MEMBANGUN LOKAL MAIL SERVER (CENTOS7,BIND9, ZIMBRA8)

Note : Centos 7.

ns1 / 192.168.100.31

ns2 / 192.168.100.32
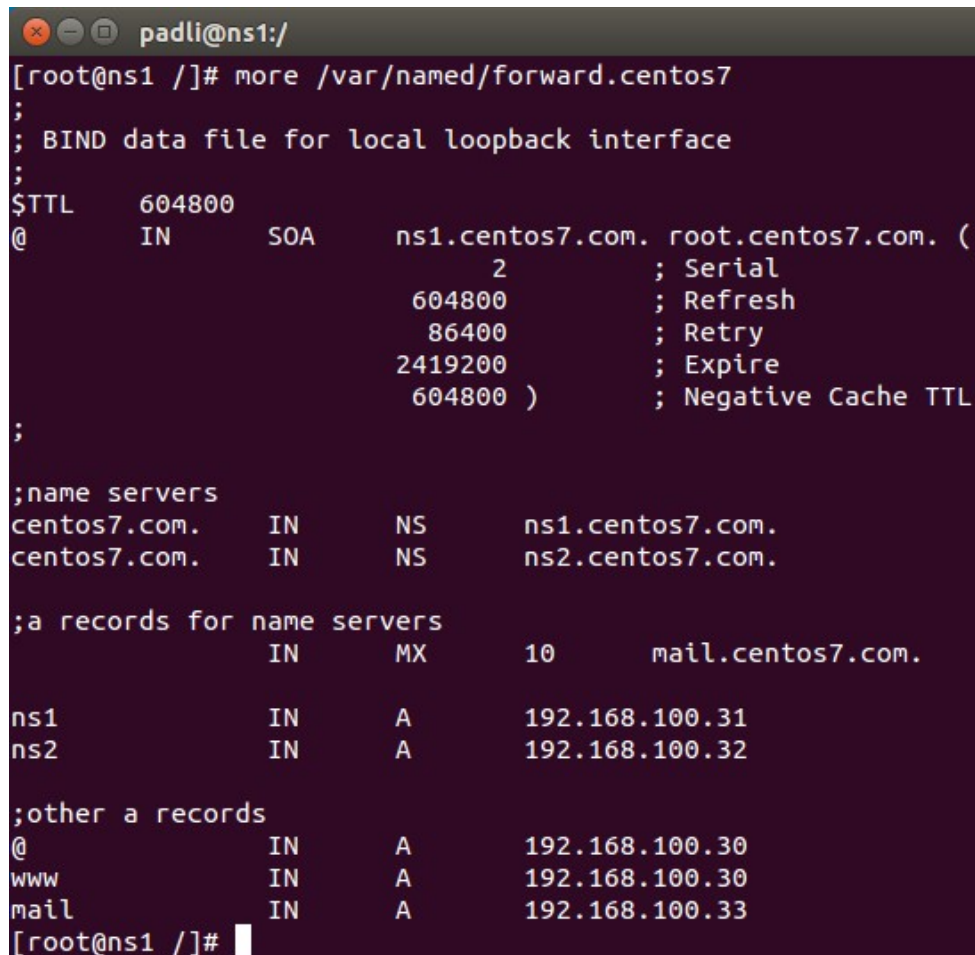
www / 192.168.100.30

mail / 192.168.100.33

client 1 / 192.168.100.7 || client 2 / 192.168.100.250

NS1

1. config ns1 like this.

```
padli@ns1:/
[root@ns1 /]# more /var/named/forward.centos7
;
; BIND data file for local loopback interface
;
$TTL    604800
@       IN      SOA     ns1.centos7.com. root.centos7.com. (
                              2         ; Serial
                         604800         ; Refresh
                          86400         ; Retry
                        2419200         ; Expire
                         604800 )       ; Negative Cache TTL
;

;name servers
centos7.com.    IN      NS      ns1.centos7.com.
centos7.com.    IN      NS      ns2.centos7.com.

;a records for name servers
                IN      MX      10      mail.centos7.com.

ns1             IN      A       192.168.100.31
ns2             IN      A       192.168.100.32

;other a records
@               IN      A       192.168.100.30
www             IN      A       192.168.100.30
mail            IN      A       192.168.100.33
[root@ns1 /]#
```

MAIL

2. config mail server like this.

```
padli@mail:/
[root@mail /]# more /etc/hostname
mail
[root@mail /]# more /etc/hosts
127.0.0.1    localhost localhost.localdomain localhost4 localhost4.localdomain4
#::1         localhost localhost.localdomain localhost6 localhost6.localdomain6
192.168.100.33  mail.centos7.com        mail
[root@mail /]# ifconfig
ens18: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.100.33  netmask 255.255.255.0  broadcast 192.168.100.255
        inet6 fe80::dc45:d8ff:fe4b:70fd  prefixlen 64  scopeid 0x20<link>
        ether de:45:d8:4b:70:fd  txqueuelen 1000  (Ethernet)
        RX packets 62626  bytes 47980502 (45.7 MiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 53306  bytes 31471841 (30.0 MiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 0  (Local Loopback)
        RX packets 106012  bytes 147095697 (140.2 MiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 106012  bytes 147095697 (140.2 MiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

[root@mail /]# more /etc/resolv.conf
nameserver 127.0.0.1
# Generated by NetworkManager
nameserver 192.168.100.31
nameserver 192.168.100.32
nameserver 8.8.8.8
[root@mail /]#
```

3. disable selinux.

```
padli@mail:/
[root@mail /]# more /etc/selinux/config

# This file controls the state of SELinux on the system.
# SELINUX= can take one of these three values:
#     enforcing - SELinux security policy is enforced.
#     permissive - SELinux prints warnings instead of enforcing.
#     disabled - No SELinux policy is loaded.
SELINUX=disabled
# SELINUXTYPE= can take one of three two values:
#     targeted - Targeted processes are protected,
#     minimum - Modification of targeted policy. Only selected processes are pro
tected.
#     mls - Multi Level Security protection.
SELINUXTYPE=targeted


[root@mail /]#
```

4. disable firewalld & postfix.

```
padli@mail:/
[root@mail /]# systemctl status firewalld
firewalld.service - firewalld - dynamic firewall daemon
   Loaded: loaded (/usr/lib/systemd/system/firewalld.service; disabled)
   Active: inactive (dead)

[root@mail /]# systemctl status postfix
postfix.service - Postfix Mail Transport Agent
   Loaded: loaded (/usr/lib/systemd/system/postfix.service; disabled)
   Active: inactive (dead)

[root@mail /]#
```

5. add epel repo.

```
padli@mail:/
[root@mail /]# yum install epel-release.noarch
```

6. update.

```
padli@mail:/
[root@mail /]# yum -y update
```

7. install dependency pack.

```
padli@mail:/
[root@mail /]# yum install nptl nmap-ncat sudo-1.8.6p7-13 libidn-1.28-3 gmp-6.0.
0-11  libaio-0.3.109-12 gmp-6.0.0-11 libaio-0.3.109-12 libstdc++-4.8.3-9  unzip-
6.0-13 perl-core perl-5.16.3 sysstat sqlite unzip
```

8. get zimbra8.

```
padli@mail:/home/padli
[root@mail padli]# wget https://files.zimbra.com/downloads/8.6.0_GA/zcs-8.6.0_GA
_1153.RHEL7_64.20141215151110.tgz
```

9. extract.

```
padli@mail:/home/padli
[root@mail padli]# tar zxvf zcs-8.6.0_GA_1153.RHEL7_64.20141215151110.tgz
```

10. install.

```
padli@mail:/home/padli/zcs-8.6.0_GA_1153.RHEL7_64.20141215151110
[root@mail padli]# ls
zcs-8.6.0_GA_1153.RHEL7_64.20141215151110
zcs-8.6.0_GA_1153.RHEL7_64.20141215151110.tgz
[root@mail padli]# cd zcs-8.6.0_GA_1153.RHEL7_64.20141215151110
[root@mail zcs-8.6.0_GA_1153.RHEL7_64.20141215151110]# ./install.sh --platform-o
verride
```

```
    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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  http://www.zimbra.com/license/zimbra-public-eula-2-5.html



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

```
Found zimbra-memcached
Found zimbra-proxy


Select the packages to install

Install zimbra-ldap [Y]

Install zimbra-logger [Y]

Install zimbra-mta [Y]

Install zimbra-dnscache [Y]

Install zimbra-snmp [Y]

Install zimbra-store [Y]

Install zimbra-apache [Y]

Install zimbra-spell [Y]

Install zimbra-memcached [Y]

Install zimbra-proxy [Y]
```

```
Install zimbra-spell [Y]

Install zimbra-memcached [Y]

Install zimbra-proxy [Y]
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-dnscache
    zimbra-snmp
    zimbra-store
    zimbra-apache
    zimbra-spell
    zimbra-memcached
    zimbra-proxy

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

```
4.rpm...done
    zimbra-mta......zimbra-mta-8.6.0_GA_1153.RHEL7_64-20141215151110.x86_64.rpm.
..done
    zimbra-dnscache......zimbra-dnscache-8.6.0_GA_1153.RHEL7_64-20141215151110.x
86_64.rpm...done
    zimbra-snmp......zimbra-snmp-8.6.0_GA_1153.RHEL7_64-20141215151110.x86_64.rp
m...done
    zimbra-store......zimbra-store-8.6.0_GA_1153.RHEL7_64-20141215151110.x86_64.
rpm...done
    zimbra-apache......zimbra-apache-8.6.0_GA_1153.RHEL7_64-20141215151110.x86_6
4.rpm...done
    zimbra-spell......zimbra-spell-8.6.0_GA_1153.RHEL7_64-20141215151110.x86_64.
rpm...done
    zimbra-memcached......zimbra-memcached-8.6.0_GA_1153.RHEL7_64-20141215151110
.x86_64.rpm...done
    zimbra-proxy......zimbra-proxy-8.6.0_GA_1153.RHEL7_64-20141215151110.x86_64.
rpm...done
Operations logged to /tmp/zmsetup07292015-150616.log
Installing LDAP configuration database...done.
Setting defaults...

DNS ERROR resolving MX for mail.centos7.com
It is suggested that the domain name have an MX record configured in DNS
Change domain name? [Yes]
Create domain: [mail.centos7.com] centos7.com
```

```
        +Web server HTTP port:                    8080
        +Web server HTTPS port:                   8443
        +Web server mode:                         https
        +IMAP server port:                        7143
        +IMAP server SSL port:                    7993
        +POP server port:                         7110
        +POP server SSL port:                     7995
        +Use spell check server:                  yes
        +Spell server URL:                        http://mail.centos7.com:7780/aspe
ll.php
        +Enable version update checks:            TRUE
        +Enable version update notifications:     TRUE
        +Version update notification email:       admin@centos7.com
        +Version update source email:             admin@centos7.com
        +Install mailstore (service webapp):      yes
        +Install UI (zimbra,zimbraAdmin webapps): yes

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

Address unconfigured (**) items  (? - help) 7
```

```
** 4) Admin Password                             UNSET
   5) Anti-virus quarantine user:                virus-quarantine.svj5vbsn@centos7
.com
   6) Enable automated spam training:            yes
   7) Spam training user:                        spam._bil3nm3@centos7.com
   8) Non-spam(Ham) training user:               ham.zncbn2xe@centos7.com
   9) SMTP host:                                 mail.centos7.com
  10) Web server HTTP port:                      8080
  11) Web server HTTPS port:                     8443
  12) Web server mode:                           https
  13) IMAP server port:                          7143
  14) IMAP server SSL port:                      7993
  15) POP server port:                           7110
  16) POP server SSL port:                       7995
  17) Use spell check server:                    yes
  18) Spell server URL:                          http://mail.centos7.com:7780/aspe
ll.php
  19) Enable version update checks:              TRUE
  20) Enable version update notifications:       TRUE
  21) Version update notification email:         admin@centos7.com
  22) Version update source email:               admin@centos7.com
  23) Install mailstore (service webapp):        yes
  24) Install UI (zimbra,zimbraAdmin webapps):   yes

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

```
     7) Spam training user:                      spam._bil3nm3@centos7.com
     8) Non-spam(Ham) training user:            ham.zncbn2xe@centos7.com
     9) SMTP host:                              mail.centos7.com
    10) Web server HTTP port:                   8080
    11) Web server HTTPS port:                  8443
    12) Web server mode:                        https
    13) IMAP server port:                       7143
    14) IMAP server SSL port:                   7993
    15) POP server port:                        7110
    16) POP server SSL port:                    7995
    17) Use spell check server:                 yes
    18) Spell server URL:                       http://mail.centos7.com:7780/aspe
ll.php
    19) Enable version update checks:           TRUE
    20) Enable version update notifications:    TRUE
    21) Version update notification email:      admin@centos7.com
    22) Version update source email:            admin@centos7.com
    23) Install mailstore (service webapp):     yes
    24) Install UI (zimbra,zimbraAdmin webapps): yes

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

Password for admin@centos7.com (min 6 characters): [fXW6m1Sx] raisa
Minimum length of 6 characters!
Password for admin@centos7.com (min 6 characters): [fXW6m1Sx] raisa2015
```

```
     4) Admin Password                          set
     5) Anti-virus quarantine user:             virus-quarantine.svj5vbsn@centos7
.com
     6) Enable automated spam training:         yes
     7) Spam training user:                     spam._bil3nm3@centos7.com
     8) Non-spam(Ham) training user:            ham.zncbn2xe@centos7.com
     9) SMTP host:                              mail.centos7.com
    10) Web server HTTP port:                   8080
    11) Web server HTTPS port:                  8443
    12) Web server mode:                        https
    13) IMAP server port:                       7143
    14) IMAP server SSL port:                   7993
    15) POP server port:                        7110
    16) POP server SSL port:                    7995
    17) Use spell check server:                 yes
    18) Spell server URL:                       http://mail.centos7.com:7780/aspe
ll.php
    19) Enable version update checks:           TRUE
    20) Enable version update notifications:    TRUE
    21) Version update notification email:      admin@centos7.com
    22) Version update source email:            admin@centos7.com
    23) Install mailstore (service webapp):     yes
    24) Install UI (zimbra,zimbraAdmin webapps): yes

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

```
  21) Version update notification email:      admin@centos7.com
  22) Version update source email:            admin@centos7.com
  23) Install mailstore (service webapp):     yes
  24) Install UI (zimbra,zimbraAdmin webapps): yes

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

Main menu

   1) Common Configuration:
   2) zimbra-ldap:                            Enabled
   3) zimbra-logger:                          Enabled
   4) zimbra-mta:                             Enabled
   5) zimbra-dnscache:                        Enabled
   6) zimbra-snmp:                            Enabled
   7) zimbra-store:                           Enabled
   8) zimbra-spell:                           Enabled
   9) zimbra-proxy:                           Enabled
  10) 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
```

```
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-dnscache:                        Enabled
   6) zimbra-snmp:                            Enabled
   7) zimbra-store:                           Enabled
   8) zimbra-spell:                           Enabled
   9) zimbra-proxy:                           Enabled
  10) 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]
Save config in file: [/opt/zimbra/config.11909]
Saving config in /opt/zimbra/config.11909...done.
The system will be modified - continue? [No] yes
```

```
        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 (8.6.0_GA_1153_RHEL7_64)
        The ADMIN EMAIL ADDRESS created (admin@centos7.com)

Notify Zimbra of your installation? [Yes] no
Notification skipped
Setting up zimbra crontab...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 (8.6.0_GA_1153_RHEL7_64)
        The ADMIN EMAIL ADDRESS created (admin@centos7.com)

Notify Zimbra of your installation? [Yes] no
Notification skipped
Setting up zimbra crontab...done.


Moving /tmp/zmsetup07292015-150616.log to /opt/zimbra/log


Configuration complete - press return to exit
```

11. enable & restart crond.

```
padli@mail:/
[root@mail /]# systemctl enable crond
[root@mail /]# systemctl restart crond
[root@mail /]#
```

12. uncomment this line.

```
padli@mail:/
# rsyslog configuration file

# For more information see /usr/share/doc/rsyslog-*/rsyslog_conf.html
# If you experience problems, see http://www.rsyslog.com/doc/troubleshoot.html

#### MODULES ####

# The imjournal module bellow is now used as a message source instead of imuxsoc
k.
$ModLoad imuxsock # provides support for local system logging (e.g. via logger c
ommand)
$ModLoad imjournal # provides access to the systemd journal
#$ModLoad imklog # reads kernel messages (the same are read from journald)
#$ModLoad immark  # provides --MARK-- message capability

# Provides UDP syslog reception
$ModLoad imudp
$UDPServerRun 514
"/etc/rsyslog.conf" 95L, 3448C
```

13. enable & restart rsyslog.

```
padli@mail:/
[root@mail /]# systemctl enable rsyslog
[root@mail /]# systemctl restart rsyslog
[root@mail /]#
```

14. setup log.

```
padli@mail:/
[root@mail /]# /opt/zimbra/libexec/zmsyslogsetup
```

15. update keys.

```
zimbra@mail:/
[root@mail /]# su zimbra
[zimbra@mail /]$ zmupdateauthkeys
Updating keys for mail.centos7.com
Fetching key for mail.centos7.com
Updating keys for mail.centos7.com
Updating /opt/zimbra/.ssh/authorized_keys
[zimbra@mail /]$
```

16. restart zimbra.

```
zimbra@mail:/
[zimbra@mail /]$ zmcontrol restart
```

17. cek status (if zmconfigd not running).

```
zimbra@mail:/
[zimbra@mail /]$ zmcontrol status
Host mail.centos7.com
        amavis                  Running
        antispam                Running
        antivirus               Running
        dnscache                Running
        ldap                    Running
        logger                  Running
        mailbox                 Running
        memcached               Running
        mta                     Running
        opendkim                Running
        proxy                   Running
        service webapp          Running
        snmp                    Running
        spell                   Running
        stats                   Running
        zimbra webapp           Running
        zimbraAdmin webapp      Running
        zimlet webapp           Running
        zmconfigd               Stopped
                zmconfigd is not running.
[zimbra@mail /]$
```

18. set off second line ipv6 on /etc/hosts.

```
zimbra@mail:/
[zimbra@mail /]$ more /etc/hosts
127.0.0.1    localhost localhost.localdomain localhost4 localhost4.localdomain4
#::1         localhost localhost.localdomain localhost6 localhost6.localdomain6
192.168.100.33  mail.centos7.com        mail
[zimbra@mail /]$ 
```

After that, cek again.

```
zimbra@mail:/
[zimbra@mail /]$ zmcontrol status
Host mail.centos7.com
        amavis                  Running
        antispam                Running
        antivirus               Running
        dnscache                Running
        ldap                    Running
        logger                  Running
        mailbox                 Running
        memcached               Running
        mta                     Running
        opendkim                Running
        proxy                   Running
        service webapp          Running
        snmp                    Running
        spell                   Running
        stats                   Running
        zimbra webapp           Running
        zimbraAdmin webapp      Running
        zimlet webapp           Running
        zmconfigd               Running
[zimbra@mail /]$ 
```

CLIENT 1 & 2

19. set client 1 & 2 like this.

```
padli@cavs: ~

padli@cavs:~$ ifconfig
eth0      Link encap:Ethernet  HWaddr 14:da:e9:ad:9f:bc
          inet addr:192.168.100.7  Bcast:192.168.100.255  Mask:255.255.255.0
          inet6 addr: fe80::16da:e9ff:fead:9fbc/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:111985 errors:0 dropped:0 overruns:0 frame:0
          TX packets:148906 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:85599149 (85.5 MB)  TX bytes:60204853 (60.2 MB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:348 errors:0 dropped:0 overruns:0 frame:0
          TX packets:348 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:32852 (32.8 KB)  TX bytes:32852 (32.8 KB)

padli@cavs:~$ more /etc/resolv.conf
# Dynamic resolv.conf(5) file for glibc resolver(3) generated by resolvconf(8)
#      DO NOT EDIT THIS FILE BY HAND -- YOUR CHANGES WILL BE OVERWRITTEN
nameserver 192.168.100.31
nameserver 192.168.100.32
padli@cavs:~$
```

```
root@raisa: /home/padli

root@raisa:/home/padli# ifconfig
eth1      Link encap:Ethernet  HWaddr 10:78:d2:3a:30:60
          inet addr:192.168.100.250  Bcast:192.168.100.255  Mask:255.255.255.0
          inet6 addr: fe80::1278:d2ff:fe3a:3060/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:634031 errors:0 dropped:5250 overruns:0 frame:0
          TX packets:305378 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:281279918 (281.2 MB)  TX bytes:38274048 (38.2 MB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:2806 errors:0 dropped:0 overruns:0 frame:0
          TX packets:2806 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:258196 (258.1 KB)  TX bytes:258196 (258.1 KB)

root@raisa:/home/padli# more /etc/resolv.conf
# Dynamic resolv.conf(5) file for glibc resolver(3) generated by resolvconf(8)
#      DO NOT EDIT THIS FILE BY HAND -- YOUR CHANGES WILL BE OVERWRITTEN
nameserver 192.168.100.31
nameserver 192.168.100.32
root@raisa:/home/padli#
```

20. login zimbra admin (client 1).
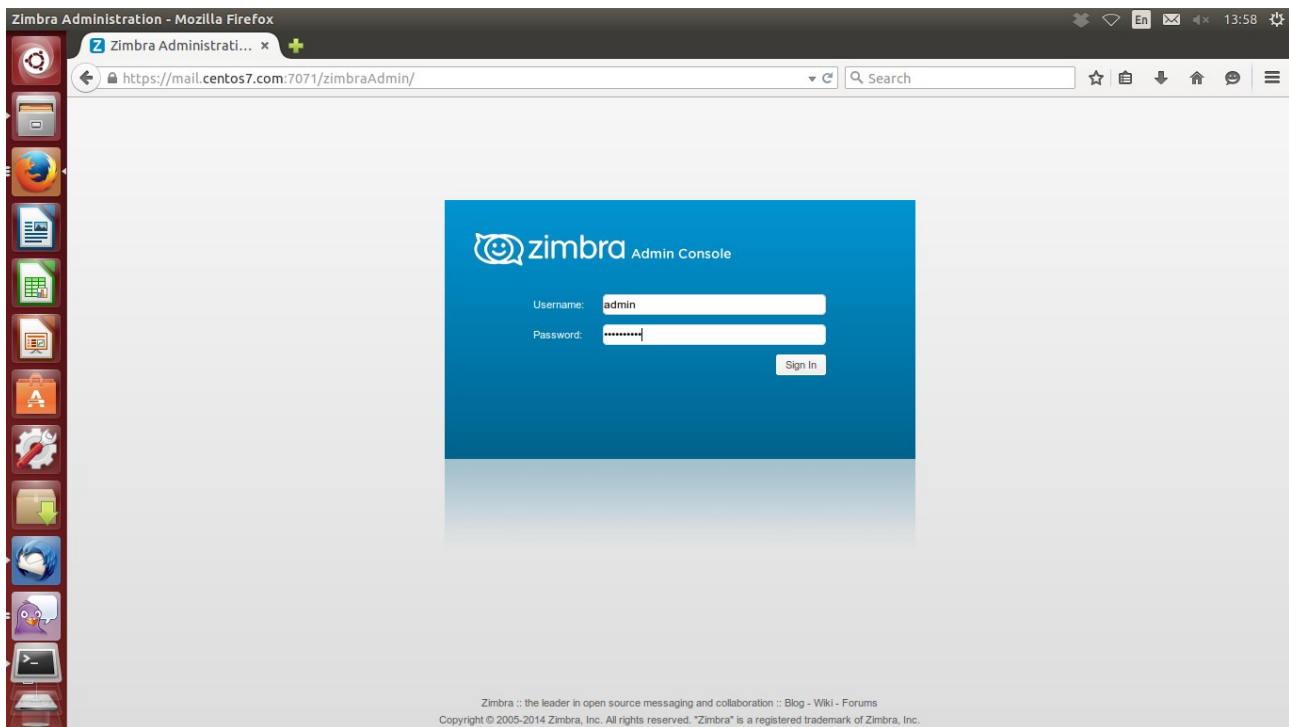
21. login zimbra admin (client 1).
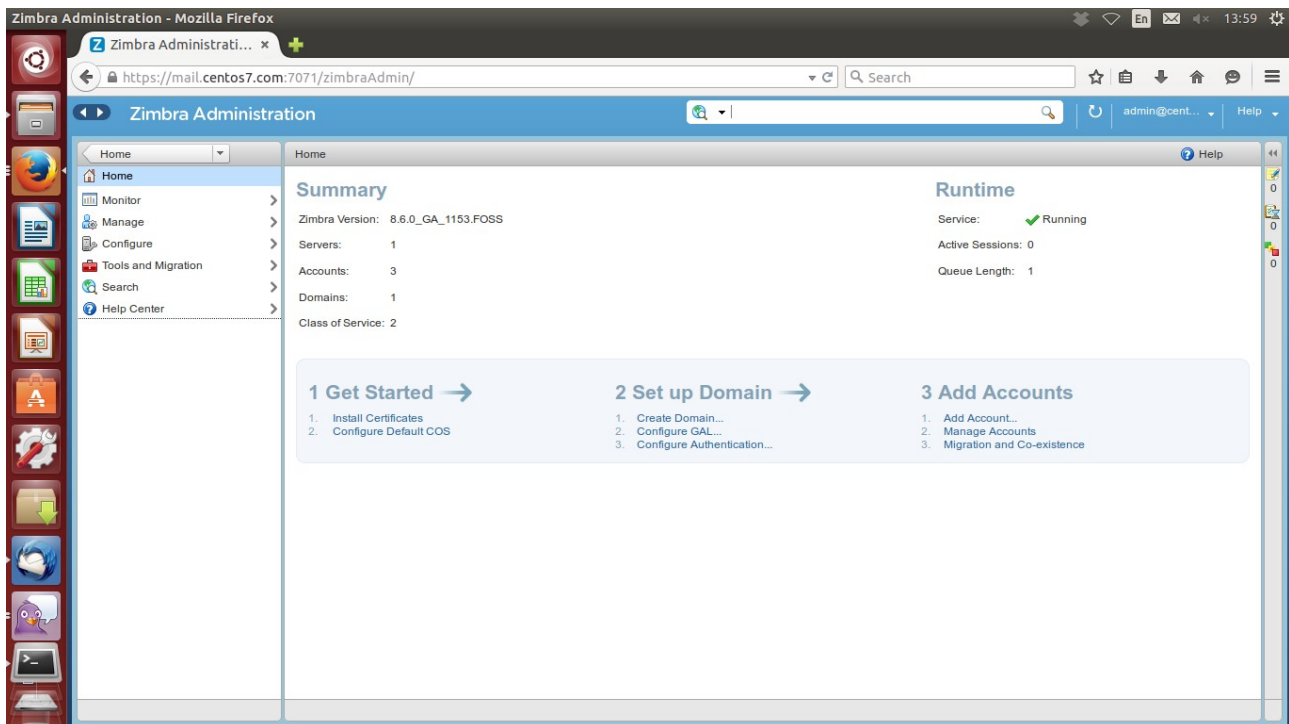
22. add 2 user (client 1).
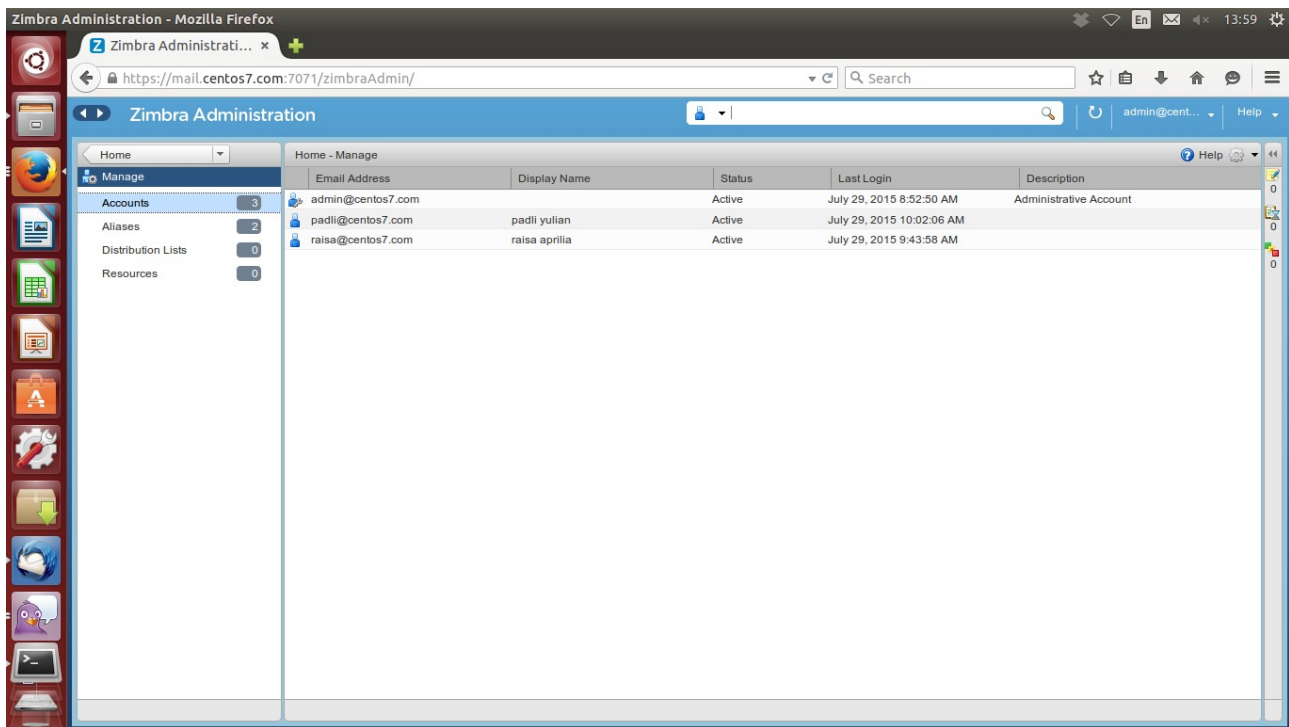
23. login user 1 (client 1).
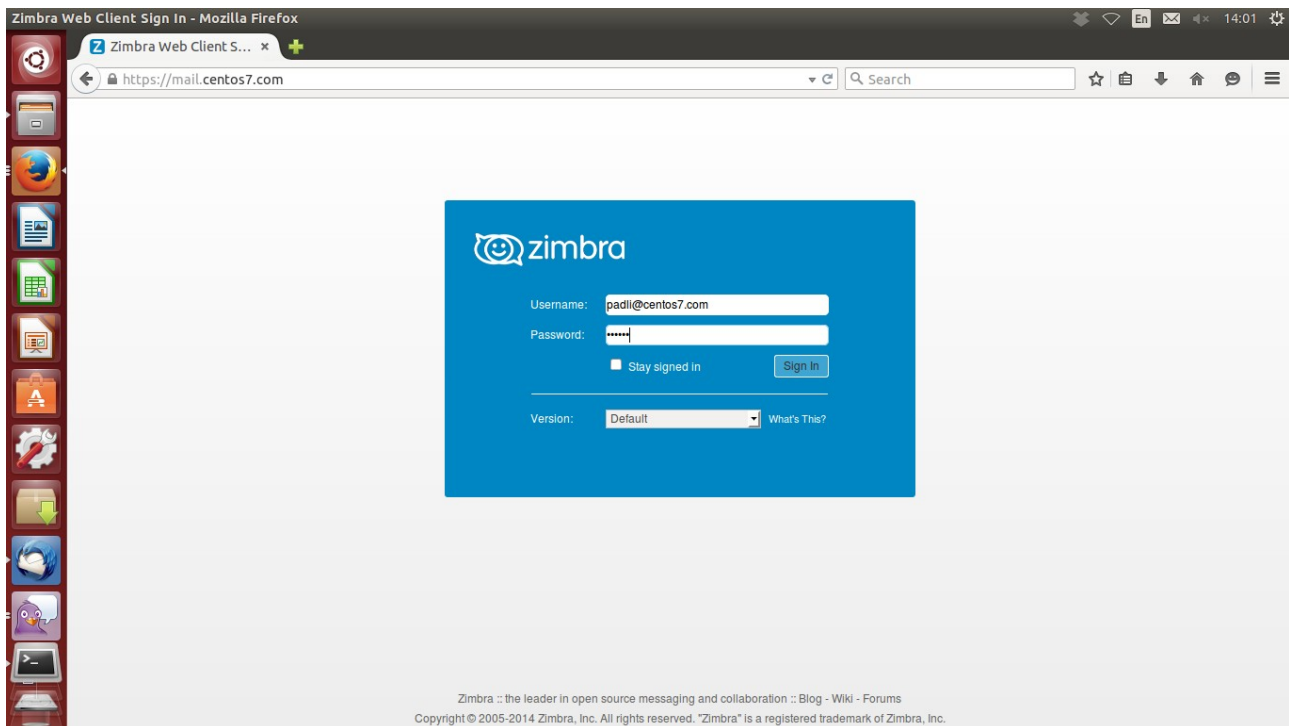
24. login user 1 (client 1).
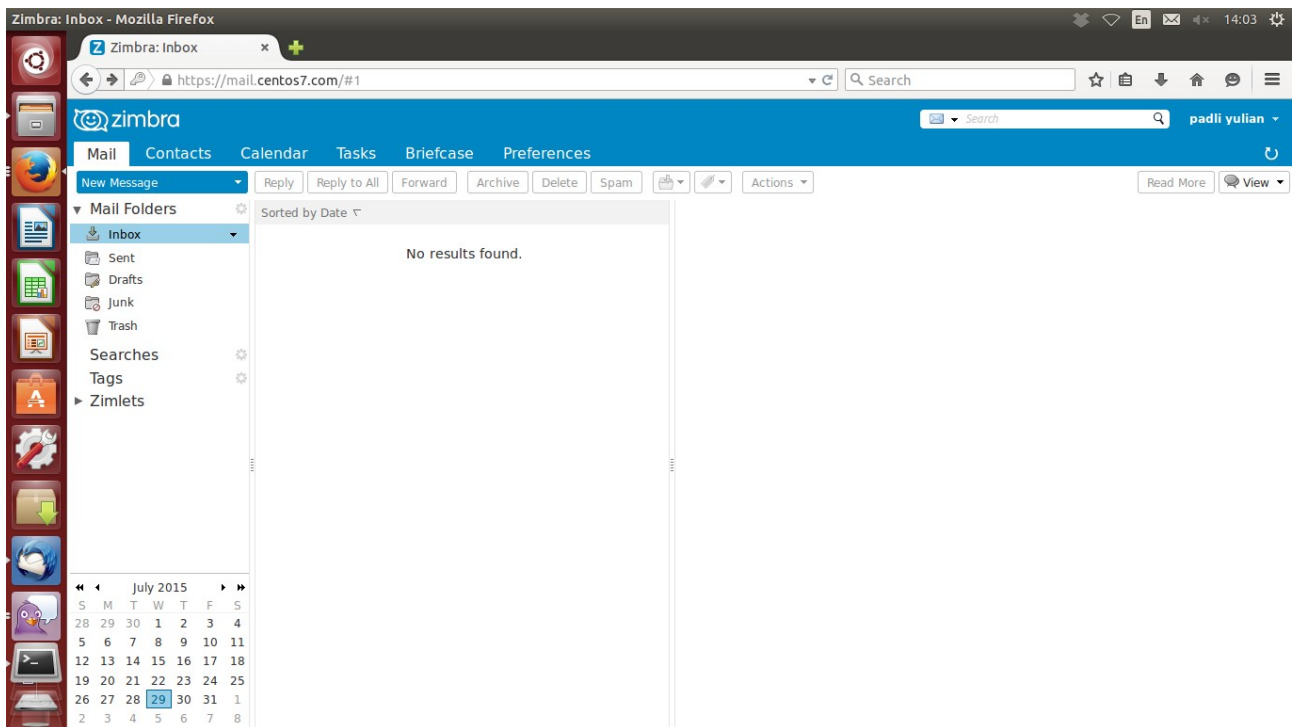
25. send message to user 2 (client 1).
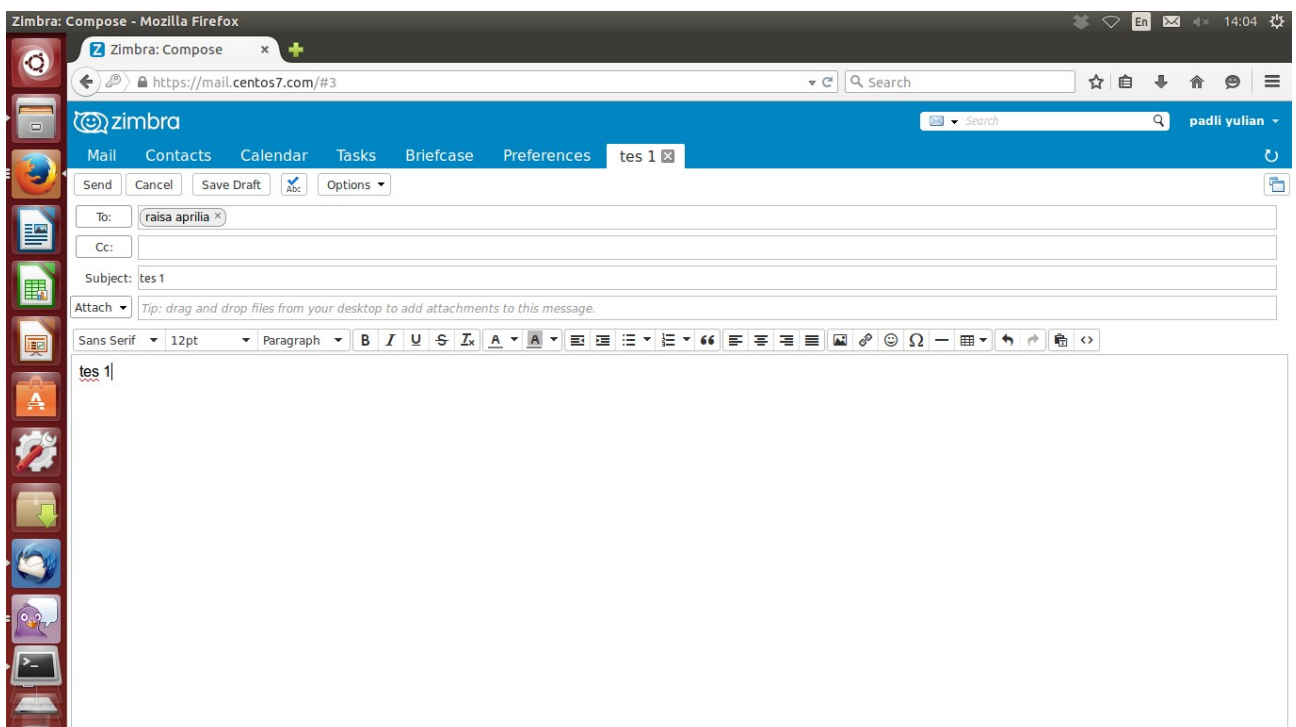
26. receive message from user 1 (client 2).
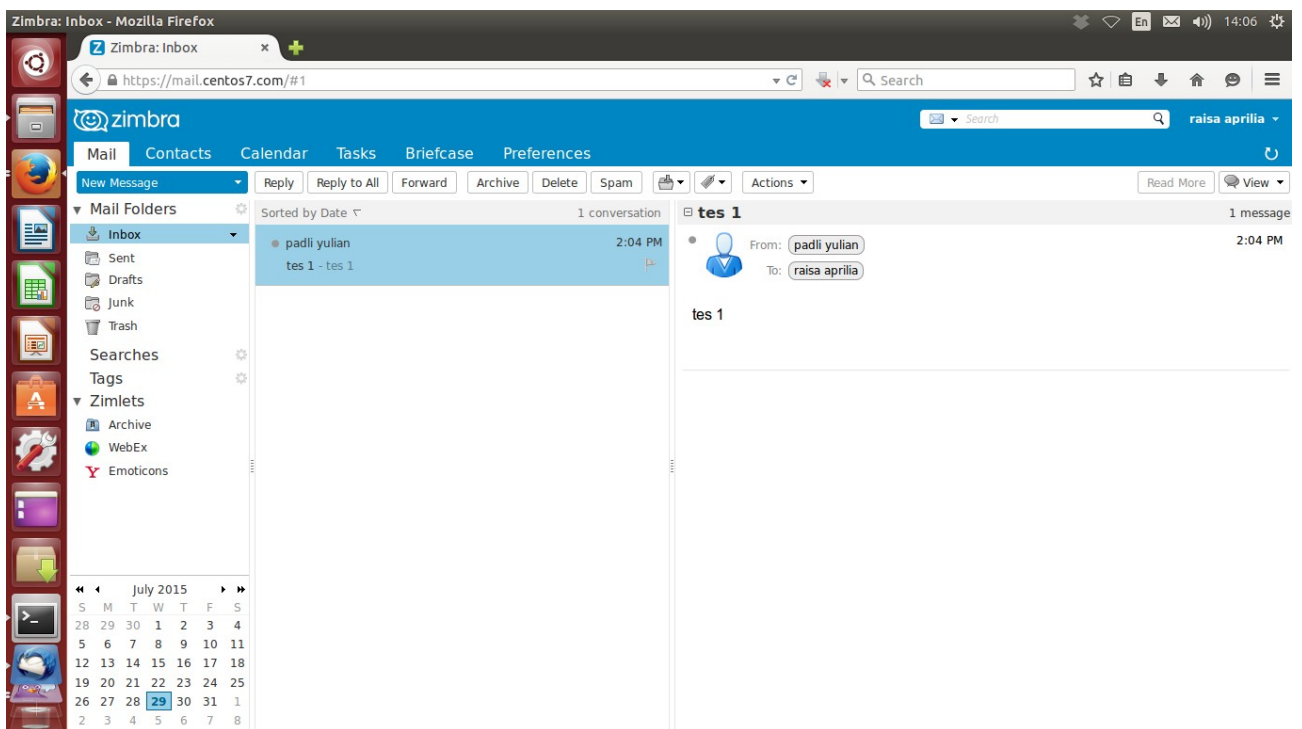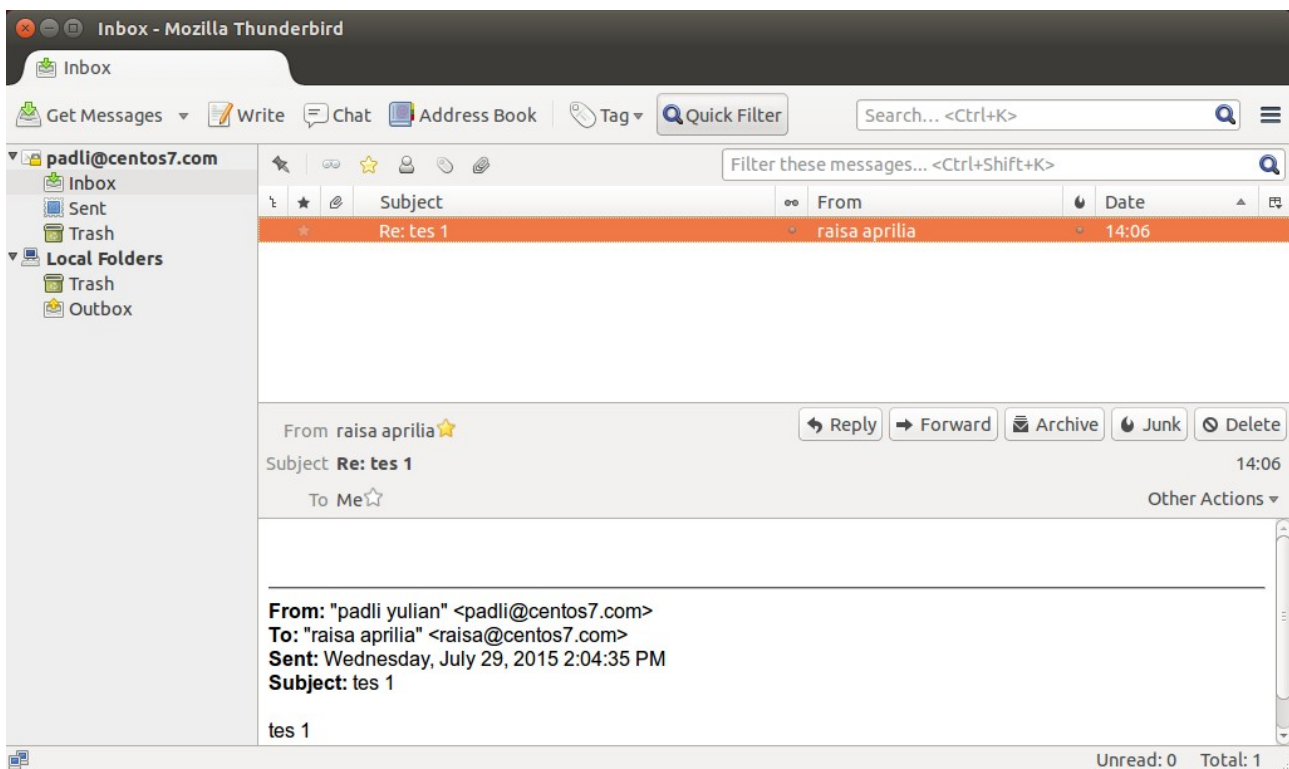

27. receive reply message from user 2 (client 1).
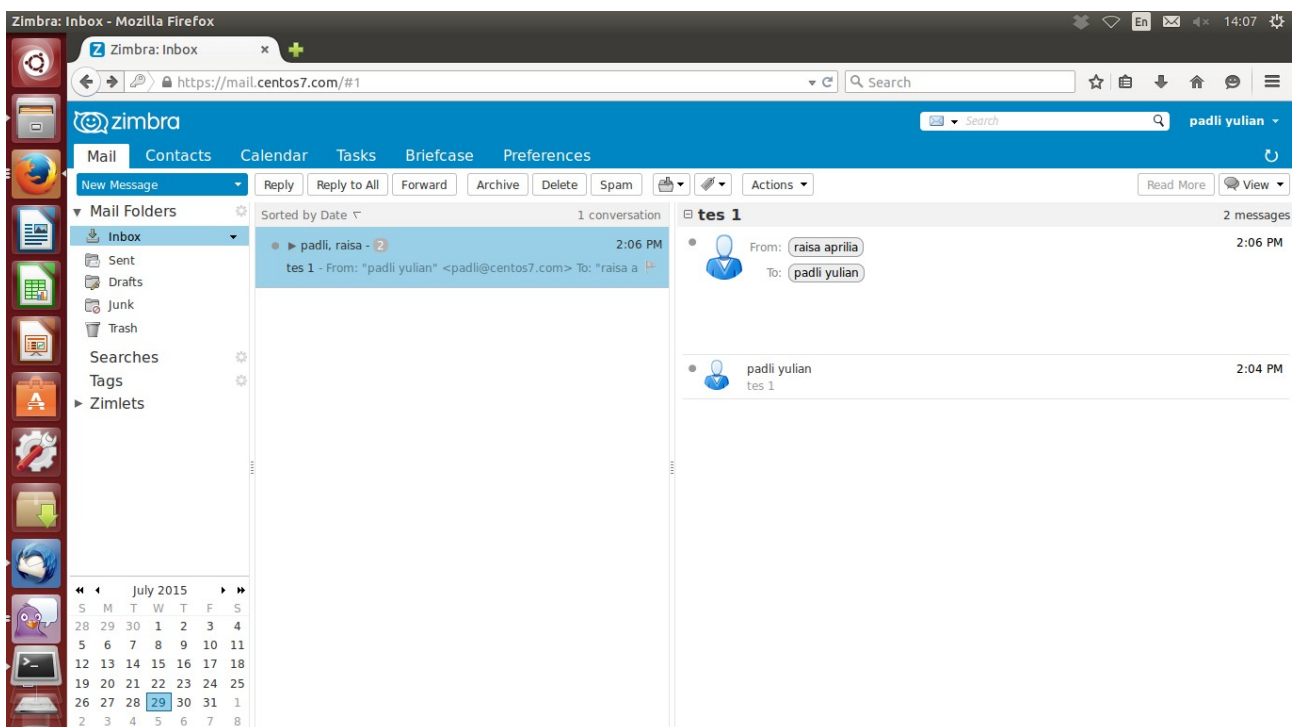
28. add user 1, try config thunderbird like this (client 1). (set user 2 too)
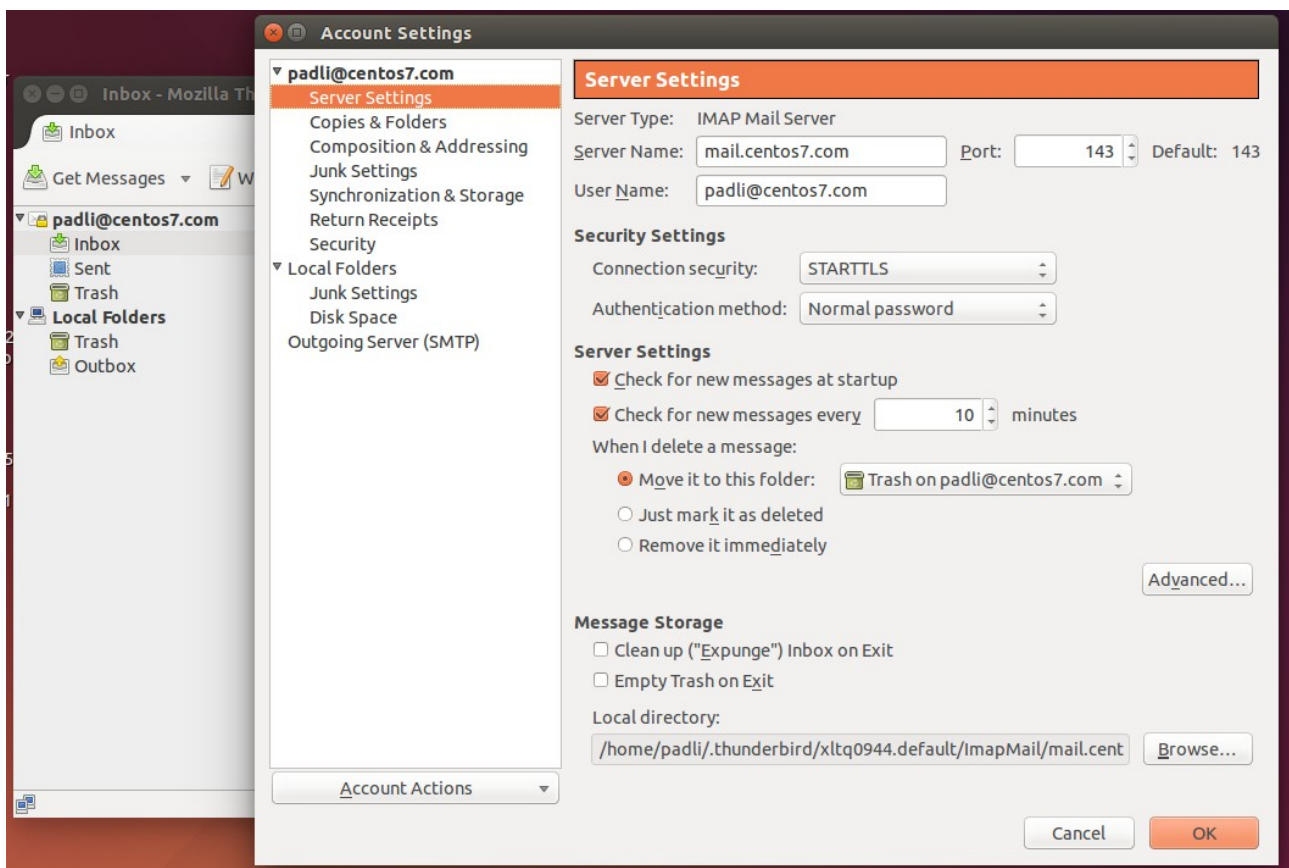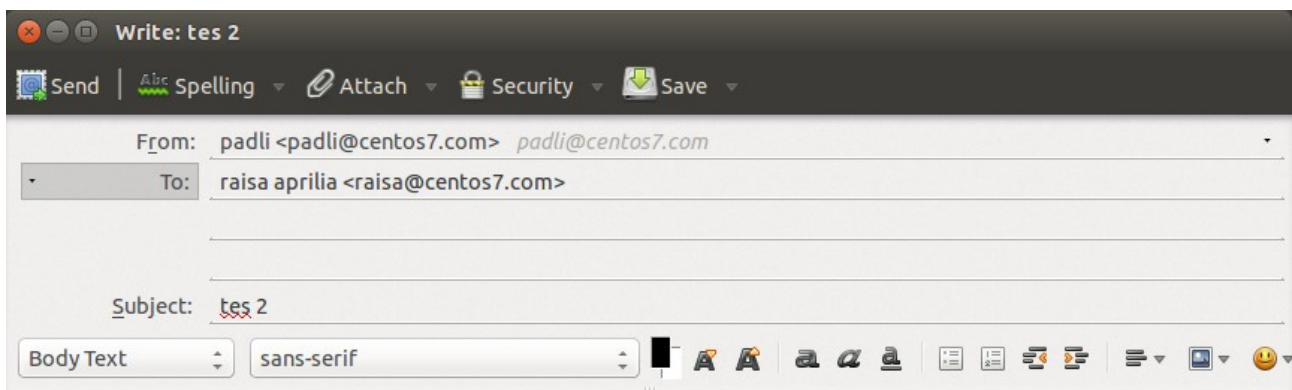
29. set outgoing, try config thunderbird like this (client 1). (set user 2 too)
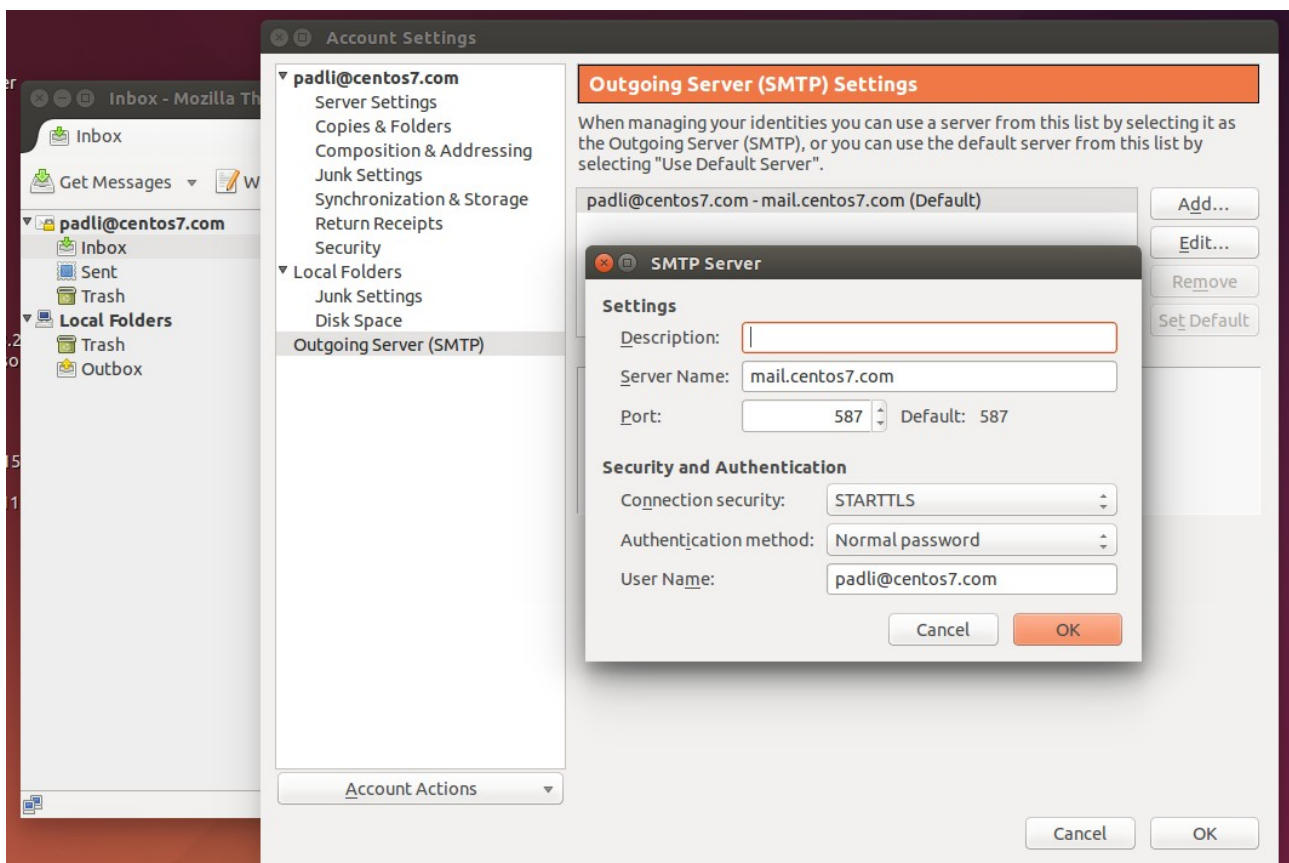
30. screen user 1 (client 1).

31. send message to user 2 (client 1).

32. cek send items (client 1).
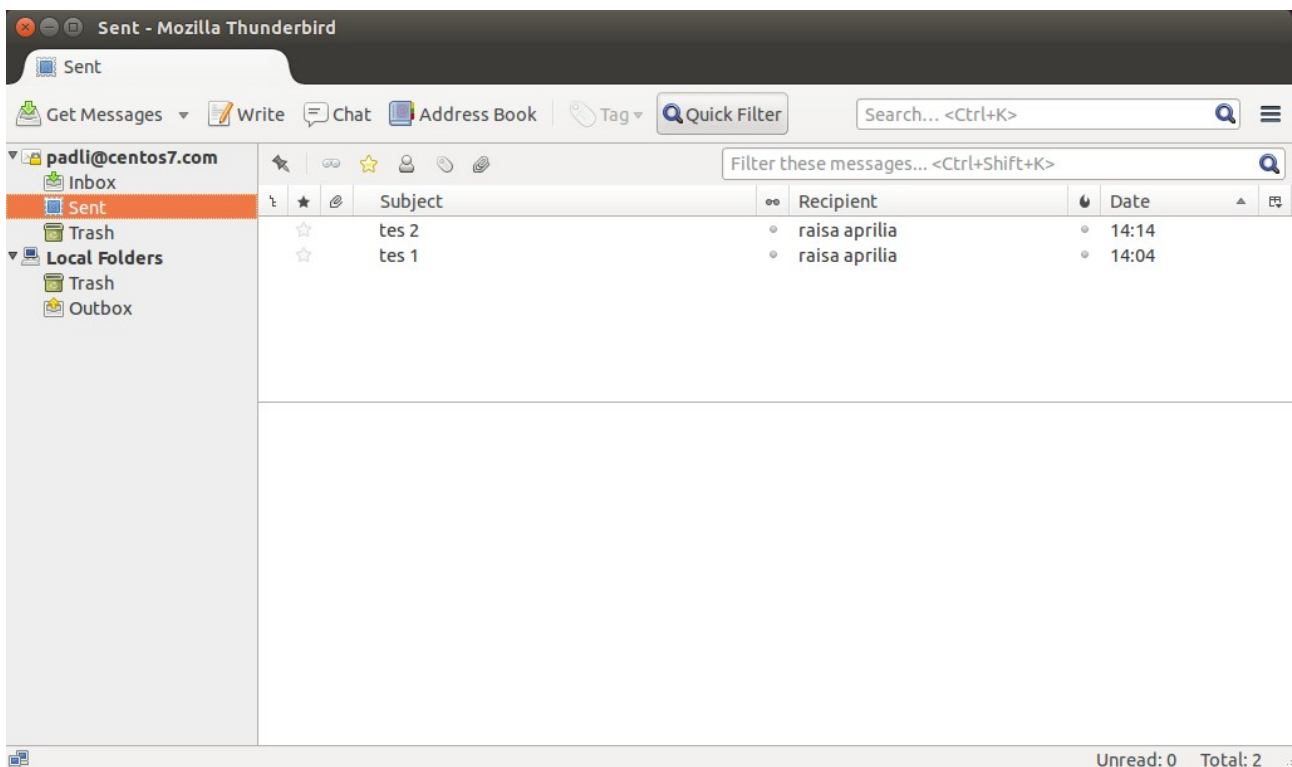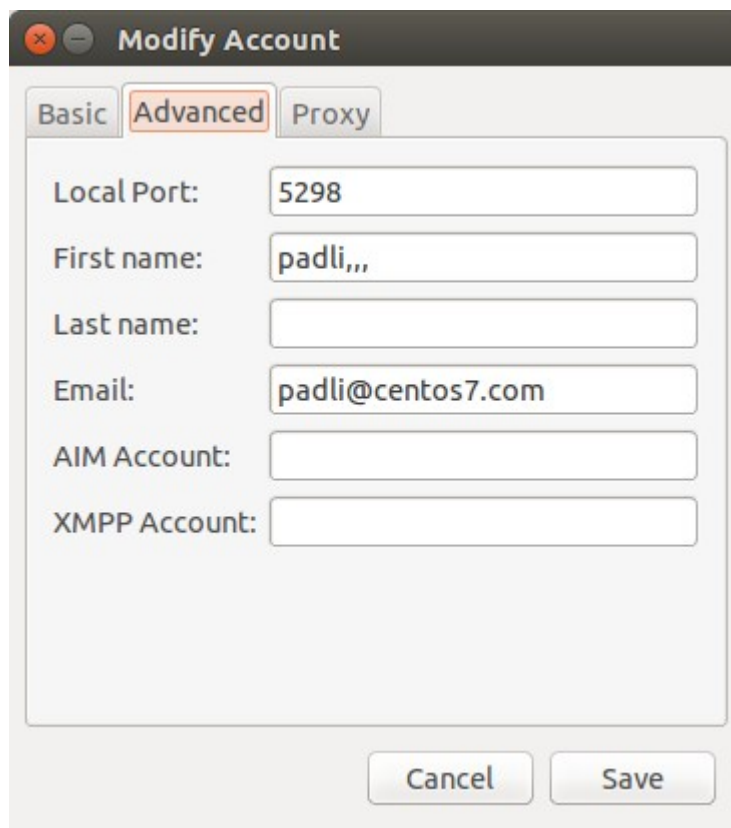
33. cek inbox from user 1 (client 2).
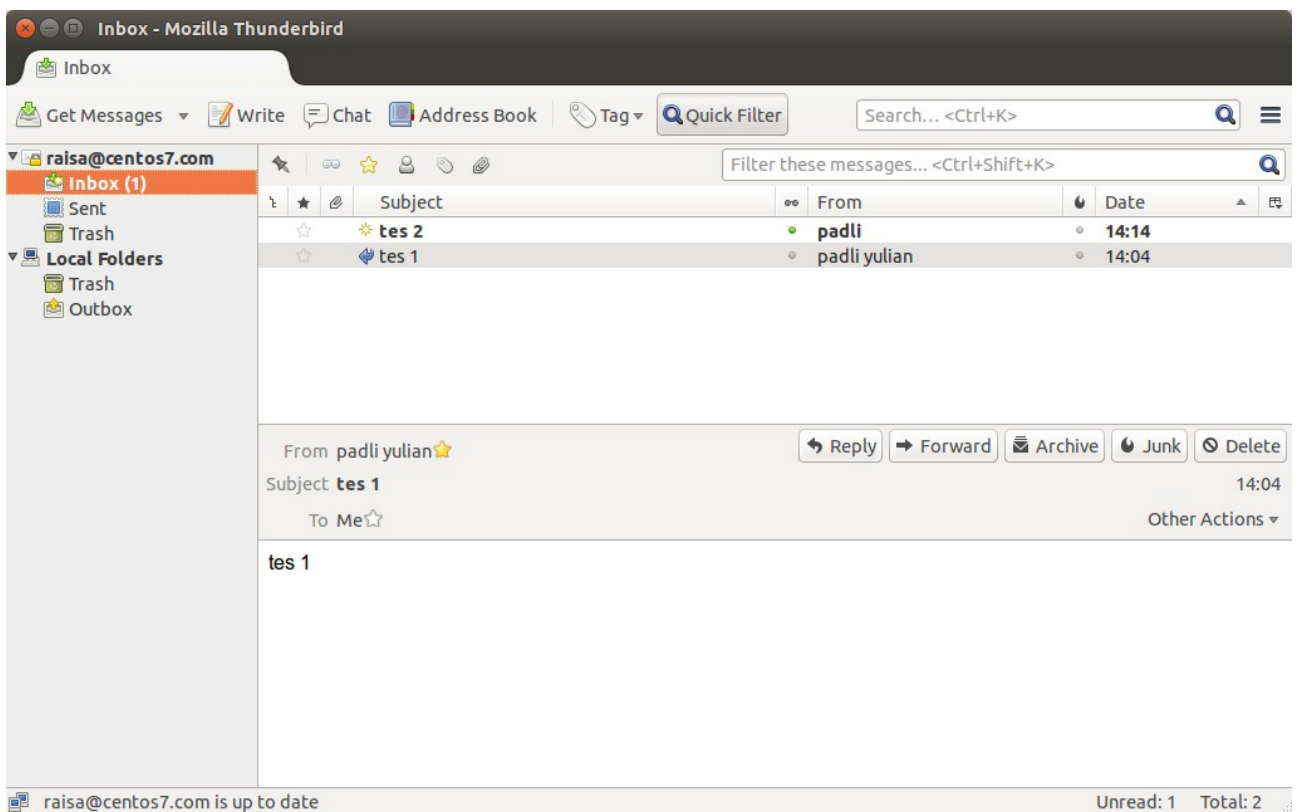
34. try config pidgin like this (client 1).

35. try config pidgin like this (client 1).

36. try config pidgin like this (client 2).

37. try config pidgin like this (client 2).

38. pidgin user 1 (client 1).
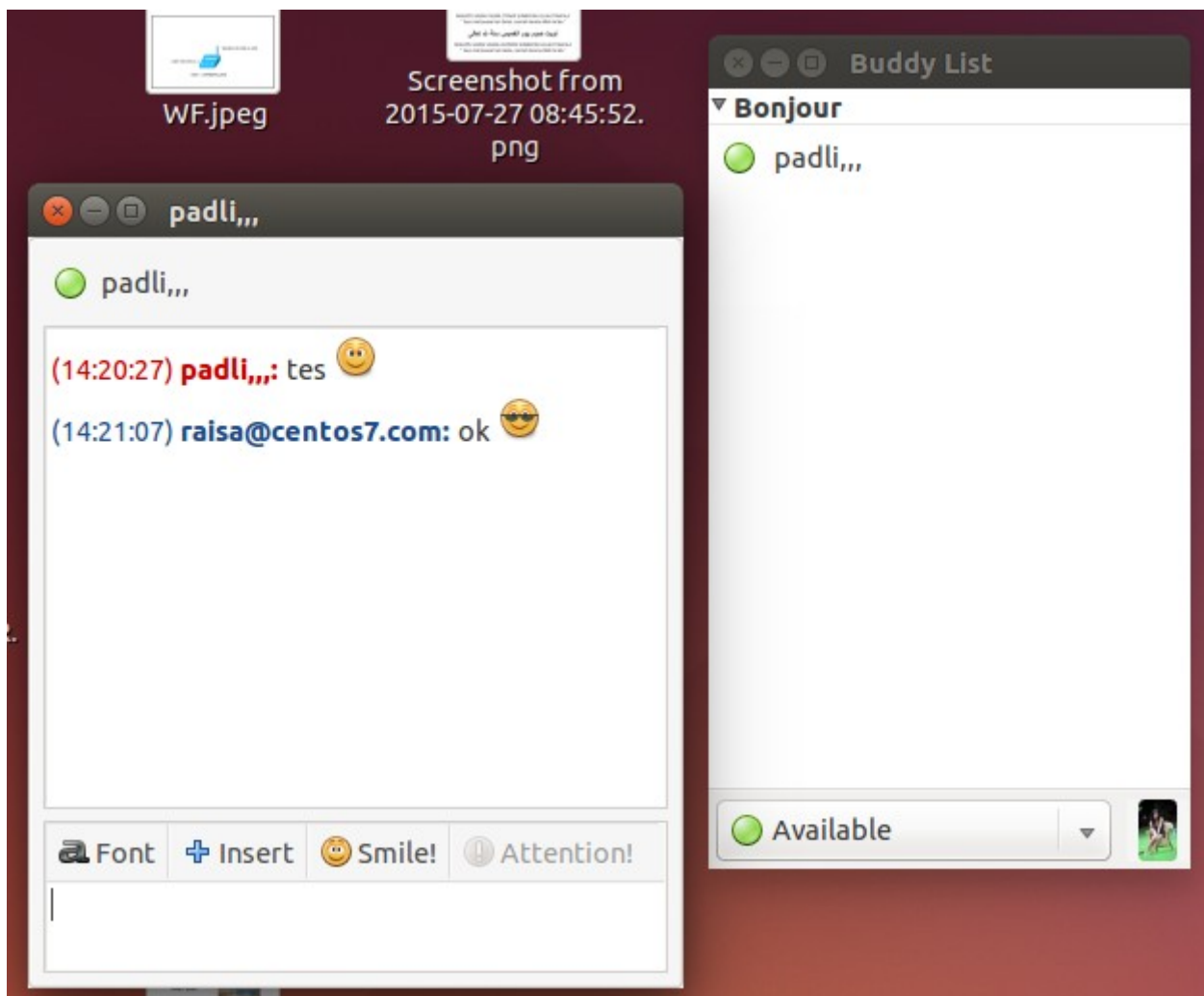
39. pidgin user 2 (client 2).
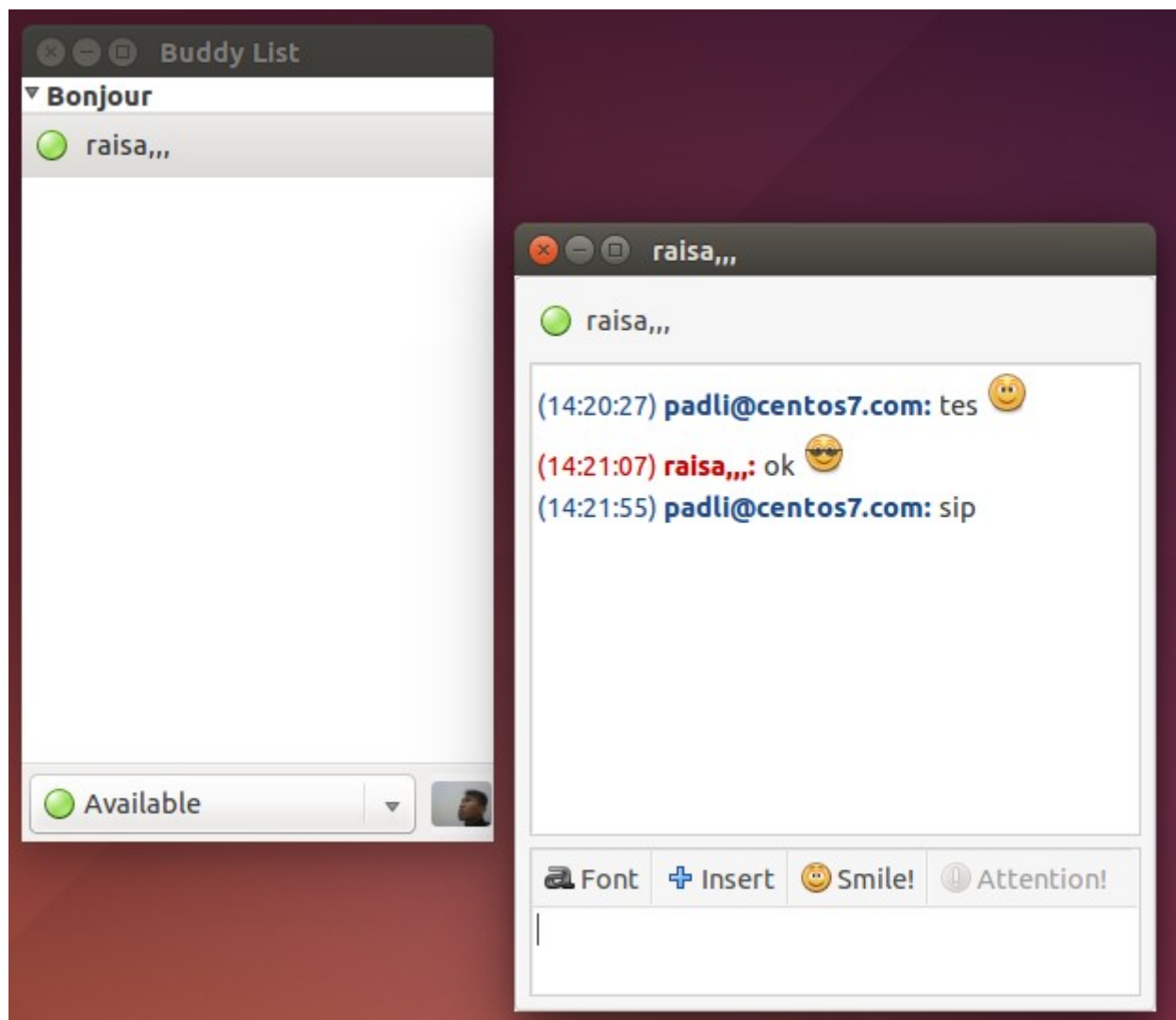
Buddy List

▼ Bonjour
padli,,,

Available
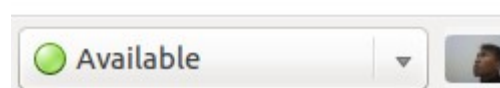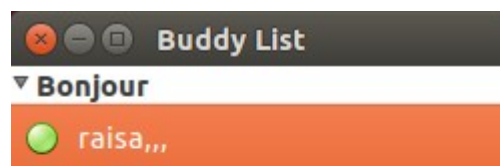
40. send message to user 2 (client 1).
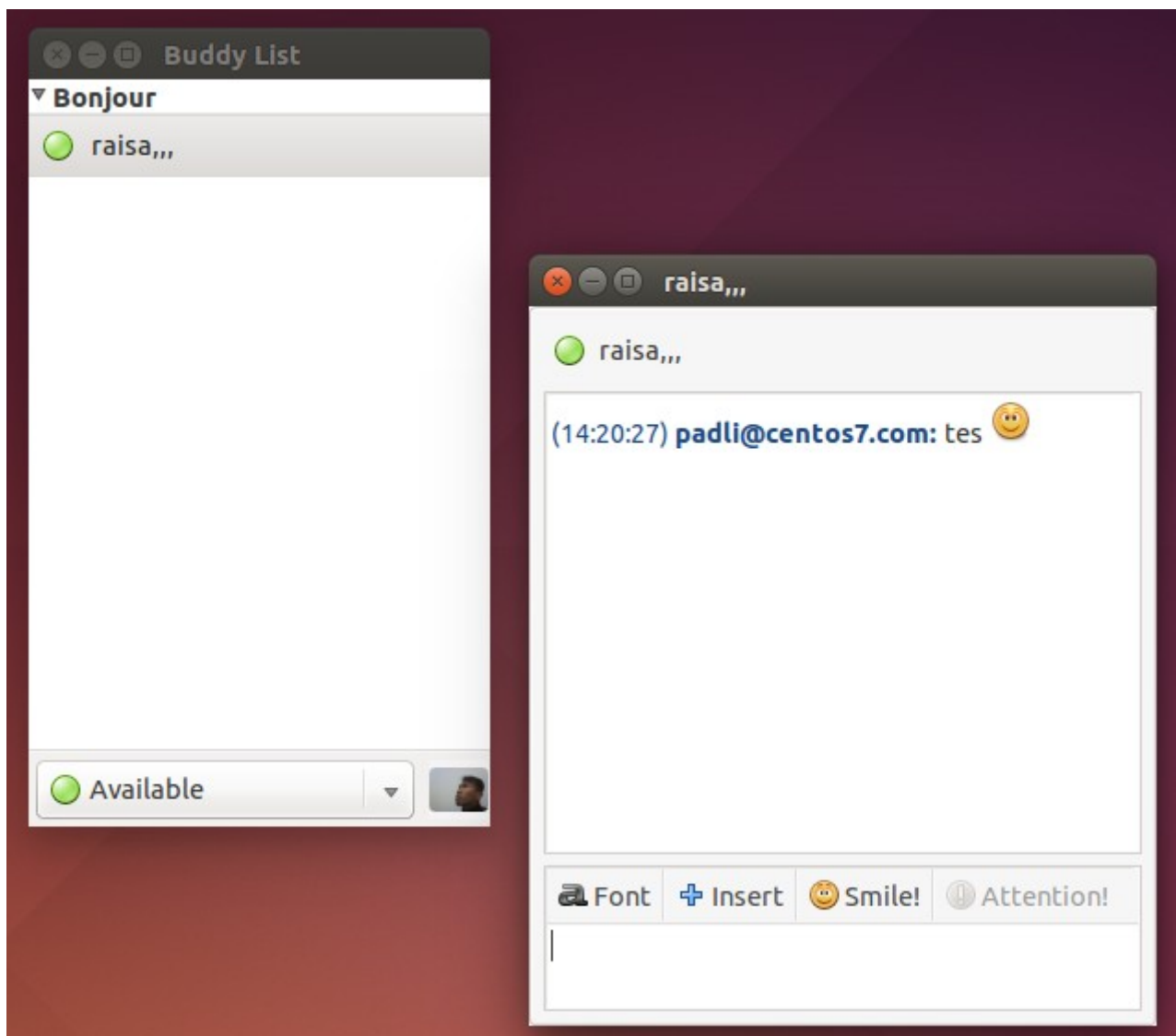
41. receive message from user 1 & reply (client 2).

42. receive message from user 2 & reply again (client 1).