imapd...NOT FOUND
    zimbra-patch...NOT FOUND
    zimbra-mta-patch...NOT FOUND
    zimbra-proxy-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
    zimbra-core...NOT FOUND

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-store (local)
Found zimbra-apache (local)
Found zimbra-spell (local)
Found zimbra-memcached (repo)
Found zimbra-proxy (local)
Found zimbra-drive (repo)
Found zimbra-imapd (local)
Found zimbra-patch (repo)
Found zimbra-mta-patch (repo)
Found zimbra-proxy-patch (repo)

Select the packages to install

Install zimbra-ldap [Y] y

Install zimbra-logger [Y] y

Install zimbra-mta [Y] y

Install zimbra-dnscache [Y] n

Install zimbra-snmp [Y] y

Install zimbra-store [Y] y

Install zimbra-apache [Y] y

Install zimbra-spell [Y] y

Install zimbra-memcached [Y] n

Install zimbra-proxy [Y] n

Install zimbra-drive [Y] n

Install zimbra-imapd (BETA - for evaluation only) [N] n

Install zimbra-chat [Y] n
Checking required space for zimbra-core
Checking space for zimbra-store
Checking required packages for zimbra-store
zimbra-store package check complete.

Installing:
   zimbra-core
   zimbra-ldap
   zimbra-logger
   zimbra-mta
   zimbra-snmp
   zimbra-store
   zimbra-apache
   zimbra-spell
   zimbra-patch
   zimbra-mta-patch

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

Beginning Installation - see /tmp/install.log.wTwLf39N 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 will be installed.
zimbra-common-mbox-conf-attrs will be installed.
zimbra-common-mbox-conf-msgs will be installed.
zimbra-common-mbox-conf-rights will be installed.
zimbra-common-mbox-db will be installed.
zimbra-common-mbox-docs will be installed.
zimbra-common-mbox-native-lib 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-logger will be installed.
zimbra-mta-components will be downloaded and installed.
zimbra-mta will be installed.
zimbra-snmp-components will be downloaded and installed.
zimbra-snmp will be installed.
zimbra-store-components will be downloaded and installed.
zimbra-jetty-distribution will be downloaded and installed.
zimbra-mbox-conf will be installed.
zimbra-mbox-war will be installed.
zimbra-mbox-service will be installed.
zimbra-mbox-webclient-war will be installed.
zimbra-mbox-admin-console-war will be installed.
zimbra-mbox-store-libs will be installed.
zimbra-store will be installed.
zimbra-apache-components will be downloaded and installed.
zimbra-apache will be installed.
zimbra-spell-components will be downloaded and installed.
zimbra-spell will be installed.
zimbra-patch will be downloaded and installed (later).
zimbra-mta-patch will be downloaded and installed.

Downloading packages (9):
   zimbra-core-components
   zimbra-ldap-components
   zimbra-mta-components
   zimbra-snmp-components
   zimbra-store-components
   zimbra-jetty-distribution
   zimbra-apache-components
   zimbra-spell-components
   zimbra-mta-patch
      ...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 (9):
   zimbra-core-components
   zimbra-ldap-components
   zimbra-mta-components
   zimbra-snmp-components
   zimbra-store-components
   zimbra-jetty-distribution
   zimbra-apache-components
   zimbra-spell-components
   zimbra-mta-patch
      ...done

Installing local packages (24):
   zimbra-timezone-data
   zimbra-common-core-jar
   zimbra-common-mbox-conf
   zimbra-common-mbox-conf-attrs
   zimbra-common-mbox-conf-msgs
   zimbra-common-mbox-conf-rights
   zimbra-common-mbox-db
   zimbra-common-mbox-docs
   zimbra-common-mbox-native-lib
   zimbra-common-core-libs
   zimbra-core
   zimbra-ldap
   zimbra-logger
   zimbra-mta
   zimbra-snmp
   zimbra-mbox-conf
   zimbra-mbox-war
   zimbra-mbox-service
   zimbra-mbox-webclient-war
   zimbra-mbox-admin-console-war
   zimbra-mbox-store-libs
   zimbra-store
   zimbra-apache
   zimbra-spell
      ...done

Installing extra packages (1):
  zimbra-patch
    ...done

Running Post Installation Configuration:

Software Installation complete!

Operations logged to /tmp/install.log.wTwLf39N


# # Remove Carefully from Backup Server # <span style="background-color: red">warning</span>


# rm -rf  /opt/zimbra

# chkconfig zimbra off

# Please back to main zimbra server

# Mail zimbra server1:


```
# nice -n +19 rsync --progress -avzHS -e ssh /opt/zimbra/
root@202.191.120.56:/opt/zimbra/  # manually rsync from shell
```

## > Incremental rsync backup/sync over SSH without password

```
# ssh-keygen -t dsa

enter here : Enter file in which to save the key
(/root/.ssh/id_dsa):/root/.ssh/id_dsa_mailb
```

and press Enter. You will see a prompt: "Enter passphrase"
Don't type anything, just press Enter

The next question is "Enter same passphrase again:"
Again don't type anything and just press Enter.

On your local Linux system run:
```
scp -r /root/.ssh/id_dsa_mailb.pub root@202.191.120.56:/root/
```

Are you sure you want to continue connecting (yes/no)? yes

press password to backup server

Connect to your remote server and type, as root to backup server the following commands:

login to backup server again.

# ssh 202.191.120.56

# # mkdir /root/.ssh

```
# cat /root/id_dsa_mailb.pub >> /root/.ssh/authorized_keys
```

```
# chmod 644 /root/.ssh/authorized_keys
```

# exit

test login command

```
# ssh -i /root/.ssh/id_dsa_mailb root@202.191.120.56    # test mail server to
remote server login using keys zimbra server
```

from mail server to backup server command

# vim /var/spool/cron/root

30 00 * * *  nice -n +19 rsync --progress -avzHS -e "ssh -i /root/.ssh/id_dsa_mailb" /opt/zimbra/
root@202.191.120.56:/opt/zimbra/
30 04 * * * nice -n -2 0 rsync -avzHS -e "ssh -i /root/.ssh/id_dsa_mailb" --delete --progress
/opt/zimbra/ root@202.191.120.56:/opt/zimbra/


#
# systemctl restart crond

# systemctl enable crond


# tail -f /var/log/cron

# # Backup server restoring Steps

## # Primary Zimbra Server will be stop

# Goto Backup Server.

# sestatus
# systemctl status firewalld
 # service postfix status

## Last Backup from Primary Server.

# nice -n +19 rsync --progress -avzHS /opt/zimbra/ root@202.191.120.56:/opt/zimbra/

# Backup server name will be change as like Primary mail server .....hostname, ip,

# vim /etc/hosts
202.191.120.56  mailb.zimbraexpert.com        mailb
Change to
202.191.120.55  mail.zimbraexpert.com         mail

# vim /etc/hostname

mail.zimbraexpert.com

# ip change from eth0

# vim /etc/sysconfig/network-scripts/ifcfg-ens160

TYPE=Ethernet
PROXY_METHOD=none
BROWSER_ONLY=no

```
BOOTPROTO=static
DEFROUTE=yes
IPV4_FAILURE_FATAL=no
IPV6INIT=yes
IPV6_AUTOCONF=yes
IPV6_DEFROUTE=yes
IPV6_FAILURE_FATAL=no
IPV6_ADDR_GEN_MODE=stable-privacy
NAME=ens160
UUID=328b8b77-fed4-4f2d-9705-4957ceeebbbb
DEVICE=ens160
ONBOOT=yes
#
IPADDR= 202.191.120.55
NETMASK=255.255.255.224
GATEWAY= 202.191.120.33
DNS1= 202.191.120.56
DNS2= 202.191.120.55
```

\# systemctl disable zimbra

\# reboot

\# after rebooted server

[root@mail ~]# nslookup
> set q=mx
> [zimbraexpert.com](zimbraexpert.com)
Server:          202.191.120.55
Address:         202.191.120.55 #53

[zimbraexpert.com](zimbraexpert.com)        mail exchanger = 10 [mail.zimbraexpert.com](mail.zimbraexpert.com).
> exit

\# su zimbra

\# zmcontrol status
\# zmcontrol stop

# [root@mail ~]# /opt/zimbra/libexec/zmfixperms -extended -v

Fixing ownership and permissions on /opt/zimbra/conf

Fixing permissions on /opt/zimbra/conf/ca

Fixing permissions on /opt/zimbra/conf/ca/commercial_ca_1.crt

Fixing permissions on /opt/zimbra/conf/ca/commercial_ca_2.crt

Fixing permissions on /opt/zimbra/conf/ca/commercial_ca_3.crt

Fixing permissions on /opt/zimbra/conf/ca/ca.pem

Fixing ownership and permissions on /opt/zimbra/conf/ldap-canonical.cf

Fixing ownership and permissions on /opt/zimbra/conf/ldap-slm.cf

Fixing ownership and permissions on /opt/zimbra/conf/ldap-transport.cf

Fixing ownership and permissions on /opt/zimbra/conf/ldap-vad.cf

Fixing ownership and permissions on /opt/zimbra/conf/ldap-vam.cf

Fixing ownership and permissions on /opt/zimbra/conf/ldap-vmd.cf

Fixing ownership and permissions on /opt/zimbra/conf/ldap-vmm.cf

Fixing permissions and ownership on /opt/zimbra/conf/imapd.crt

Fixing permissions and ownership on /opt/zimbra/conf/nginx.crt

Fixing permissions and ownership on /opt/zimbra/conf/slapd.crt

Fixing permissions and ownership on /opt/zimbra/conf/smtpd.crt

Fixing permissions and ownership on /opt/zimbra/conf/imapd.key

Fixing permissions and ownership on /opt/zimbra/conf/nginx.key

Fixing permissions and ownership on /opt/zimbra/conf/slapd.key

Fixing permissions and ownership on /opt/zimbra/conf/smtpd.key

Fixing permissions and ownership on /opt/zimbra/conf/zmssl.cnf

Fixing ownership and permissions on /var/log/zimbra.log

Fixing ownership and permissions on /opt/zimbra/conf/crontabs

Fixing ownership and permissions on /opt/zimbra/common/lib/jylibs

Fixing ownership and permissions on /opt/zimbra/lib

Fixing ownership and permissions on /opt/zimbra/db

Fixing ownership and permissions on /opt/zimbra/data/sasl2/state

Fixing ownership and permissions on /opt/zimbra/data/amavisd

Fixing ownership and permissions on /opt/zimbra/jetty

Fixing ownership and permissions on /opt/zimbra/ssl

Fixing ownership and permissions on /opt/zimbra/data/ldap

Fixing ownership and permissions on /opt/zimbra/logger/db

Fixing ownership and permissions on /opt/zimbra/zmstat

Fixing postfix related permissions

Fixing ownership and permissions on /opt/zimbra/data/postfix

Fixing ownership of /opt/zimbra/index

Fixing ownership of /opt/zimbra/backup

Fixing ownership of /opt/zimbra/redolog

Fixing ownership of /opt/zimbra/store

[root@mail ~]# nmap localhost


Starting Nmap 6.40 ( http://nmap.org ) at 2021-03-31 23:33 +06

Nmap scan report for localhost (127.0.0.1)

Host is up (0.000019s latency).

rDNS record for 127.0.0.1: localhost.localdomain

Not shown: 996 closed ports

PORT    STATE SERVICE

22/tcp  open  ssh

25/tcp  open  smtp

53/tcp  open  domain

111/tcp open  rpcbind


Nmap done: 1 IP address (1 host up) scanned in 2.27 seconds

[root@mail ~]# systemctl disable postfix

Removed symlink /etc/systemd/system/multi-user.target.wants/postfix.service.

[root@mail ~]# systemctl stop postfix

[root@mail ~]# nmap localhost


Starting Nmap 6.40 ( http://nmap.org ) at 2021-03-31 23:33 +06

Nmap scan report for localhost (127.0.0.1)

Host is up (0.000018s latency).

rDNS record for 127.0.0.1: localhost.localdomain

Not shown: 997 closed ports

PORT    STATE SERVICE

22/tcp  open  ssh

53/tcp  open  domain

111/tcp open  rpcbind


Nmap done: 1 IP address (1 host up) scanned in 1.67 seconds

[root@mail ~]# cd /usr/local/src/zcs-8.8.12_GA_3794.RHEL7_64.20190329045002/

[root@mail zcs-8.8.12_GA_3794.RHEL7_64.20190329045002]# ll

total 24

drwxrwxr-x 2 503 503  127 Mar 29  2019 bin

drwxrwxr-x 2 503 503   31 Mar 29  2019 data

drwxrwxr-x 3 503 503   34 Mar 29  2019 docs

-rwxr-xr-x 1 503 503 8873 Mar 29  2019 install.sh

drwxrwxr-x 3 503 503   18 Mar 29  2019 lib

drwxrwxr-x 2 503 503 4096 Mar 29  2019 packages

-rw-rw-r-- 1 503 503  369 Mar 29  2019 readme_binary_en_US.txt

-rw-rw-r-- 1 503 503  428 Mar 29  2019 README.txt

drwxrwxr-x 3 503 503   76 Mar 29  2019 util

[root@mail zcs-8.8.12_GA_3794.RHEL7_64.20190329045002]# ./install.sh -h

./install.sh [-r <dir> -l <file> -a <file> -u -s -c type -x -h] [defaultsfile]


-h|--help           Usage

-l|--license <file>     License file to install.

-a|--activation <file>  License activation file to install. [Upgrades only]

-r|--restore <dir>      Restore contents of <dir> to localconfig

-s|--softwareonly       Software only installation.

-u|--uninstall        Uninstall ZCS

-x|--skipspacecheck     Skip filesystem capacity checks.

--beta-support         Allows installer to upgrade Network Edition Betas.

--platform-override     Allows installer to continue on an unknown OS.

--skip-activation-check Allows installer to continue if license activation checks fail.

--skip-upgrade-check    Allows installer to skip upgrade validation checks.

--force-upgrade         Force upgrade to be set to YES. Used if there is package installation failure for remote packages.

[defaultsfile]          File containing default install values.

## [root@mail zcs-8.8.12_GA_3794.RHEL7_64.20190329045002]# ./install.sh --platform-override

Operations logged to /tmp/install.log.G2EjU16y

Checking for existing installation...

   zimbra-drive...NOT FOUND

   zimbra-imapd...NOT FOUND

   zimbra-patch...FOUND zimbra-patch-8.8.12.1568982480

   zimbra-mta-patch...FOUND zimbra-mta-patch-8.8.12.1552427139

   zimbra-proxy-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...FOUND zimbra-ldap-8.8.12_GA_3794

   zimbra-logger...FOUND zimbra-logger-8.8.12_GA_3794

   zimbra-mta...FOUND zimbra-mta-8.8.12_GA_3794

   zimbra-dnscache...NOT FOUND

   zimbra-snmp...FOUND zimbra-snmp-8.8.12_GA_3794

   zimbra-store...FOUND zimbra-store-8.8.12_GA_3794

   zimbra-apache...FOUND zimbra-apache-8.8.12_GA_3794

zimbra-spell...FOUND zimbra-spell-8.8.12_GA_3794

zimbra-convertd...NOT FOUND

zimbra-memcached...NOT FOUND

zimbra-proxy...NOT FOUND

zimbra-archiving...NOT FOUND

zimbra-core...FOUND zimbra-core-8.8.12_GA_3794

ZCS upgrade from 8.8.12 to 8.8.12 will be performed.

Validating ldap configuration

LDAP validation succeeded.  Continuing.


--------------------------------------------------------------------

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License Terms for this Zimbra Collaboration Suite Software:

https://www.zimbra.com/license/zimbra-public-eula-2-6.html

--------------------------------------------------------------------




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




Checking current number of databases...

Do you want to verify message store database integrity? [Y] n

Use Zimbra's package repository [Y] y

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)
Found zimbra-spell (local)
Found zimbra-memcached (repo)
Found zimbra-proxy (local)
Found zimbra-drive (repo)
Found zimbra-imapd (local)
Found zimbra-patch (repo)
Found zimbra-mta-patch (repo)
Found zimbra-proxy-patch (repo)

The Zimbra Collaboration Server appears to already be installed.

It can be upgraded with no effect on existing accounts,

or the current installation can be completely removed prior

to installation for a clean install.


Do you wish to upgrade? [Y] y


Scanning for any new or additional packages available for installation

Existing packages will be upgraded

    Upgrading zimbra-core

    Upgrading zimbra-ldap

    Upgrading zimbra-logger

    Upgrading zimbra-mta


Install zimbra-dnscache [N] n

    Upgrading zimbra-snmp

    Upgrading zimbra-store

    Upgrading zimbra-apache

    Upgrading zimbra-spell


Install zimbra-memcached [N] n


Install zimbra-proxy [N] n


Install zimbra-drive [N] n


Install zimbra-imapd (BETA - for evaluation only) [N] n

    Upgrading zimbra-patch

    Upgrading zimbra-mta-patch


Install zimbra-chat [N] n

Checking required space for zimbra-core

Checking space for zimbra-store

Checking required packages for zimbra-store

zimbra-store package check complete.

Installing:

   zimbra-core

   zimbra-ldap

   zimbra-logger

   zimbra-mta

   zimbra-snmp

   zimbra-store

   zimbra-apache

   zimbra-spell

   zimbra-patch

   zimbra-mta-patch

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

Beginning Installation - see /tmp/install.log.G2EjU16y 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 will be installed.

                zimbra-common-mbox-conf-attrs will be installed.

               zimbra-common-mbox-conf-msgs will be installed.

              zimbra-common-mbox-conf-rights will be installed.

                 zimbra-common-mbox-db will be installed.

               zimbra-common-mbox-docs will be installed.

zimbra-common-mbox-native-lib 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-logger will be installed.

zimbra-mta-components will be downloaded and installed.

zimbra-mta will be installed.

zimbra-snmp-components will be downloaded and installed.

zimbra-snmp will be installed.

zimbra-store-components will be downloaded and installed.

zimbra-jetty-distribution will be downloaded and installed.

zimbra-mbox-conf will be installed.

zimbra-mbox-war will be installed.

zimbra-mbox-service will be installed.

zimbra-mbox-webclient-war will be installed.

zimbra-mbox-admin-console-war will be installed.

zimbra-mbox-store-libs will be installed.

zimbra-store will be installed.

zimbra-apache-components will be downloaded and installed.

zimbra-apache will be installed.

zimbra-spell-components will be downloaded and installed.

zimbra-spell will be installed.

zimbra-patch will be downloaded and installed (later).

zimbra-mta-patch will be downloaded and installed.


Downloading packages (9):

zimbra-core-components

zimbra-ldap-components

zimbra-mta-components

zimbra-snmp-components

zimbra-store-components

zimbra-jetty-distribution

zimbra-apache-components

zimbra-spell-components

zimbra-mta-patch

...done


Saving existing configuration file to /opt/zimbra/.saveconfig


Shutting down zimbra mail


Backing up the ldap database...done.


Removing existing packages


zimbra-patch...done

zimbra-mta-patch...done

zimbra-ldap...done

zimbra-logger...done

zimbra-mta...done

zimbra-snmp...done

zimbra-store...done

zimbra-spell...done

zimbra-core...done


Removing deployed webapp directories


Installing repo packages (9):

zimbra-core-components

zimbra-ldap-components

zimbra-mta-components

zimbra-snmp-components

zimbra-store-components

zimbra-jetty-distribution

zimbra-apache-components

zimbra-spell-components

zimbra-mta-patch

   ...done


Installing local packages (24):

  zimbra-timezone-data

  zimbra-common-core-jar

  zimbra-common-mbox-conf

  zimbra-common-mbox-conf-attrs

  zimbra-common-mbox-conf-msgs

  zimbra-common-mbox-conf-rights

  zimbra-common-mbox-db

  zimbra-common-mbox-docs

  zimbra-common-mbox-native-lib

  zimbra-common-core-libs

  zimbra-core

  zimbra-ldap

  zimbra-logger

  zimbra-mta

  zimbra-snmp

  zimbra-mbox-conf

  zimbra-mbox-war

  zimbra-mbox-service

  zimbra-mbox-webclient-war

zimbra-mbox-admin-console-war

zimbra-mbox-store-libs

zimbra-store

zimbra-apache

zimbra-spell

   ...done


Installing extra packages (1):

zimbra-patch

   ...done


Running Post Installation Configuration:


Setting defaults from saved config in /opt/zimbra/.saveconfig/config.save

   HOSTNAME=mail.zimbraexpert.com

   LDAPHOST=mail.zimbraexpert.com

   LDAPPORT=389

   SNMPTRAPHOST=mail.zimbraexpert.com

   SMTPSOURCE=admin@zimbraexpert.com

   SMTPDEST=admin@zimbraexpert.com

   SNMPNOTIFY=yes

   SMTPNOTIFY=yes

   LDAPROOTPW=*

   LDAPZIMBRAPW=*

   LDAPPOSTPW=*

   LDAPREPPW=*

   LDAPAMAVISPW=*

   LDAPNGINXPW=*

Restoring existing configuration file from /opt/zimbra/.saveconfig/localconfig.xml...done

Operations logged to /tmp/zmsetup.20210331-234045.log

Adding /opt/zimbra/conf/ca/ca.pem to cacerts

Checking ldap status....not running.

Starting ldap...done.

Setting defaults...done.

Setting defaults from existing config...done.

Checking for port conflicts

Setting defaults from ldap...done.

Saving config in /opt/zimbra/config.12478...done.

Operations logged to /tmp/zmsetup.20210331-234045.log

Setting local config values...done.

Initializing core config...Setting up CA...done.

Deploying CA to /opt/zimbra/conf/ca ...done.

Setting replication password...done.

Setting Postfix password...done.

Setting amavis password...done.

Setting nginx password...done.

Creating server entry for mail.zimbraexpert.com...already exists.

Setting Zimbra IP Mode...done.

Saving CA in ldap...done.

Saving SSL Certificate in ldap...done.

Setting spell check URL...done.

Setting service ports on mail.zimbraexpert.com...done.

Setting Keyboard Shortcut Preferences...done.

Setting zimbraFeatureTasksEnabled=TRUE...done.

Setting zimbraFeatureBriefcasesEnabled=TRUE...done.

Updating zimbraLDAPSchemaVersion to version '1537783098'

Setting TimeZone Preference...done.

Initializing mta config...done.

Setting services on mail.zimbraexpert.com...done.

Adding [mail.zimbraexpert.com](mail.zimbraexpert.com) to zimbraMailHostPool in default COS...done.

Creating user spam.xhr2hpnni@zimbraexpert.com...already exists.

Creating user ham.ycekhiyqq@zimbraexpert.com...already exists.

Creating user virus-quarantine.29uvclrqee@zimbraexpert.com...already exists.

Setting spam training and Anti-virus quarantine accounts...done.

Configuring SNMP...done.

Setting up syslog.conf...done.

Starting servers...done.

Checking for deprecated zimlets...done.

Checking for network zimlets in LDAP...done.

Removing network zimlets...

Finished removing network zimlets.

Installing common zimlets...

 com_zimbra_adminversioncheck...done.

 com_zimbra_attachcontacts...done.

 com_zimbra_attachmail...done.

 com_zimbra_bulkprovision...done.

 com_zimbra_cert_manager...done.

 com_zimbra_clientuploader...done.

 com_zimbra_date...done.

 com_zimbra_email...done.

 com_zimbra_mailarchive...done.

 com_zimbra_phone...done.

 com_zimbra_proxy_config...done.

 com_zimbra_srchhighlighter...done.

 com_zimbra_tooltip...done.

 com_zimbra_url...done.

 com_zimbra_viewmail...done.

 com_zimbra_webex...done.

 com_zimbra_ymemoticons...done.

Finished installing common zimlets.

Getting list of all zimlets...done.

Updating non-standard zimlets...

Finished updating non-standard zimlets.

Restarting mailboxd...done.

Skipping creation of default domain GAL sync account - existing install detected.


You have the option of notifying Zimbra of your installation.

This helps us to track the uptake of the Zimbra Collaboration Server.

The only information that will be transmitted is:

The VERSION of zcs installed (8.8.12_GA_3794_RHEL7_64)

The ADMIN EMAIL ADDRESS created ([admin@zimbraexpert.com](mailto:admin@zimbraexpert.com))


Notify Zimbra of your installation? [Yes] yes

Notifying Zimbra of installation via [http://www.zimbra.com/cgi-bin/notify.cgi?VER=8.8.12_GA_3794_RHEL7_64&MAIL=admin@zimbraexpert.com](http://www.zimbra.com/cgi-bin/notify.cgi?VER=8.8.12_GA_3794_RHEL7_64&MAIL=admin@zimbraexpert.com)


Notification complete


Checking if the NG started running...done.

Setting up zimbra crontab...done.


Moving /tmp/zmsetup.20210331-234045.log to /opt/zimbra/log


Configuration complete - press return to exit


# reboot

--

[How to install and configure Config Server Firewall (CSF) on CentOS | DigitalOcean](#)

# Installing ConfigServer Firewall

- First we need to make sure that perl is installed

```
yum install wget vim perl-libwww-perl.noarch perl-Time-HiRes
```

- Then we can go ahead and download CSF

```
cd /usr/src/
```

```
wget https://download.configserver.com/csf.tgz
```

- The next step is to extract the downloaded tar archive and run the install script:

```
tar -xzf csf.tgz
cd csf
sh install.sh
```

# Configure CSF

- CentOS 7 has a default firewall application called "firewalld". You have to stop firewalld and remove it from the startup.

Stop firewalld:

```
systemctl stop firewalld
```

and disable it:

```
systemctl disable firewalld
```

- Now we can enable CSF disabling the default TESTING state:

```
cd /etc/csf/
```

next open the `csf.conf` file using your favourite text editor - vim, vi ,nano and etc

```
vim csf.conf
```

On line 11 you will see that the "TESTING " is set to "1" , make sure this is set to "0"

```
TESTING = "0"
```

- Now we can start and enable both `lfd` and `csf`

```
`systemctl start csf
systemctl start lfd

systemctl enable csf
systemctl enable lfd
```

- As mentioned CSF can be configured by editing its configuration file csf.conf in `/etc/csf`:

The less access there is to your VPS, the more secure your server is. However, not all ports can be closed as the clients must be able to use your services.

The ports opened by default are the following:

```
TCP_IN = "20,21,22,25,53,80,110,143,443,465,587,993,995"

TCP_OUT = "20,21,22,25,53,80,110,113,443"

UDP_IN = "20,21,53"

UDP_OUT = "20,21,53,113,123"
```

It is possible that you are not using all of these services, so you can close the ports that are not used. I would recommend closing all ports (removing port number form the list), and then adding the ports you need.

Below are port sets that should be opened if you are running the listed service:

On any server:

```
TCP_IN: 22,53
TCP_OUT: 22,53,80,113,443
UPD_IN: 53
UPD_OUT: 53,113,123
```

- CSF offers a vast number of different options in its configuration files. Some of the most commonly used settings are explained below.

**ICMP_IN** Setting ICMP_IN to 1 allows ping to your server and 0 refuses are such requests. If you are hosting any public services, it is recommended to allow ICMP requests, as these can be used to determine whether or not your service is available.

**ICMP*IN*LIMIT** Sets the number of ICMP (ping) requests allowed from one IP address within a specified amount of time. There is usually no need to change the default value (1/s)

**DENY*IP*LIMIT** Sets the number of blocked IP addresses CSF keeps track of. It is recommended to limit the number of denied IP addresses as having too many blocks may slow down the server performance.

**DENY*TEMP*IP_LIMIT** Same as above, but for temporary IP address blocks.

**PACKET_FILTER** Filter invalid, unwanted and illegal packets.

**SYNFLOOD, SUNFLOOD*RATE* and SYNFLOOD*BURST** This offers protection against SYN flood attacks. This slows down the initialization of every connection, so you should enable this only if you know that your server is under attack.

- Applying the Changes

Whenever you are altering the settings in csf.conf, you should save the files and restart CSF in order for the changes to take effect.

Once you are ready with the configuration, close and save the file.

After this, you should apply the changes by restarting CSF with command:

```
csf -r
```

Additionally CSF can be configured to track processes in order to detect suspicious processes or open network ports, and send an email to the system administrator if any is detected. This may help you to identify and stop a possible exploit on your VPS. In order to set this open the `csf.conf` file and change the value from 0 to 1 for the following features:

```
LF_SSH_EMAIL_ALERT = "1"
LF_SU_EMAIL_ALERT = "1"
```

also change the email address:

```
LF_ALERT_TO = "mymail@mydomain.tld"
```

# CSF usage

- In order to start the Firewall:

```
csf -s
```

- In order to flush or stop the Firewall rules:

```
csf -f
```

- In order to reload the current rules:

```
csf -r
```

- In order to allow IP and add it to the `/etc/csf/csf.allow`

```
csf -a 1.1.1.1
```

- In order to deny an IP and add it to the `/etc/csf/csf.deny`

```
csf -d 1.1.1.1
```

- In order to deny an IP address temporary for an hour:

```
csf -td 1.1.1.1
```

CSF provide an option to allow and deny access by country using the CIDR (Country Code).

In order to list more than one country you just need to separate them using comas:

```
CC_DENY = "AB,CD,EF"
```

You may find a list of ISO 3166-1 alpha-2 codes at [https://en.wikipedia.org/wiki/ISO_3166-1_alpha-2](https://en.wikipedia.org/wiki/ISO_3166-1_alpha-2)

# Conclusion

CSF is an application firewall for iptables provided for Linux servers which is easy to install and operate and on top of that comes with a lot of handy build-in options which you can use to make sure the security on your droplet is properly configured.

# zimbra last class - zimbra logfile rotation , spam filter using & transport

## log file rotation

https://www.networkworld.com/article/3218728/how-log-rotation-works-with-logrotate.html

How log rotation works with logrotate | Network World

--

## Transport for Zimbra 8.8.12

================

Edit the transport file :

vim /opt/zimbra/common/conf/transport

add the smart relay for specific domain :

example.com        :[X.X.X.X]

login to zimbra user by :

su - zimbra
Run below command to generate binary :

postmap /opt/zimbra/common/conf/transport

and finally, run below zommand to update zimbra :

zmprov ms 'zmhostname' zimbraMtaTransportMaps
"lmdb:/opt/zimbra/common/conf/transport,proxy:ldap:/opt/zimbra/conf/ldap-transport.cf"