

Index:

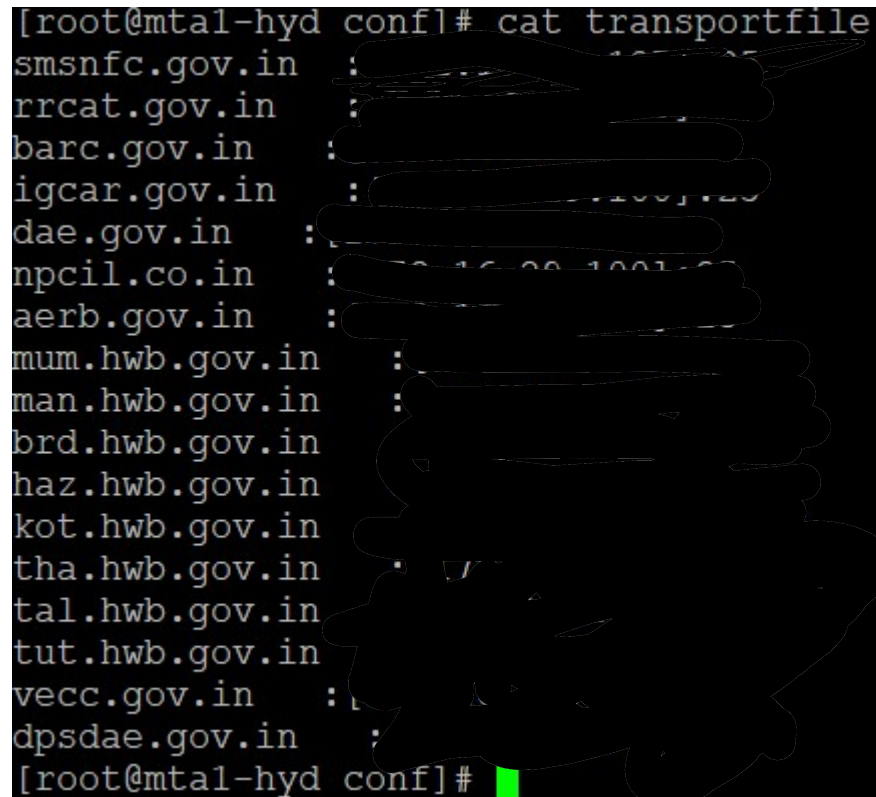
Table of Contents

1. How to add DAE IP's in MTA servers.	2
2. How to add DAE domains in MTA servers.....	3
3. How to Find differed mails in MTA servers.	3
4. If Mails are in Deferred mode we need to flush manually by using below command.	4
5. CLUSTER CHECKING	5
6. We should check that shared storage(/opt) mounted or not in both mbox servers.....	6
7. Mails Trace out	7
8. Mail sent but mail delivery failed.....	8
9. Email Log Analysis	8
10. Attachment restriction is ON/OFF.....	9
11. change Mail Routing from UUCP to Anunet and Vice Versa.....	10
12. USER PERMISSIONS FOR OUTSIDE MAILS WITH AND WITHOUT ATTACHMENTS	11
13. User Transfer From NFC to ZC/KOTA or vice versa	13
14. Restrict Users to send a mail outside (Gmail, yahoo)	14
15. Gal sync accounts.	16
16. User Unable to send/receive Mails	18
17. Drbd is checking in both serves in KOTA and ZC locations.	19
18. Zimbra email flow:	21
19. To check all services status at all three location status, start & stop check below	22
20. Check HAProxy 1 & HAProxy 2 status, we have to log in	23
21. All port's & bridges from HYD KVM BM	24
22. To enable SSL certificate for mails.....	30
23. To enable Rocket Chat SSL certificate for mail's.....	31
24. SOP for Antivirus updation on Email Systems.....	33
25. Change Mail Routing from UUCP to Anunet and Vice Versa	35
26. Account Setup Status of User Accounts Admin Console.....	37

1. How to add DAE IP's in MTA servers.

We need to login to both MTA servers and follow the below process.

```
# cd /opt/zimbra/common/conf
```



```
[root@mta1-hyd conf]# cat transportfile
smsnfc.gov.in : [REDACTED]
rrcat.gov.in : [REDACTED]
barc.gov.in : [REDACTED]
igcar.gov.in : [REDACTED]
dae.gov.in : [REDACTED]
npcil.co.in : [REDACTED]
aerb.gov.in : [REDACTED]
mum.hwb.gov.in : [REDACTED]
man.hwb.gov.in : [REDACTED]
brd.hwb.gov.in : [REDACTED]
haz.hwb.gov.in : [REDACTED]
kot.hwb.gov.in : [REDACTED]
tha.hwb.gov.in : [REDACTED]
tal.hwb.gov.in : [REDACTED]
tut.hwb.gov.in : [REDACTED]
vecc.gov.in : [REDACTED]
dpsdae.gov.in : [REDACTED]
[root@mta1-hyd conf]#
```

2. How to add DAE domains in MTA servers.

We need to login to both MTA servers and follow the below process.

```
# cd /opt/zimbra/common/conf
```

```
# vi local_domains
```

```
[root@mtal-hyd conf]# cat local_domains
nfc.gov.in      OK
mailarchiva.nfc.gov.in OK
smsnfc.gov.in   OK
rrcat.gov.in    OK
barc.gov.in     OK
igcar.gov.in    OK
dae.gov.in      OK
npcil.co.in     OK
aerb.gov.in     OK
mum.hwb.gov.in  OK
man.hwb.gov.in  OK
brd.hwb.gov.in  OK
haz.hwb.gov.in  OK
kot.hwb.gov.in  OK
tha.hwb.gov.in  OK
tal.hwb.gov.in  OK
tut.hwb.gov.in  OK
vecc.gov.in     OK
dpsdae.gov.in   OK
[root@mtal-hyd conf]#
```

3. How to Find differed mails in MTA servers.

- MTA 1
- MTA 2

We need to login to both MTA servers and follow the below process.

```
# cd /var/spool/postfix-2/deferred
```

```
# ls
```

```
[root@mtal-hyd /]# cd /var/spool/postfix-2/deferred/
```

```

[root@mtal-hyd /]# cd /var/spool/postfix-2/deferred/
[root@mtal-hyd deferred]# ls
0 1 2 3 4 5 6 7 8 9 A B C D E F
[root@mtal-hyd deferred]# ll
total 0
drwx----- 2 postfix postfix 6 May 11 09:39 0
drwx----- 2 postfix postfix 6 May 11 07:24 1
drwx----- 2 postfix postfix 6 May 10 17:45 2
drwx----- 2 postfix postfix 6 May 11 09:51 3
drwx----- 2 postfix postfix 6 May 11 09:30 4
drwx----- 2 postfix postfix 6 May 11 09:51 5
drwx----- 2 postfix postfix 27 May 11 09:52 6
drwx----- 2 postfix postfix 6 May 11 07:54 7
drwx----- 2 postfix postfix 6 May 10 16:57 8
drwx----- 2 postfix postfix 6 May 10 17:00 9
drwx----- 2 postfix postfix 6 May 11 09:24 A
drwx----- 2 postfix postfix 27 May 11 09:53 B
drwx----- 2 postfix postfix 6 May 11 09:36 C
drwx----- 2 postfix postfix 6 May 11 09:30 D
drwx----- 2 postfix postfix 6 May 11 09:45 E
drwx----- 2 postfix postfix 6 May 10 17:42 F
[root@mtal-hyd deferred]#

```

4. If Mails are in Deferred mode we need to flush manually by using below command.

```

# /usr/sbin/postqueue-c /etc/postfix-2/ -f
# /opt/zimbra/common/sbin/postqueue -f
# /usr/sbin/postqueue -f

```

5. CLUSTER CHECKING

1. Login to mailbox servers and check cluster status.
2. Both Nodes should be online otherwise we will get problem.
3. Please find the below process
4. How to check the cluster status and stand by and unstand by the nodes?

pcs status

```
[root@mbox1-hyd sessions]# pcs status
Cluster name: mailbox_cluster
Cluster Summary:
 * Stack: corosync
 * Current DC: mbox2-hyd.nfc.gov.in (version 2.0.5-9.el8_4.3-ba59be7122) - partition with quorum
 * Last updated: Sat May 11 10:05:18 2024
 * Last change: Sat May 11 10:05:13 2024 by root via cibadmin on mbox2-hyd.nfc.gov.in
 * 2 nodes configured
 * 11 resource instances configured

Node List:
 * Online: [ mbox1-hyd.nfc.gov.in mbox2-hyd.nfc.gov.in ]

Full List of Resources:
 * scsi-shooter (stonith:fence_scsi): Started mbox1-hyd.nfc.gov.in
 * Clone Set: locking-clone [locking]:
 * Started: [ mbox1-hyd.nfc.gov.in mbox2-hyd.nfc.gov.in ]
 * Clone Set: shared_vg-clone [shared_vg]:
 * Started: [ mbox1-hyd.nfc.gov.in mbox2-hyd.nfc.gov.in ]
 * IP_Addr (ocf::heartbeat:IPaddr2): Started mbox1-hyd.nfc.gov.in
 * svczimbra (ocf::heartbeat:zimbracl1): Started mbox1-hyd.nfc.gov.in

Failed Fencing Actions:
 * unfencing of mbox1-hyd.nfc.gov.in failed: delegate=, client=pacemaker-controld.1616, origin=mbox2-hyd.nfc.gov.in, last-failed='2024-05-08 17:01:19 +05:30'

Daemon Status:
 corosync: active/enabled
 pacemaker: active/enabled
 pcsd: active/enabled
[root@mbox1-hyd sessions]#
```

- In above image displays both nodes show Online.
- We can find the ip and zimbra running on which node .
- If only one node is online, it may cause the problem when online machine is down. Production will stop.
- Because of that reason both nodes should be online.
- Please find the below image.

pcs status

```
[root@mbox1-hyd sessions]# pcs status
Cluster name: mailbox_cluster
Cluster Summary:
 * Stack: corosync
 * Current DC: mbox2-hyd.nfc.gov.in (version 2.0.5-9.el8_4.3-ba59be7122) - partition with quorum
 * Last updated: Sat May 11 10:03:23 2024
 * Last change: Fri May 10 10:15:01 2024 by root via cibadmin on mbox2-hyd.nfc.gov.in
 * 2 nodes configured
 * 11 resource instances configured

Node List:
 * Node mbox2-hyd.nfc.gov.in: standby
 * Online: [ mbox1-hyd.nfc.gov.in ]

Full List of Resources:
 * scsi-shooter (stonith:fence_scsi): Started mbox1-hyd.nfc.gov.in
 * Clone Set: locking-clone [locking]:
 * Started: [ mbox1-hyd.nfc.gov.in ]
 * Stopped: [ mbox2-hyd.nfc.gov.in ]
 * Clone Set: shared_vg-clone [shared_vg]:
```

- If we want move the cluster services manually follow the below commands.

pcs node standby mbox2-hyd.nfc.gov.in (It means mbox2 should be going to offline)

pcs node unstandby mbox2-hyd.nfc.gov.in (It means mbox2 should be going to online)

6. We should check that shared storage(/opt) mounted or not in both mbox servers.

- Please find the below command and images.

df -h

- /dev/mapper/vg_gfs2-lv_gfs2 7.0T 4.2T 2.9T 60% /opt (shared storage)

```
[root@mbox1-hyd ~]# df -h
Filesystem                Size      Used Avail Use% Mounted on
devtmpfs                   32G         0    32G   0% /dev
tmpfs                      32G        51M    32G   1% /dev/shm
tmpfs                      32G       401M    31G   2% /run
tmpfs                      32G         0    32G   0% /sys/fs/cgroup
/dev/mapper/rhel-root      495G       71G   425G  15% /
/dev/vda1                  1014M     221M    794M  22% /boot
/dev/mapper/vg_gfs2-lv_gfs2 7.0T     4.2T    2.9T  60% /opt
tmpfs                      6.3G         0    6.3G   0% /run/user/995
/dev/mapper/vg_backup-zm_backup 6.0T      26G    5.7T   1% /backup_zimbra
tmpfs                      6.3G         0    6.3G   0% /run/user/0
[root@mbox1-hyd ~]#
```

```
[root@mbox2-hyd ~]# df -h
Filesystem                Size      Used Avail Use% Mounted on
devtmpfs                   32G         0    32G   0% /dev
tmpfs                      32G        66M    32G   1% /dev/shm
tmpfs                      32G       329M    31G   2% /run
tmpfs                      32G         0    32G   0% /sys/fs/cgroup
/dev/mapper/rhel-root      495G       31G   465G   7% /
/dev/vda1                  1014M     220M    795M  22% /boot
tmpfs                      6.3G         0    6.3G   0% /run/user/0
/dev/mapper/vg_gfs2-lv_gfs2 7.0T     4.2T    2.9T  60% /opt
[root@mbox2-hyd ~]#
```


7. Mails Trace out

- We need to login to both MTA servers
- After logging switch to zimbra user and run below commands.
- Please find the below image.

su – zimbra

./libexec/zmmsgtrace -s sender@nfc.gov.in -r receiver@nfc.gov.in /var/log/zimbra.log-20240511.gz
(path)

```
[root@mtal-hyd conf]# su - zimbra
Last login: Sat May 11 10:41:56 IST 2024 on pts/0
[zimbra@mtal-hyd ~]$ ./libexec/zmmsgtrace -s dvr@nfc.gov.in -r mail-spt@nfc.gov.in /var/log/zimbra.log-20240511.gz
Tracing messages
    from dvr@nfc.gov.in
    to mail-spt@nfc.gov.in

zmmsgtrace: total unmatched entries in '/var/log/zimbra.log-20240511.gz': 7048
zmmsgtrace: use -debug to see unmatched lines
Message ID '1206180451.668274.1715315215030.JavaMail.zimbra@nfc.gov.in'
dvr@nfc.gov.in -->
    biswajit@tetrain.com
    gvsm@nfc.gov.in
    kunal@nfc.gov.in
    mail-spt@nfc.gov.in
    seshu@nfc.gov.in
Recipient mail-spt@nfc.gov.in
May 10 09:57:01 - mbox2-hyd.nfc.gov.in --> 127.0.0.1:10026 (127.0.0.1:10026) status sent
May 10 09:57:01 - mtal-hyd --> 127.0.0.1:10032 (127.0.0.1:10032) status sent
May 10 09:57:06 - mtal-hyd --> mailbox-hyd.nfc.gov.in:7025 (10.172.98.226:7025) status sent

Message ID '905785084.61321.1715319263139.JavaMail.zimbra@nfc.gov.in'
dvr@nfc.gov.in -->
    mail-spt@nfc.gov.in
Recipient mail-spt@nfc.gov.in
May 10 11:04:23 - mbox1-hyd.nfc.gov.in --> 127.0.0.1:10026 (127.0.0.1:10026) status sent
May 10 11:04:23 - mtal-hyd --> 127.0.0.1:10032 (127.0.0.1:10032) status sent
May 10 11:04:30 - mtal-hyd --> mailbox-hyd.nfc.gov.in:7025 (10.172.98.226:7025) status sent

[zimbra@mtal-hyd ~]$
```

8. Mail sent but mail delivery failed

1) First we need to log in MTA SERVERS as a root user.

2) Switch to zimbra user

a) su – zimbra

3) Then there is a reason for delivery failed.

i) Mail in mailq.

ii) differed: blocked in lmsv level

iii) Bounce back: If we didn't get any bounce back we can trace out the mail by the following command.

ii) We require both sender and receiver address

```
# ./libexec/zmmsgtrace -s sender@mail.com -r receiver@mail.com.
```

9. Email Log Analysis

◆ Important logs.

- a. /var/log/maillog
- b. /var/log/zimbra.log
- c. /opt/zimbra/log/mailbox.log
- d. /opt/zimbra/log/audit.log

/var/log/maillog : In this log we can find delivery of mails.

/var/log/zimbra.log: In this log we can find delivery of mails and also amavis everything.

/opt/zimbra/log/mailbox.log: In this log we can find user what is mail id Origin IP and type of webclient.

/opt/zimbra/log/audit.log: In this log we can find user what is mail id Origin IP and also authentications.

Examples:

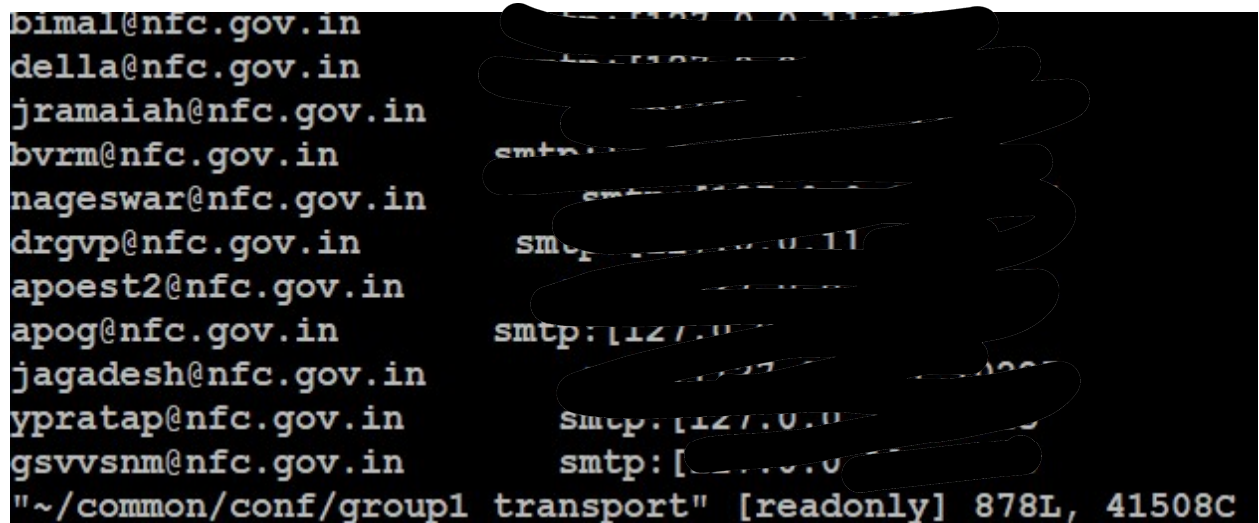
```
# tail -f /var/log/maillog : For continuous logs
```

```
# less /var/log/maillog | grep user@nfc.gov.in : we can find mail deliver or not.
```

```
# cat /opt/zimbra/log/audit.log | grep user@nfc.gov.in : to find a user login time and IP
```

10. Attachment restriction is ON/OFF

1. First we need to login to MTA Servers of Hyderabad (mta1 and mta2).
2. Login through putty.
3. Please follow the below commands
 - a) cd /opt/zimbra/common/conf
 - b) In this path two files
 - i) group1_transport and group2_transport
 - ii) group1_transport = this file has some users they have attachment facility
 - iii) If we want to give permission to any user to send attachment outside add in this file. After adding need to run following command.
 - iv) postmap /opt/zimbra/common/conf/group1_transport.



```
bimal@nfc.gov.in
della@nfc.gov.in
jramaiah@nfc.gov.in
bvrn@nfc.gov.in
nageswar@nfc.gov.in
drgvp@nfc.gov.in
apoest2@nfc.gov.in
apog@nfc.gov.in
jagadesh@nfc.gov.in
ypratap@nfc.gov.in
gsvvsnm@nfc.gov.in
"~/common/conf/group1 transport" [readonly] 878L, 41508C
```

- Please follow the below commands

a) `cd /opt/zimbra/common/conf`

`group2_transport`

- group2_transport = this file has some users they have without attachment facility.
- If we want to give permission outside to any user without attachment add in this file after adding need to run following command.
- `postmap /opt/zimbra/common/conf/group2_transport`
- Please find the below image.

```

smreddy85@nfc.gov.in smtp:[127.0.0.1]:26
utilsele@nfc.gov.in smtp:[127.0.0.1]:26
maryjoseph@nfc.gov.in smtp:[127.0.0.1]:26
habeeb4615@nfc.gov.in smtp:[127.0.0.1]:26
ohclab@nfc.gov.in smtp:[127.0.0.1]:26
pmm89@nfc.gov.in smtp:[127.0.0.1]:26
bandari@nfc.gov.in smtp:[127.0.0.1]:26
mf-bb-o@nfc.gov.in smtp:[127.0.0.1]:26
tkr4680@nfc.gov.in smtp:[127.0.0.1]:26
rameshdulam@nfc.gov.in smtp:[127.0.0.1]:26
mzgo@nfc.gov.in smtp:[127.0.0.1]:26
prem@nfc.gov.in smtp:[127.0.0.1]:26
"/common/conf/group2 transport" 976L, 40135C

```

11. change Mail Routing from UUCP to Anunet and Vice Versa

- Become zimbra user after login to the both Hyderabad MTA servers (98.201 and 98.204).
- Open /opt/zimbra/common/conf/transportfile

```

[zimbra@mtal-hyd ~]$ cat /opt/zimbra/common/conf/transportfile
smsnfc.gov.in :[127.0.0.1]:26
rrcat.gov.in :[127.0.0.1]:26
barc.gov.in :[127.0.0.1]:26
igcar.gov.in :[127.0.0.1]:26
dae.gov.in :[127.0.0.1]:26
npcil.co.in :[127.0.0.1]:26
aerb.gov.in :[127.0.0.1]:26
mum.hwb.gov.in :[127.0.0.1]:26
man.hwb.gov.in :[127.0.0.1]:26
brd.hwb.gov.in :[127.0.0.1]:26
haz.hwb.gov.in :[127.0.0.1]:26
kot.hwb.gov.in :[127.0.0.1]:26
tha.hwb.gov.in :[127.0.0.1]:26
tal.hwb.gov.in :[127.0.0.1]:26
tut.hwb.gov.in :[127.0.0.1]:26
vecc.gov.in :[127.0.0.1]:26
dpsdae.gov.in :[127.0.0.1]:26
[zimbra@mtal-hyd ~]$

```

- ❖ Comment all the lines containing [redacted] (Anunet SMTP server) and save the file.
- ❖ run `postmap /opt/zimbra/common/conf/transportfile`.
- ❖ To revert back to anunet gateway repeat 3rd step uncommenting and run step 4.

12. USER PERMISSIONS FOR OUTSIDE MAILS WITH AND WITHOUT ATTACHMENTS

1. After creation of email and archive accounts we need to give outside mails permission.
2. Generally we have “2” MTA Servers in our system we need to add user in that servers.
3. We have “2” groups in each MTA Servers.
4. group1_transport (In this group of users able to send attachments outside with 25MB only).
5. group2_transport (In this group of users able to send only mails outside without attachments).
6. Login to “MTA SERVERS “as a Zimbra user and execute the following commands and find the below images.
7. After adding mail id in groups we need to run postmap command which is given below.

```
# su – zimbra
```

```
$ cd /opt/zimbra/common/conf/
```

```
$ vi group1_transport
```

```
$ postmap /opt/zimbra/common/conf/group1_transport
```

```
$ vi group1_2ransport
```

```
$ postmap /opt/zimbra/common/conf/group2_transport
```

```
zimbra@mtal-hyd:~/common/conf
[root@mtal-hyd ~]# su - zimbra
Last login: Sat Sep  9 13:19:18 IST 2023 on pts/2
[zimbra@mtal-hyd ~]$ cd /opt/zimbra/common/conf/
[zimbra@mtal-hyd conf]$ vi group1_transport
```

```
zimbra@mtal-hyd:~/common/conf
```

```
qasim3@nfc.gov.in
spw@nfc.gov.in
tv Gupta@nfc.gov.in
kkp babu@nfc.gov.in
skr@nfc.gov.in
sic-util@nfc.gov.in
avgr@nfc.gov.in
frf@nfc.gov.in
nagamani@nfc.gov.in
mnvv@nfc.gov.in
qabps@nfc.gov.in
msn@nfc.gov.in
ppc-fuel@nfc.gov.in
jgn@nfc.gov.in
frfshop@nfc.gov.in
yvs@nfc.gov.in
ddr@nfc.gov.in
rhr@nfc.gov.in
uvr@nfc.gov.in
cnb@nfc.gov.in
```

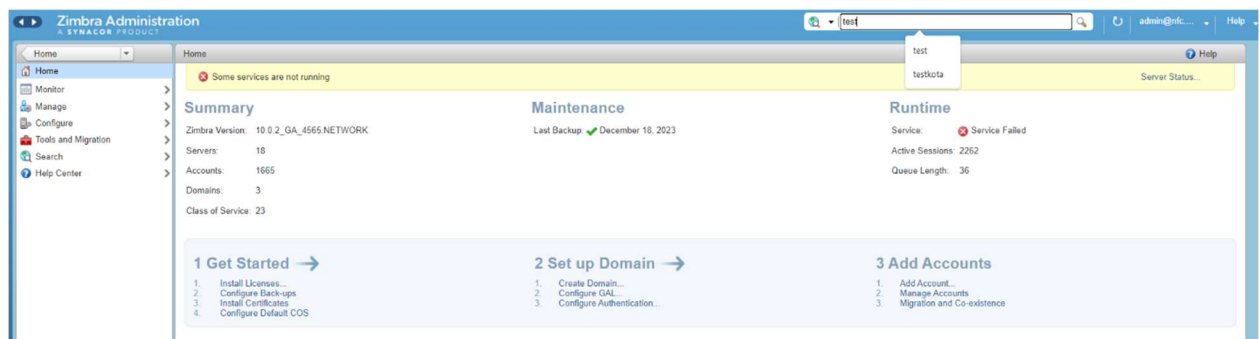
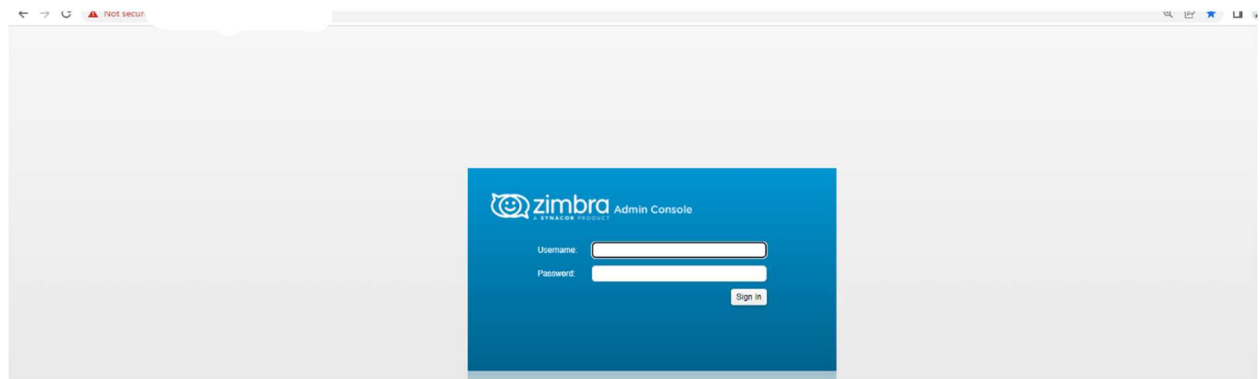
\$ postmap /opt/zimbra/common/conf/group1_transport

```
zimbra@mtal-hyd:~/common/conf
[root@mtal-hyd ~]# su - zimbra
Last login: Sat Sep  9 13:19:18 IST 2023 on pts/2
[zimbra@mtal-hyd ~]$ cd /opt/zimbra/common/conf/
[zimbra@mtal-hyd conf]$ vi group1_transport
[zimbra@mtal-hyd conf]$ vi group2_transport
[zimbra@mtal-hyd conf]$
```

```
zimbra@mta1-hyd:~/common/conf
asim3@nfc.gov.in
spw@nfc.gov.in
tv Gupta@nfc.gov.in
k kpbabu@nfc.gov.in
skr@nfc.gov.in
sic-util@nfc.gov.in
avgr@nfc.gov.in
frf@nfc.gov.in
nagamani@nfc.gov.in
mnvv@nfc.gov.in
qabps@nfc.gov.in
msn@nfc.gov.in
ppc-fuel@nfc.gov.in
jgn@nfc.gov.in
frfshop@nfc.gov.in
yvs@nfc.gov.in
ddr@nfc.gov.in
rhr@nfc.gov.in
uvr@nfc.gov.in
cmb@nfc.gov.in
sheela@nfc.gov.in
```

13. User Transfer From NFC to ZC/KOTA or vice versa

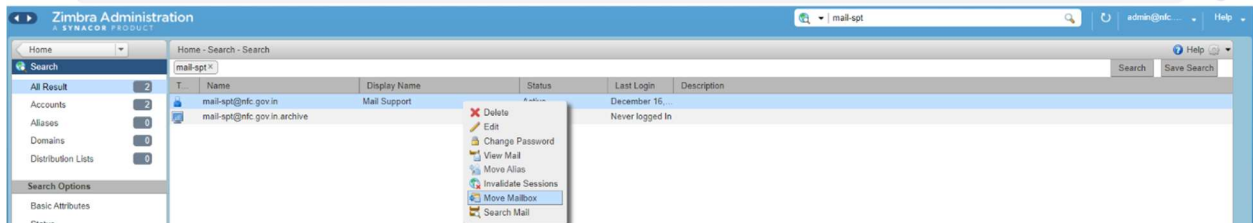
- ❖ First Login into admin panel



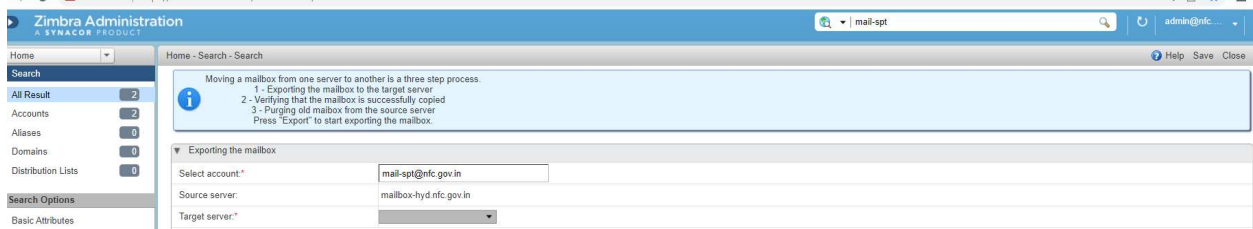
- ❖ Search a user we want to transfer account from one location to another.



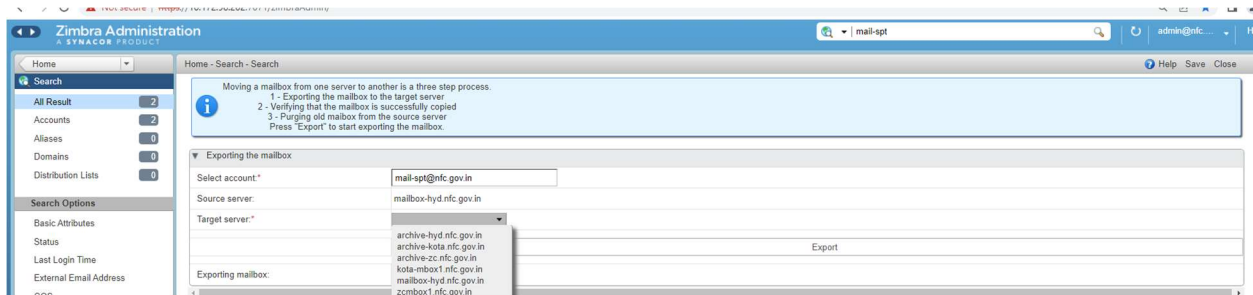
- ❖ Select Move mailbox.



- ❖ The selected user previously in Hyderabad server as shown below.



- ❖ We can move to Kota or ZC locations as shown below image and Vice-versa archive mail id also need to move.



- ❖ Save it

14. Restrict Users to send a mail outside (Gmail, yahoo)

- ❖ Login to MTA Servers and switch to zimbra user
- ❖ Run following commands.


```
# su - zimbra
```

```
# cd /opt/zimbra/common/conf
```

```
# cat restricted_senders
```

```
[root@mta1-hyd conf]# su - zimbra
Last login: Sat May 11 11:27:20 IST 2024 on pts/0
[zimbra@mta1-hyd ~]$
[zimbra@mta1-hyd ~]$ cd /opt/zimbra/common/conf
[zimbra@mta1-hyd conf]$ vi restricted_senders
[zimbra@mta1-hyd conf]$ cat re
relocated                restricted_senders
[zimbra@mta1-hyd conf]$ cat restricted_senders
qasim2@nfc.gov.in    local_only
test12@nfc.gov.in    local_only
challa.test@nfc.gov.in local_only
[zimbra@mta1-hyd conf]$
[zimbra@mta1-hyd conf]$
```

```
[root@mta1-hyd conf]# su - zimbra
Last login: Sat May 11 11:27:20 IST 2024 on pts/0
[zimbra@mta1-hyd ~]$
[zimbra@mta1-hyd ~]$ cd /opt/zimbra/common/conf
[zimbra@mta1-hyd conf]$ vi restricted_senders
[zimbra@mta1-hyd conf]$ cat re
relocated                restricted_senders
[zimbra@mta1-hyd conf]$ cat restricted_senders
qasim2@nfc.gov.in    local_only
test12@nfc.gov.in    local_only
challa.test@nfc.gov.in local_only
[zimbra@mta1-hyd conf]$
[zimbra@mta1-hyd conf]$
```

15. Gal sync accounts.

- ❖ Please find the gal sync accounts depends on location
- ❖ If user's mailbox takes more time for loading, please check different location gal sync account mounted.

galsync.0xcn_3eu4z@nfc.gov.in - Kota archive

galsync.9ljcthrp@nfc.gov.in - Hyd archive

galsync.osnphefhw7@nfc.gov.in - ZC archive

galsync.aewzjywpp@nfc.gov.in - ZC mailbox

galsync.qq7du2_vc@nfc.gov.in - Kota mailbox

galsync.yxn8jp0m@nfc.gov.in - Hyd mailbox

- ❖ Please find the below commands to check and remove.
- ❖ Login to mailbox server and switch to zimbra user.

su – zimbra

zmmailbox -z -m vsai@nfc.gov.in gaf (to get the user mount information)

```
[zimbra@mbox1-hyd ~]$ zmmailbox -z -m vsai@nfc.gov.in gaf
```

Id	View	Unread	Msg Count	Path
1	unkn	0	0	/
16	docu	0	31	/Briefcase
10	appo	0	2	/Calendar
10542	mess	62	77	/CERTIN
14	mess	0	0	/Chats
12818	mess	181	249	/Circulars
7	cont	0	141	/Contacts
6	mess	0	72	/Drafts
13	cont	0	123	/Emailed Contacts
20	docu	0	0	/Files shared with me
2	mess	687	2994	/Inbox
4	mess	2	3	/Junk
2325	unkn	82	84	/Nutanix alerts
4600	unkn	461	755	/Nutanix alerts/Circulars
15549	mess	20	74	/Radware
5	mess	0	1009	/Sent
2961	unkn	0	0	/Sent-items
5516	unkn	0	24	/Sent-old
3506	unkn	0	0	/Spam
15	task	0	0	/Tasks
3	unkn	0	77	/Trash
5593	unkn	0	0	/archive-mails (vsai@nfc.gov.in.archive:1)
ab710153-0	docu	0	0	/Briefcase
ab710153-0	appo	0	2	/Calendar
ab710153-0	mess	0	0	/Chats
ab710153-0	cont	0	0	/Contacts
ab710153-0	mess	0	0	/Drafts
ab710153-0	cont	0	0	/Emailed Contacts
ab710153-0	docu	0	0	/Files shared with me
ab710153-0	mess	4028	4029	/Inbox
ab710153-0	mess	0	0	/Junk
ab710153-0	mess	0	0	/Sent
ab710153-0	task	0	0	/Tasks
ab710153-0	unkn	0	0	/Trash
5601	unkn	387	399	/Old-Circular (kunal@nfc.gov.in:48159)

❖ In Above image if any different gal sync account mount we can remove by using below command.

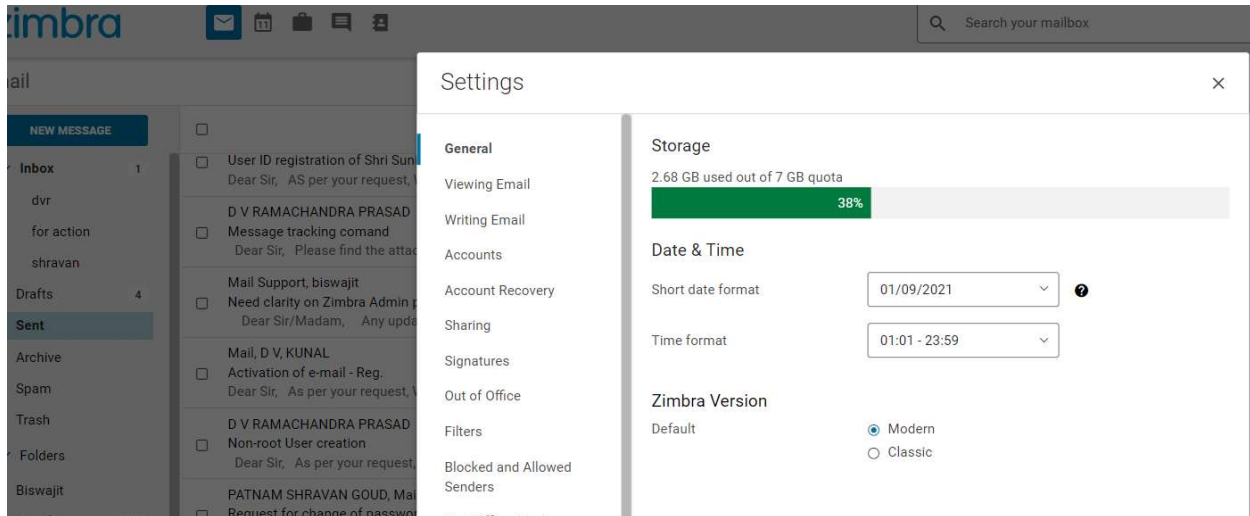
```
# zmmailbox -z -m vsai@nfc.gov.in (hyd-user)df/galsync.0xcn_3eu4z_InternalGAL( kota-archive mount point)
```

```
[zimbra@mbox1-hyd ~]$ zmmailbox -z -m vsai@nfc.gov.in gaf
```

Id	View	Unread	Msg Count	Path
1	unkn	0	0	/
16	docu	0	31	/Briefcase
10	appo	0	2	/Calendar
10542	mess	62	77	/CERTIN
14	mess	0	0	/Chats
12818	mess	181	249	/Circulars
7	cont	0	141	/Contacts
6	mess	0	72	/Drafts
13	cont	0	123	/Emailed Contacts
20	docu	0	0	/Files shared with me
2	mess	687	2994	/Inbox
4	mess	2	3	/Junk
2325	unkn	82	84	/Nutanix alerts
4600	unkn	461	755	/Nutanix alerts/Circulars
15549	mess	20	74	/Radware
5	mess	0	1009	/Sent
2961	unkn	0	0	/Sent-items
5516	unkn	0	24	/Sent-old
3506	unkn	0	0	/Spam
15	task	0	0	/Tasks
3	unkn	0	77	/Trash
5593	unkn	0	0	/archive-mails (vsai@nfc.gov.in.archive:1)
ab710153-0	docu	0	0	/Briefcase
ab710153-0	appo	0	2	/Calendar
ab710153-0	mess	0	0	/Chats
ab710153-0	cont	0	0	/Contacts
ab710153-0	mess	0	0	/Drafts
ab710153-0	cont	0	0	/Emailed Contacts
ab710153-0	docu	0	0	/Files shared with me
ab710153-0	mess	4028	4029	/Inbox
ab710153-0	mess	0	0	/Junk
ab710153-0	mess	0	0	/Sent
ab710153-0	task	0	0	/Tasks
ab710153-0	unkn	0	0	/Trash
5601	unkn	387	399	/Old-Circular (kunal@nfc.gov.in:48159)

16. User Unable to send/receive Mails

- ❖ User unable send/receive mails.
- ❖ Please check the quota of user.



17. Drbd is checking in both serves in KOTA and ZC locations.

- ❖ We need to check every day weather data sync or not in between two mail box servers.
- ❖ If both are not sync means data is not replicating into secondary.
- ❖ mbox 1 is primary and mbox2 is secondary both should be up to date.
- ❖ If mbox1 down all service shifted to mbox 2 that time data will not be lost
- ❖ If both are not up to date mbox1 down all service shifted tombox 2 that time data will be lost.
- ❖ So before doing any changes need to check

#drbdadm status

drbdadm connect drbd1

❖ Mbox1

```

root@kota-mbox1:~
[root@kota-mbox1 ~]# drbd
drbdadm  drbdmeta  drbdmon  drbdsetup
[root@kota-mbox1 ~]# drbdadm status
drbd1 role:Primary
    disk:UpToDate
    kota-mbox2.nfc.gov.in role:Secondary
    peer-disk:UpToDate
[root@kota-mbox1 ~]#

```

❖ Mbox2

```
[root@kota-mbox2 ~]# drbdadm status
drbd1 role:Secondary
  disk:UpToDate
  kota-mbox1.nfc.gov.in role:Primary
  peer-disk:UpToDate
```

Zcmbox1

#drbdadm status

drbdadm connect drbd1

```
[root@zcmbox1 ~]# drbdadm status
drbd1 role:Primary
  disk:UpToDate
  zcmbox2.nfc.gov.in role:Secondary
  peer-disk:UpToDate

[root@zcmbox1 ~]#
```

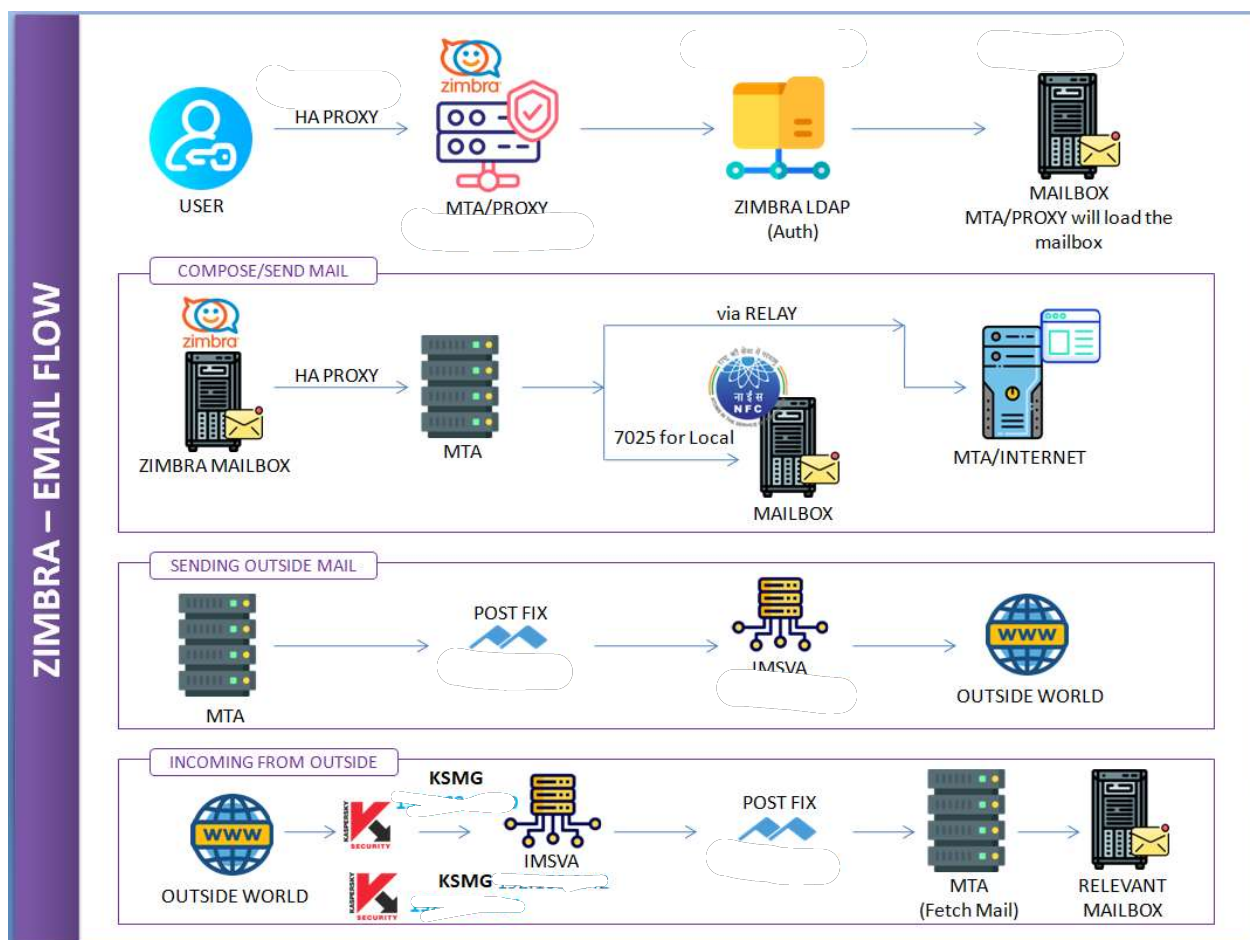
Zcmbox2

#drbdadm status

```
[root@zcmbox2 ~]# drbdadm status
drbd1 role:Secondary
disk:UpToDate
zcmbox1.nfc.gov.in role:Primary
peer-disk:UpToDate

[root@zcmbox2 ~]#
```

18. Zimbra email flow:



19. To check all services status at all three location status, start & stop check below

- ❖ Login as a root user then swith to zimbra user then please follow the below commands:

zmcontrol status

zmcontrol start

zmcontrol restart

zmcontrol stop

10.172.98.204 & 201 [MTA 1 & 2]

```
[zimbra@mtal-hyd ~]$ zmcontrol status
Host mtal-hyd.nfc.gov.in
    amavis Running
    antispam Running
    antivirus Running
    archiving Running
    dnscache Running
    memcached Running
    mta Running
    opendkim Running
    proxy Running
    snmp Running
    stats Running
    zmconfigd Running
```

10.172.98.203 & 206 [Ldap 1 & 2]

```
[zimbra@ldapl-hyd ~]$ zmcontrol status
Host ldapl-hyd.nfc.gov.in
    ldap Running
    snmp Running
    stats Running
    zmconfigd Running
```

10.172.98.209 archive server

```
[zimbra@archive-hyd ~]$ zmcontrol status
Host archive-hyd.nfc.gov.in
    convertd Running
    mailbox Running
    service webapp Running
    snmp Running
    spell Running
    stats Running
    zimbra webapp Running
    zimbraAdmin webapp Running
    zimlet webapp Running
    zmconfigd Running
```

Need to verify with below commands:

Service Status	Services Start	Services Restart	Services Stop
zmcontrol status to check all services are running or not	zmcontrol start If some services are not running or stopped, we have to use above command	zmcontrol restart If all services are not running we have to restart the services using above command	zmcontrol stop If we need to stop the services, we have to use above command

20. Check HAProxy 1 & HAProxy 2 status, we have to login

[#systemctl status haproxy](#) (to check the status of the service)

[#systemctl start haproxy](#) (to start the service if it is inactive)

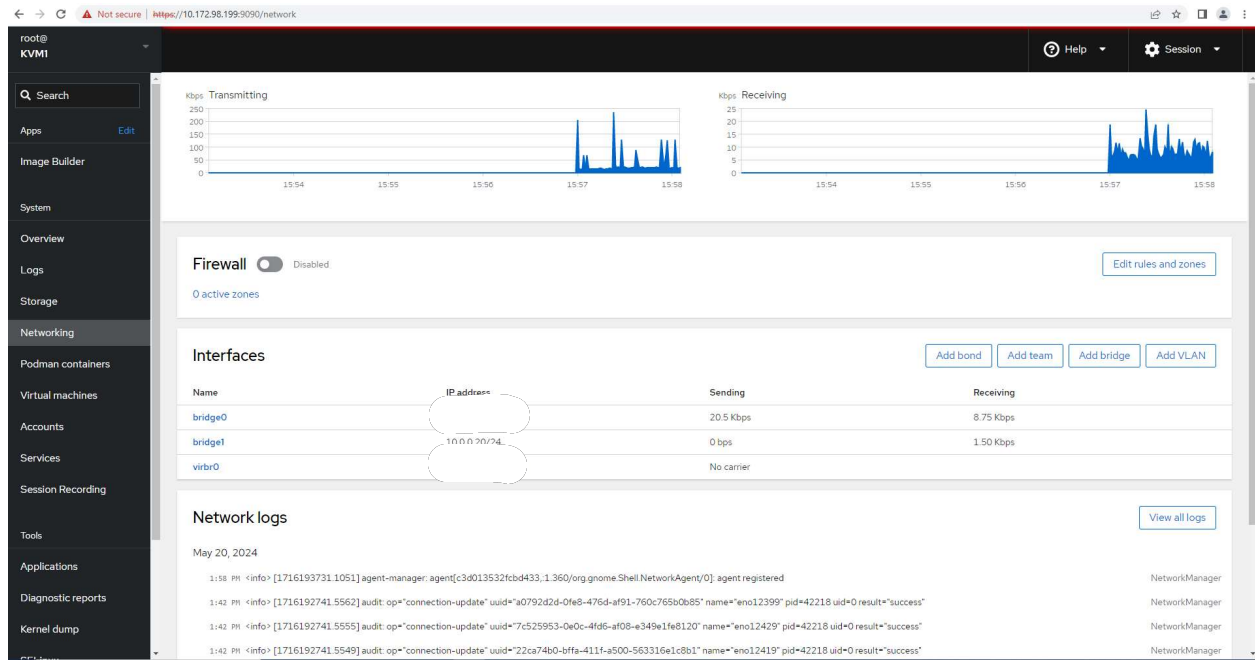
[#systemctl stop haproxy](#) (to stop the running service)

```
[root@HAProxy1 ~]# systemctl status haproxy
● haproxy.service - HAProxy Load Balancer
   Loaded: loaded (/usr/lib/systemd/system/haproxy.service; enabled; vendor preset: disabled)
   Active: active (running) since Wed 2024-02-21 17:29:04 IST; 2 months 15 days ago
     Process: 519679 ExecStartPre=/usr/sbin/haproxy -f $CONFIG -f $CFGDIR -c -q $OPTIONS (code=exited, status=0/SUCCESS)
    Main PID: 519682 (haproxy)
       Tasks: 2 (limit: 48998)
      Memory: 37.0M
     CGroup: /system.slice/haproxy.service
             └─519682 /usr/sbin/haproxy -Ws -f /etc/haproxy/haproxy.cfg -f /etc/haproxy/conf.d -p /run/haproxy.pid
               └─519686 /usr/sbin/haproxy -Ws -f /etc/haproxy/haproxy.cfg -f /etc/haproxy/conf.d -p /run/haproxy.pid
```

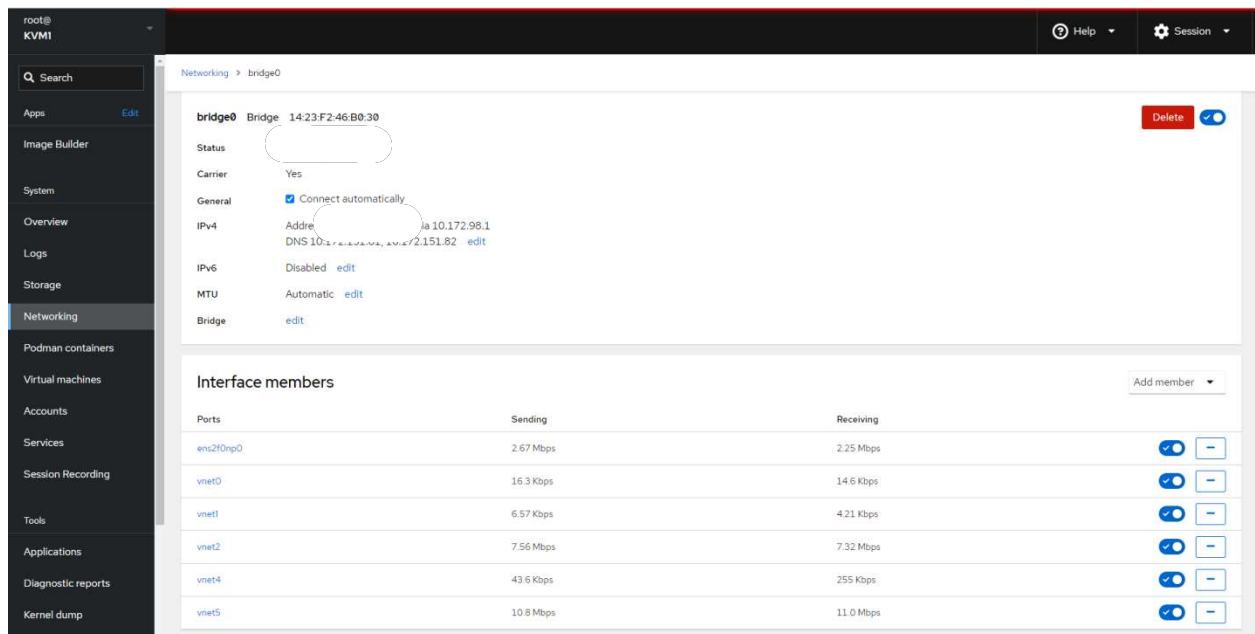
21. All port's & bridges from HYD KVM BM

HYD BM KVM 1 IF

bridge0 & bridge1



bridge0 ports



bridge1 ports

The screenshot shows the KVM1 Networking interface for bridge1. The left sidebar contains a search bar and a list of system components. The main panel displays the bridge1 configuration and a table of interface members.

Bridge1 Configuration:

- General: ☒ Connect automatically
- IPv4: Address 10.0.0.20/24 via 10.0.0.1 [edit](#)
- IPv6: Disabled [edit](#)
- MTU: Automatic [edit](#)
- Bridge: [edit](#)

Interface members:

Ports	Sending	Receiving	
eno12399		Inactive	☒ -
eno12409		Inactive	☒ -
eno12419		Inactive	☒ -
eno12429		Inactive	☒ -
eno8303		Inactive	☒ -
eno8403	0 bps	1.31 Kbps	☒ -
ens2fnp1		Inactive	☐ -
idrac		Inactive	☐ -
vnet3	1.25 Kbps	0 bps	☒ -

HYD BM KVM2 IP

Brige0 & bridge1

The screenshot shows the KVM2 Networking interface for bridge0 and bridge1. The left sidebar contains a search bar and a list of system components. The main panel displays the bridge0 and bridge1 configuration and a table of interface members.

Bridge0 Configuration:

- General: ☒ Connect automatically
- IPv4: Address 10.0.0.15/24 via 10.0.0.1 [edit](#)
- IPv6: Disabled [edit](#)
- MTU: Automatic [edit](#)
- Bridge: [edit](#)

Bridge1 Configuration:

- General: ☒ Connect automatically
- IPv4: Address 10.0.0.20/24 via 10.0.0.1 [edit](#)
- IPv6: Disabled [edit](#)
- MTU: Automatic [edit](#)
- Bridge: [edit](#)

Interface members:

Name	Sending	Receiving
bridge0	18.4 Kbps	6.43 Kbps
bridge1	591 bps	2.99 Kbps
eno12399	Inactive	
eno12419	Inactive	
eno12429	Inactive	
eno8303	Inactive	
eno8403	Inactive	
ens2fnp1	Inactive	
idrac	Inactive	
virbr0	No carrier	

Bridge0 ports

The screenshot shows the NetworkManager GUI for bridge0. The left sidebar contains a search bar and a list of system components. The main panel displays the configuration for bridge0, including its MAC address, status, carrier, and general settings. The 'Interface members' table lists the ports connected to the bridge and their traffic statistics.

bridge0 Bridge 14:23:F2:46:95:70

Status: On

Carrier: Yes

General: ☒ Connect automatically

IPv4: Address 10.172.98.1, DNS 1.82

IPv6: Disabled

MTU: Automatic

Bridge: [edit](#)

Interface members

Ports	Sending	Receiving	Actions
ens2f0np0	10.6 Mbps	1.44 Mbps	toggle minus
vnet0	61.6 Kbps	282 Kbps	toggle minus
vnet16	877 Kbps	8.42 Mbps	toggle minus
vnet2	65.2 Kbps	20.5 Kbps	toggle minus
vnet6	2.18 Mbps	1.94 Mbps	toggle minus

Bridge1 ports

The screenshot shows the NetworkManager GUI for bridge1. The left sidebar is identical to the previous screenshot. The main panel displays the configuration for bridge1, including its MAC address, status, carrier, and general settings. The 'Interface members' table lists the ports connected to the bridge and their traffic statistics. Above the configuration, there are two line graphs showing transmitting and receiving traffic over time.

bridge1 Bridge 00:62:00:4F:98:57

Status: On

Carrier: Yes

General: ☒ Connect automatically

IPv4: Address 10.0.0.15/24

IPv6: Disabled

MTU: Automatic

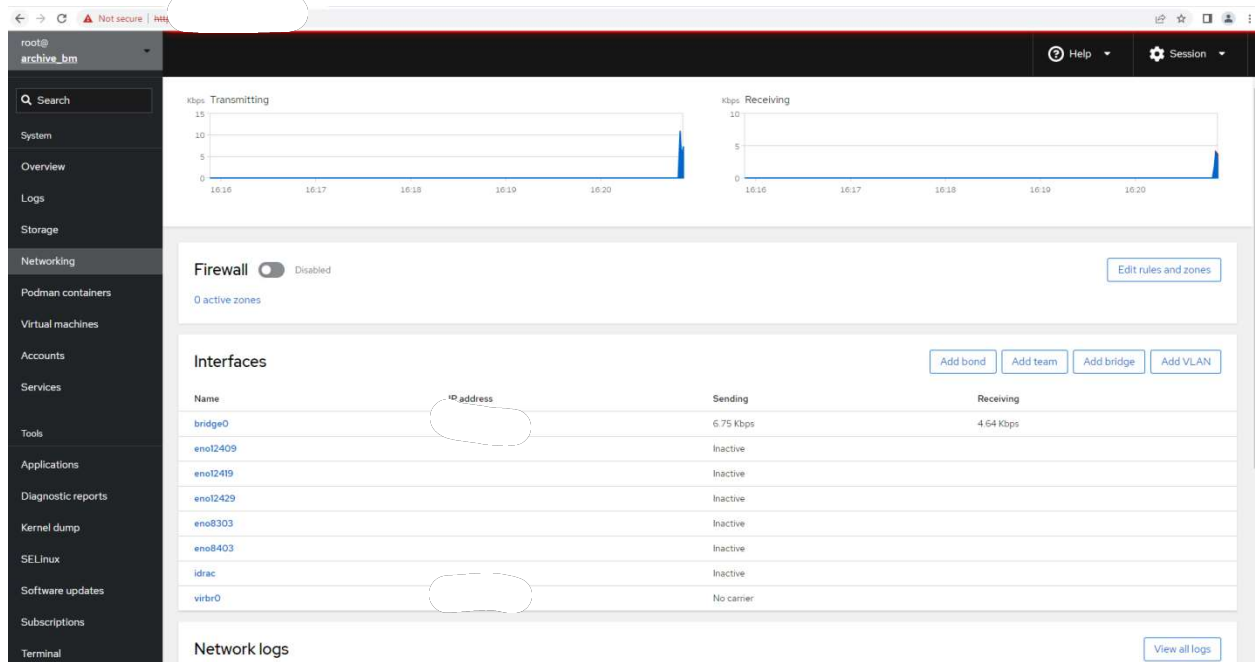
Bridge: [edit](#)

Interface members

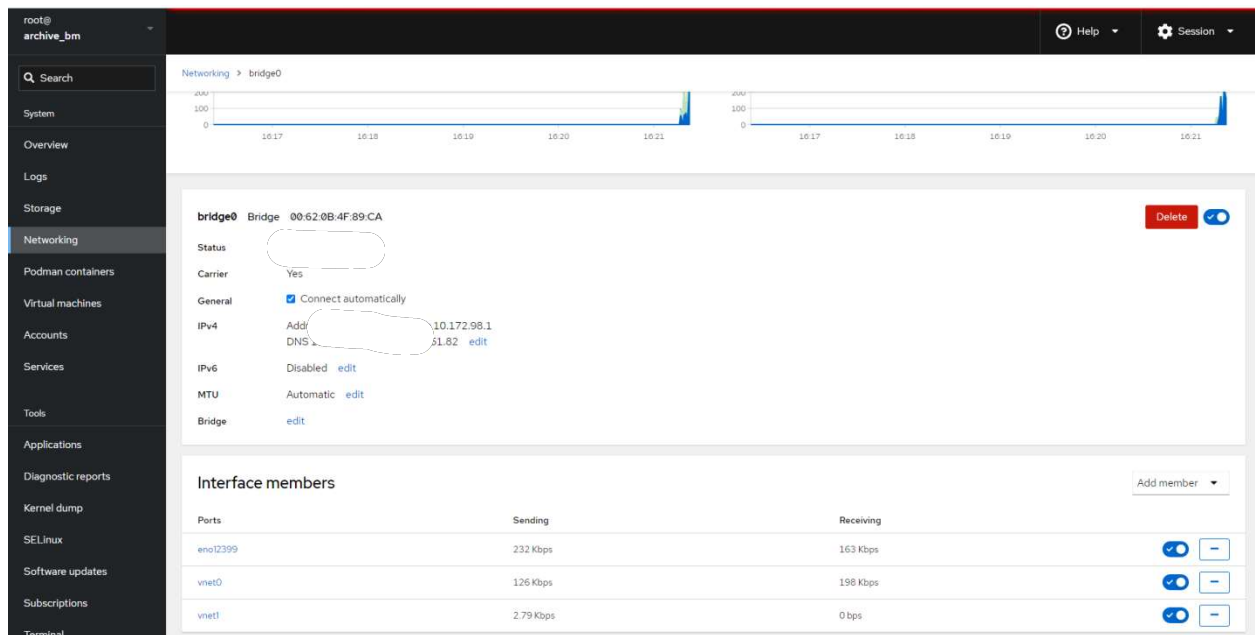
Ports	Sending	Receiving	Actions
eno2409	1.25 Kbps	1.31 Kbps	toggle minus
vnet7	768 bps	0 bps	toggle minus

HYD BM Archive : If

Bridge0 ports

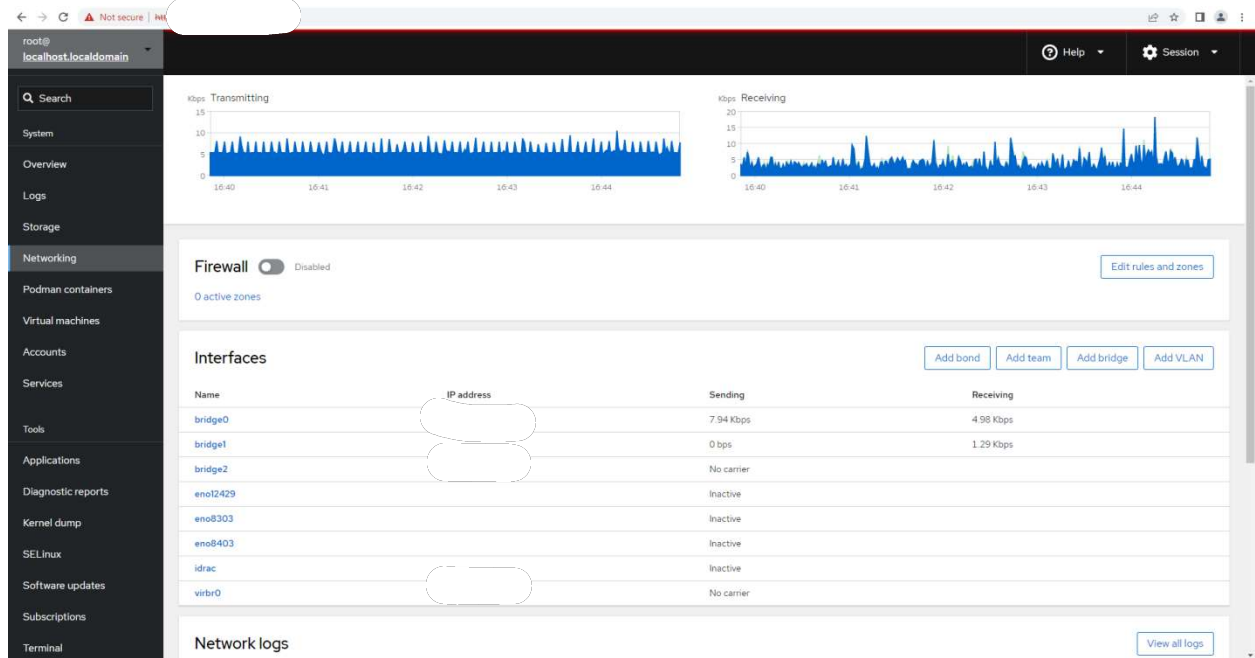


Bridge0 ports

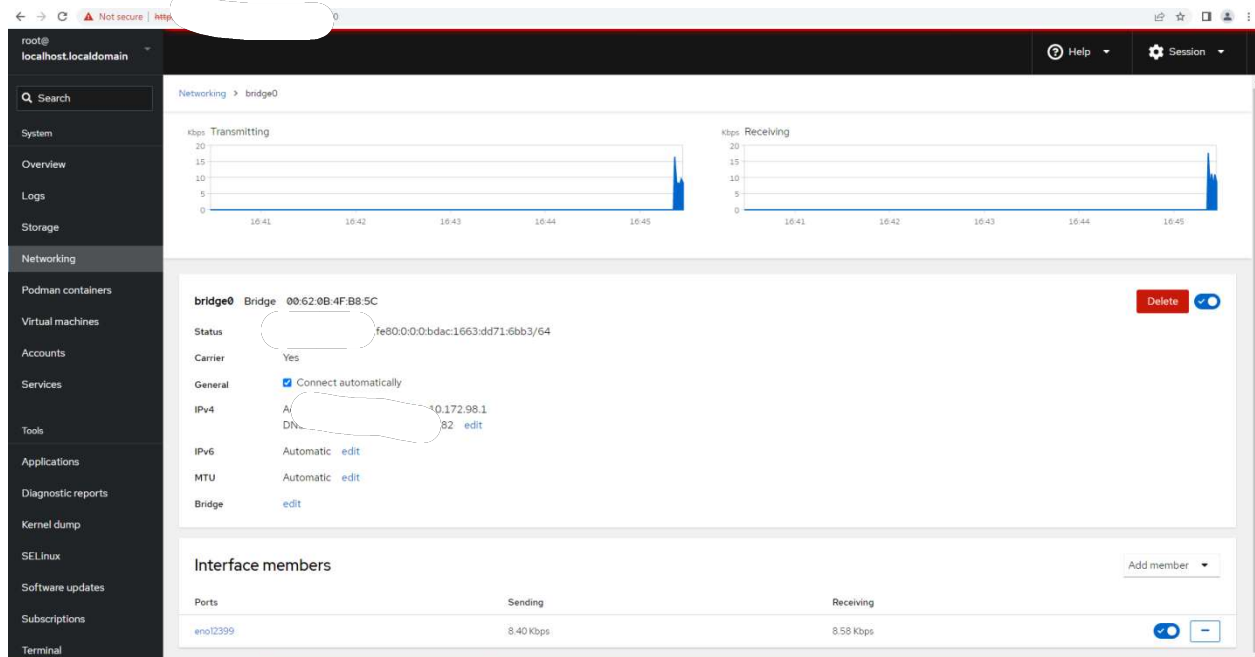


HYD Internal KSMG Anunet: IP [redacted]

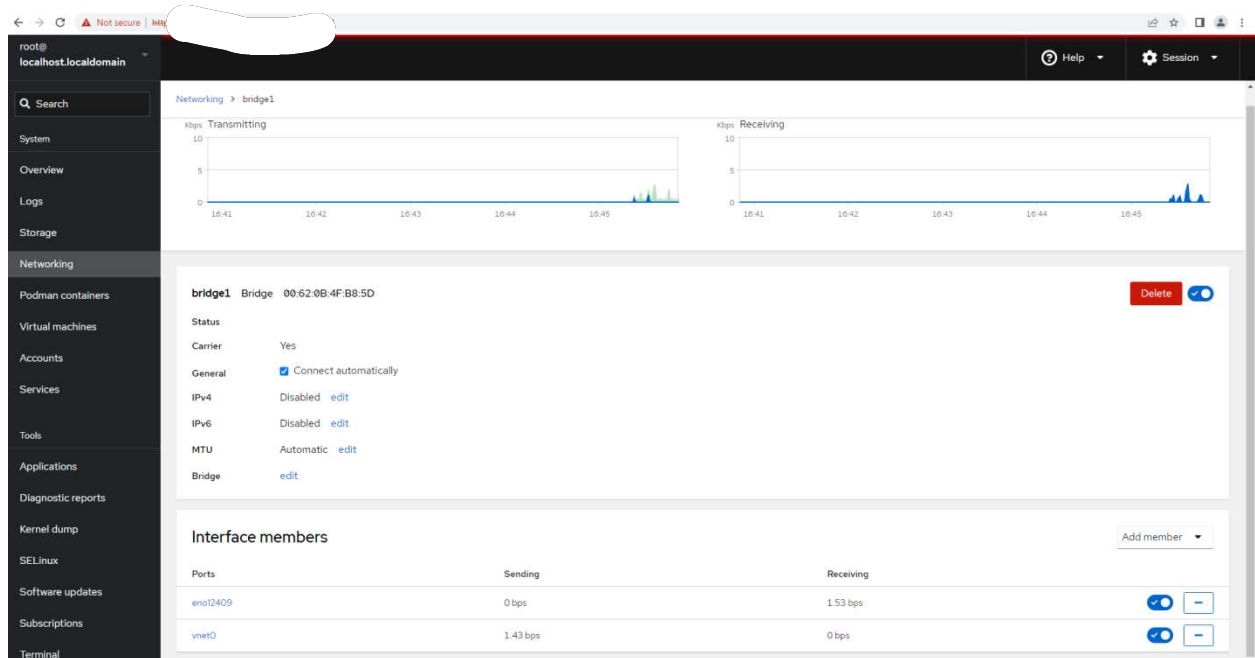
Bridge0 & bridge1



Bridge0 ports



Bridge1 ports



22. To enable SSL certificate for mails

- We have to login HAProxy 1 & 2 in all 3 locations, IP's mentioned below
- HYD HAProxy 1 & 2
- KOTA HAProxy 1 & 2
- ZC HAProxy 1 & 2

Commands to enter the path

cd /etc/haproxy/certs/

ls

```
[root@HAProxy1 ~]# cd /etc/haproxy/certs/
[root@HAProxy1 certs]# ls
bundle_old.pem  bundle.pem  cert.pem  csr.pem  key.pem  ssl.pem  star_nfc.pem
[root@HAProxy1 certs]#
```

- For Previous file we are taking backup file name bundle.pem renamed as bundle_old.pem
- We combined 3 SSL files into a new file named as bundle-new-4.pem

cat privatekey.key EndEntity_wc.nfc.gov.in.cer 'CA_emSign SSL CA - G1.cer' > bundle-new-4.pem

mv bundle-new-4.pem bundle.pem (we renamed bundle-new-4.pem as bundle.pem)

```
154 systemctl status haproxy
155 cd /etc/haproxy/certs
156 ls
157 mv bundle.pem bundle_old.pem
158 ls
159 mv bundle-new-4.pem bundle.pem
160 ls
161 systemctl restart haproxy
162 systemctl status haproxy
163 history
```

- After making changes we need to restart the HAProxy services
- After restart check the status commands are mentioned below

systemctl restart haproxy

systemctl status haproxy

Chat SSL certificate:

IP

cd /etc/nginx/

ls

ll

```
[root@chat ~]#
[root@chat ~]#
[root@chat ~]# cd /etc/nginx/
[root@chat nginx]#
[root@chat nginx]#
[root@chat nginx]# ls
certificate.crt  certificate_old.crt  conf.d             fastcgi.conf        fastcgi_params      koi-utf             mime.types          nginx.conf          sgi_params          uwsgi_params        win-utf
certificate.key  certificate_old.key  default.d          fastcgi.conf.default fastcgi_params.default koi-win             mime.types.default  nginx.conf.default sgi_params.default  uwsgi_params.default win-utf
[root@chat nginx]#
[root@chat nginx]#
[root@chat nginx]#
[root@chat nginx]# ll
total 88
-rw-r--r-- 1 root root 2198 May 23 11:53 certificate.crt
-rw-r--r-- 1 root root 1708 May 23 11:53 certificate.key
-rw-r--r-- 1 root root 7856 Aug 31 2023 certificate_old.crt
-rw-r--r-- 1 root root 1704 Aug 31 2023 certificate_old.key
drwxr-xr-x 2 root root  23 Jul 15 09:46 conf.d
drwxr-xr-x 2 root root  6 Aug 30 2019 default.d
-rw-r--r-- 1 root root 1077 Aug 30 2019 fastcgi.conf
-rw-r--r-- 1 root root 1077 Aug 30 2019 fastcgi.conf.default
-rw-r--r-- 1 root root 1007 Aug 30 2019 fastcgi_params
-rw-r--r-- 1 root root 1007 Aug 30 2019 fastcgi_params.default
-rw-r--r-- 1 root root 2837 Aug 30 2019 koi-utf
-rw-r--r-- 1 root root 2223 Aug 30 2019 koi-win
-rw-r--r-- 1 root root 5170 Aug 30 2019 mime.types
-rw-r--r-- 1 root root 5170 Aug 30 2019 mime.types.default
-rw-r--r-- 1 root root 2469 Aug 30 2019 nginx.conf
-rw-r--r-- 1 root root 2656 Aug 30 2019 nginx.conf.default
-rw-r--r-- 1 root root 636 Aug 30 2019 sgi_params
-rw-r--r-- 1 root root 636 Aug 30 2019 sgi_params.default
-rw-r--r-- 1 root root 664 Aug 30 2019 uwsgi_params
-rw-r--r-- 1 root root 664 Aug 30 2019 uwsgi_params.default
-rw-r--r-- 1 root root 3610 Aug 30 2019 win-utf
[root@chat nginx]#
```

We have taken backup old files as certificate_old.crt certificate_old.key

mv certificate.crt certificate_old.crt

mv certificate.key certificate_old.key

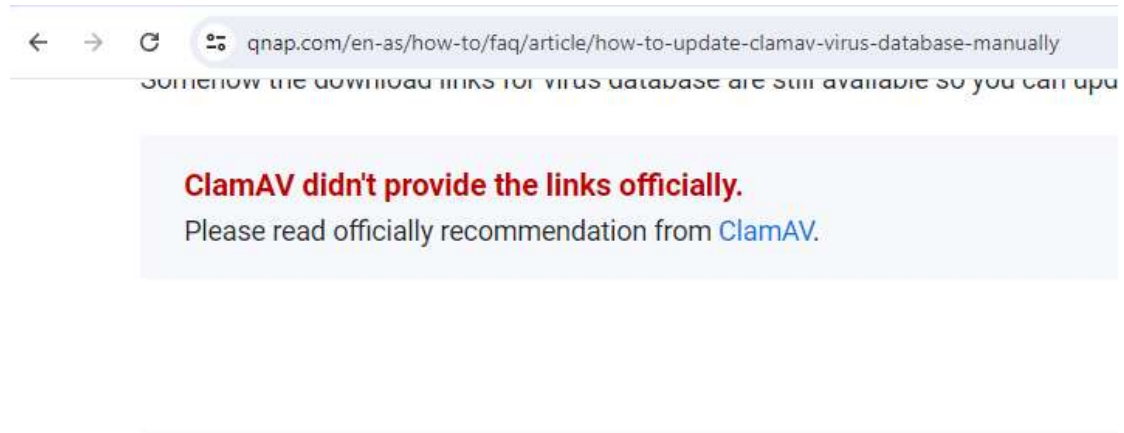
After adding new ssl certificate file, We need to restart the service

systemctl restart nginx

SOP for Antivirus updation on Email Systems:

1. Download latest updates from website using the following links

<https://www.qnap.com/en-as/how-to/faq/article/how-to-update-clamav-virus-database-manually>



1. Download 3 virus database files from links below:

<http://database.clamav.net/daily.cvd>

<http://database.clamav.net/main.cvd>

<http://database.clamav.net/bytecode.cvd>

2. Process to update ClamAV & Process for placing the files on 

```
[root@antivirus-hydnfc ~]#  
[root@antivirus-hydnfc ~]#  
[root@antivirus-hydnfc ~]# cd /clamav_backup/  
[root@antivirus-hydnfc clamav_backup]#  
[root@antivirus-hydnfc clamav_backup]# ls  
bytecode.cvd  daily.cvd  main.cvd  
[root@antivirus-hydnfc clamav_backup]#  
[root@antivirus-hydnfc clamav_backup]# rm -rf bytecode.cvd daily.cvd main.cvd
```

cd /clamav_backup/

```
#ls
bytecode.cvd daily.cvd main.cvd
#rm -rf bytecode.cvd daily.cvd main.cvd
```

```
[root@antivirus-hydnfc ~]#
[root@antivirus-hydnfc ~]#
[root@antivirus-hydnfc ~]# cd /var/www/html/clamavdb
[root@antivirus-hydnfc clamavdb]#
[root@antivirus-hydnfc clamavdb]#
[root@antivirus-hydnfc clamavdb]# ls
bytecode-334.cdiff bytecode.cvd daily-27184.cdiff daily.cvd dns.txt main-62.cdiff main.cvd
[root@antivirus-hydnfc clamavdb]#
[root@antivirus-hydnfc clamavdb]#
[root@antivirus-hydnfc clamavdb]# mv bytecode.cvd daily.cvd main.cvd
```

- We will take backup for old updated files in clamav_backup folder

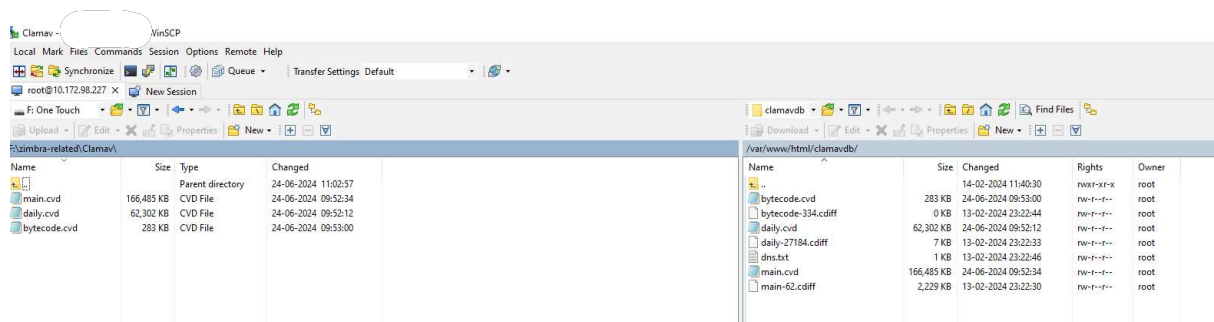
```
# cd /var/www/html/clamavdb
# mv bytecode.cvd daily.cvd main.cvd /clamav_backup
```

- After taking backup from /var/www/html/clamavdb folder to clamav_backup folder

3. Procedure for Verify and copy the downloaded files from Internet to NFCNet :

- After downloading from internet we will place those files in antivirus server with the help of hardisk
- Through Winscp We will copy the files after downloading from internet

Winscp:



```
# cd /var/www/html/clamavdb
# ls
bytecode-334.cdiff bytecode.cvd daily-27184.cdiff daily.cvd dns.txt main-62.cdiff main.cvd
```

```
[root@antivirus-hydnfc ~]# cd /var/www/html/clamavdb
[root@antivirus-hydnfc clamavdb]#
[root@antivirus-hydnfc clamavdb]#
[root@antivirus-hydnfc clamavdb]# ls
bytecode-334.cdifff bytecode.cvd daily-27184.cdifff daily.cvd dns.txt main-62.cdifff main.cvd
[root@antivirus-hydnfc clamavdb]#
```

4. Verification procedure:

```
[root@mtal-hyd ~]#
[root@mtal-hyd ~]# /opt/zimbra/common/bin/freshclam --version --config-file=/opt/zimbra/conf/freshclam.conf
WARNING: Ignoring deprecated option SafeBrowsing at /opt/zimbra/conf/freshclam.conf:222
ClamAV 0.105.2/27336/Sun Jul 14 14:03:25 2024
[root@mtal-hyd ~]#
```

/opt/zimbra/common/bin/freshclam --version --config-file=/opt/zimbra/conf/freshclam.conf

Result:

ClamAV 1.0.1/27313/Fri Jun 21 13:58:08 2024

Change Mail Routing from UUCP to Anunet and Vice Versa

Switch to zimbra user after login to the both Hyderabad MTA servers, IP's mentioned below
IP's : () and ()

Open #Cd /opt/zimbra/common/conf/transportfile

ls

Cat transportfile

```
[zimbra@mta2-hyd ~]$  
[zimbra@mta2-hyd ~]$  
[zimbra@mta2-hyd ~]$ cd /opt/zimbra/common/conf/  
[zimbra@mta2-hyd conf]$  
[zimbra@mta2-hyd conf]$  
[zimbra@mta2-hyd conf]$ ls  
LICENSE  bounce.cf.default  group1_transport.lmdb  group2_transport.lmdb  local_domains.lmdb  makedefs.out  postfix-files  restricted_senders.lmdb  tag_as_foreign.re.in  transportfile  transportfile-.lmdb  transportfile-.lmdb  
tls_license  canonical  group1_transport-  group2_transport-  header_checks  main.cf  master.cf  master.cf.in  relocated  restricted_senders-  smp.conf  tag_as_foreign.re  tag_as_originating.re.in  transportfile.lmdb  transportfile.test.lmdb  virtual  
aliases  group1_transport  group2_transport.db  local_domains  main.cf.default  master.cf  master.cf.in  relocated  restricted_senders  tag_as_foreign.re  tag_as_originating.re.in  transportfile  transportfile-.lmdb  transportfile-.lmdb  
[zimbra@mta2-hyd conf]$  
[zimbra@mta2-hyd conf]$  
[zimbra@mta2-hyd conf]$ cat transportfile  
manifo.gov.in  
rrcat.gov.in  
barc.gov.in  
igcar.gov.in  
dae.gov.in  
npcil.co.in  
aerb.gov.in  
mum.hwb.gov.in  
man.hwb.gov.in  
brd.hwb.gov.in  
haz.hwb.gov.in  
kot.hwb.gov.in  
tha.hwb.gov.in  
tal.hwb.gov.in  
tut.hwb.gov.in  
vecc.gov.in  
dpsdae.gov.in  
[zimbra@mta2-hyd conf]$  
[zimbra@mta2-hyd conf]$  
[zimbra@mta2-hyd conf]$
```

To change the routing from anunet to int IMSVA

vi transportfile

After opening we need to give # comment for domains in both mta1 & mta2 as shown below image

After giving # comment we need to run postmap, command given below

postmap transportfile (in both MTA's)

```
smsnfc.gov.in  
rrcat.gov.in  
barc.gov.in :[1/1]  
igcar.gov.in  
dae.gov.in :  
npcil.co.in :  
aerb.gov.in  
mum.hwb.gov.in  
man.hwb.gov.in  
brd.hwb.gov.in  
haz.hwb.gov.in  
kot.hwb.gov.in  
tha.hwb.gov.in  
tal.hwb.gov.in  
tut.hwb.gov.in  
#vecc.gov.in  
dpsdae.gov.in  
~  
~  
~  
~  
~
```


After running postmap in both MTA's mails go through internet IMSVA

To revert back to anunet gateway repeat the step uncommenting and run #postmap transportfile in both MTA's

Account Setup Status of User Accounts Admin Console:

Active: Mail account can open and operate

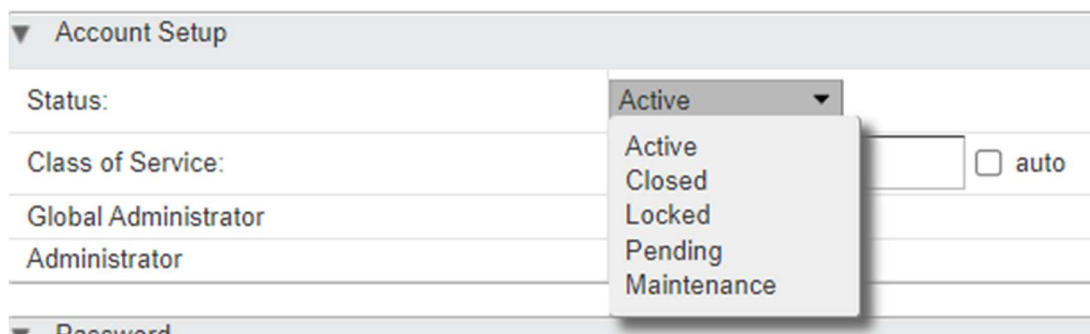
Closed: Mail account can't be opened, mails won't be received and can't be sent by end user.

Locked: Mail account will can't open mails can receive can send by end user.

Pending: Mail account can't be opened, mails won't be received and can't be sent by end user.

Maintenance: Mail account will can't open mails can receive can send by end user.

Please find the below step's:



The screenshot shows a web interface for 'Account Setup'. A dropdown menu for 'Status' is open, displaying five options: 'Active', 'Closed', 'Locked', 'Pending', and 'Maintenance'. To the right of the 'Status' field is a checkbox labeled 'auto'. Below the 'Status' field, the 'Class of Service' field is visible. Further down, the 'Global Administrator' and 'Administrator' fields are shown. At the bottom, a 'Password' field is partially visible.

1. **Active:** Active Normal state for mailbox account. Mail is delivered and users can log in to the client interface. The account is fully active and operational. The user can log in, send, and receive emails without there restrictions.

2. **Closed:** When a domain status is marked as closed, Login for accounts on the domain is disabled and messages are bounced The user cannot log in or access the account.

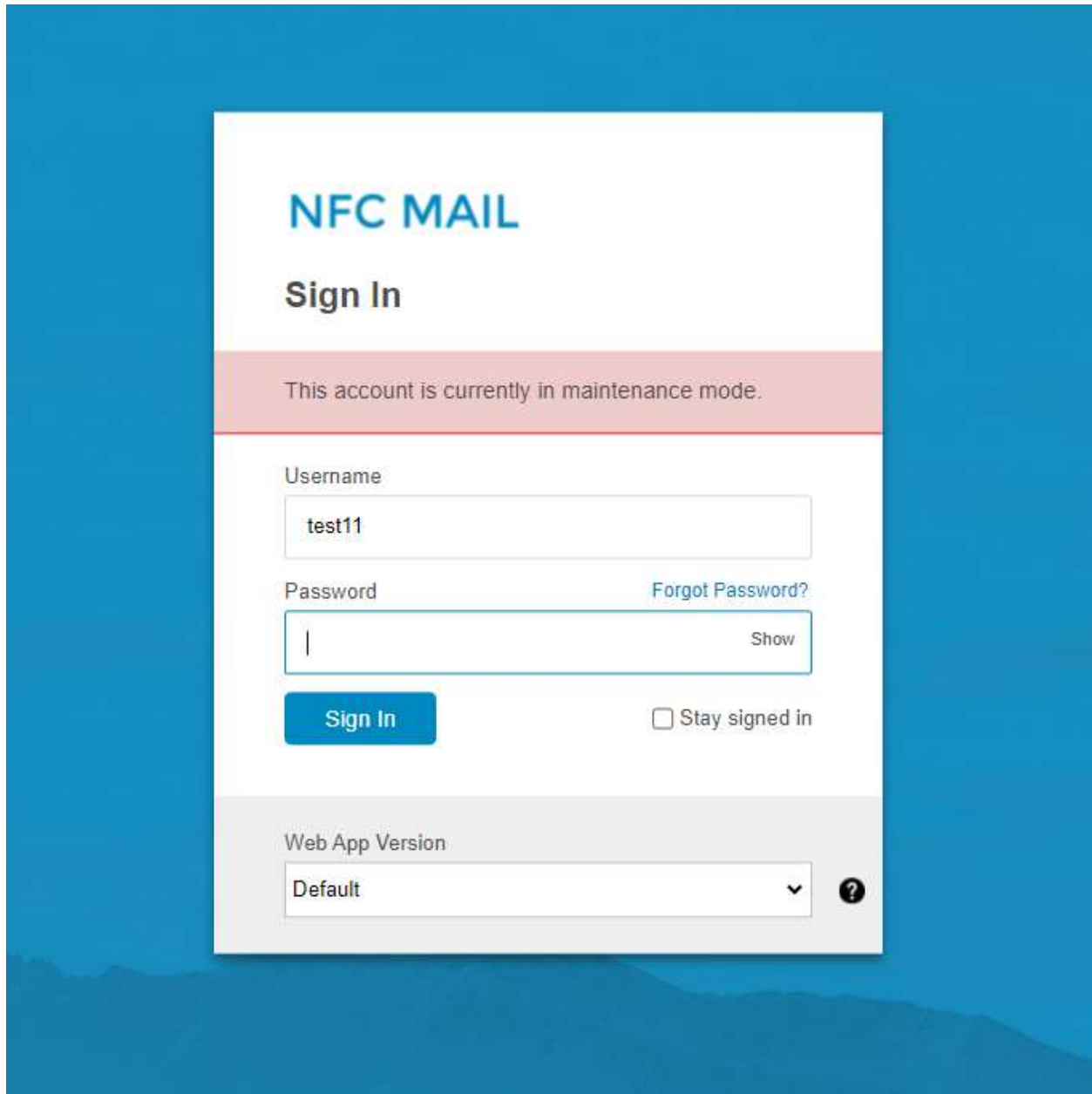
3. **Locked:** The account is locked. The user cannot log in, but incoming emails are still accepted and delivered to the mailbox, Used as a temporary measure when an account needs to be suspended without rejecting incoming emails, such as during an investigation or security concern.

4. **Pending:** The account is pending activation. It is not yet active, and the user cannot log in or use the account. Used for accounts that have been created but are awaiting some form of approval or activation process.

5. **Maintenance:** The account is in maintenance mode. The user cannot log in, and incoming emails will receive. Used when an account needs to be temporarily disabled for maintenance purposes, such as data migration or troubleshooting.

Please find the image below for Maintenance mode:

This account is currently in maintenance mode.



The image shows a web application interface for 'NFC MAIL'. The page has a blue background with a white central card. The card contains the title 'NFC MAIL' in blue, followed by 'Sign In' in bold black. A red banner displays the message 'This account is currently in maintenance mode.' Below this, there are input fields for 'Username' (containing 'test11') and 'Password' (with a 'Show' button). A 'Forgot Password?' link is next to the password field. A blue 'Sign In' button is present, along with a 'Stay signed in' checkbox. At the bottom, a 'Web App Version' dropdown menu shows 'Default' and a help icon.

NFC MAIL

Sign In

This account is currently in maintenance mode.

Username

test11

Password [Forgot Password?](#)

| Show

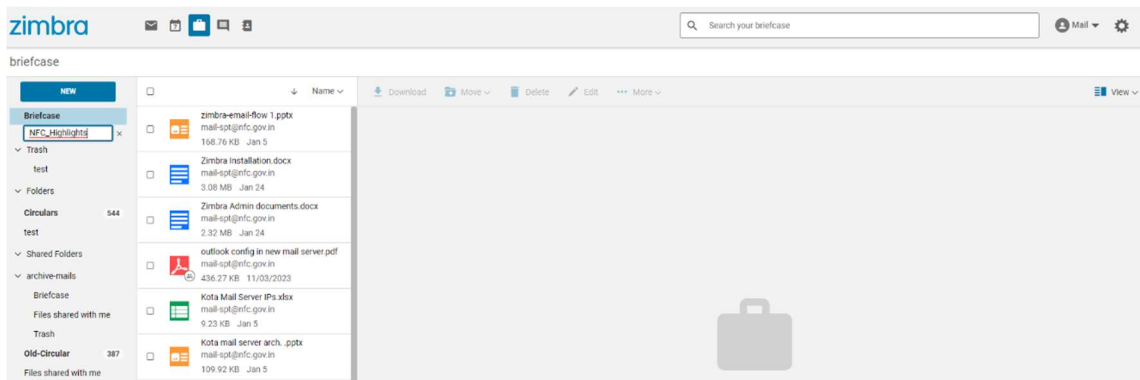
Sign In ☐ Stay signed in

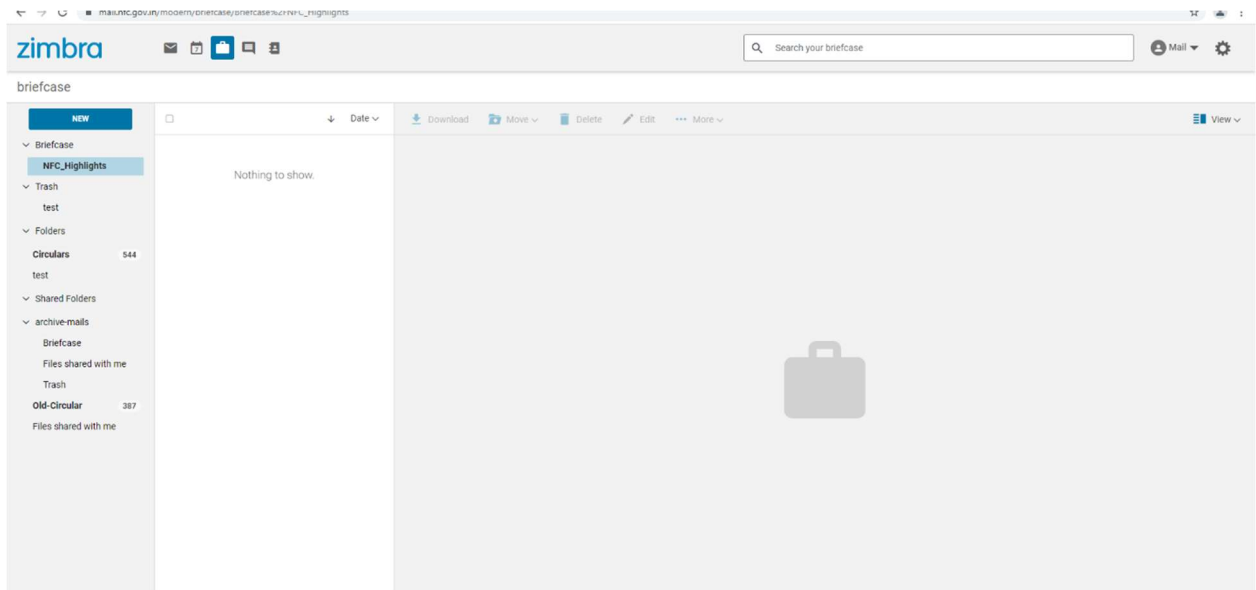
Web App Version

Default ▼ ?

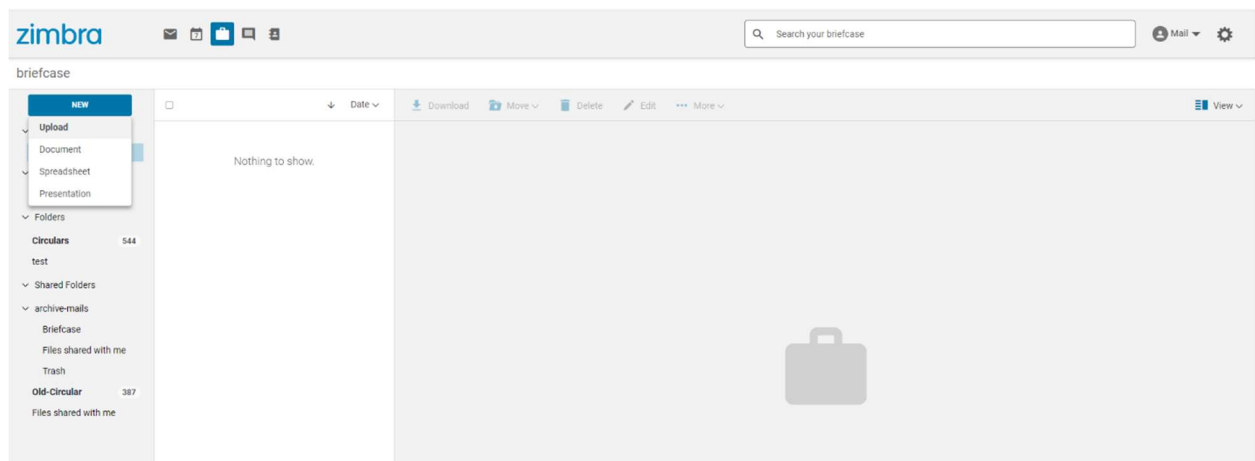
BRIEFCASE SHARE FOLDER

- Briefcase is used to share a document/files to anyone of the user.
 1. Please login to mail your account.
 2. Go to Briefcase and select folder.
 3. Under briefcase we have created one folder nfc_highlights.
 4. Right click on that folder.
 5. Please find the below images.

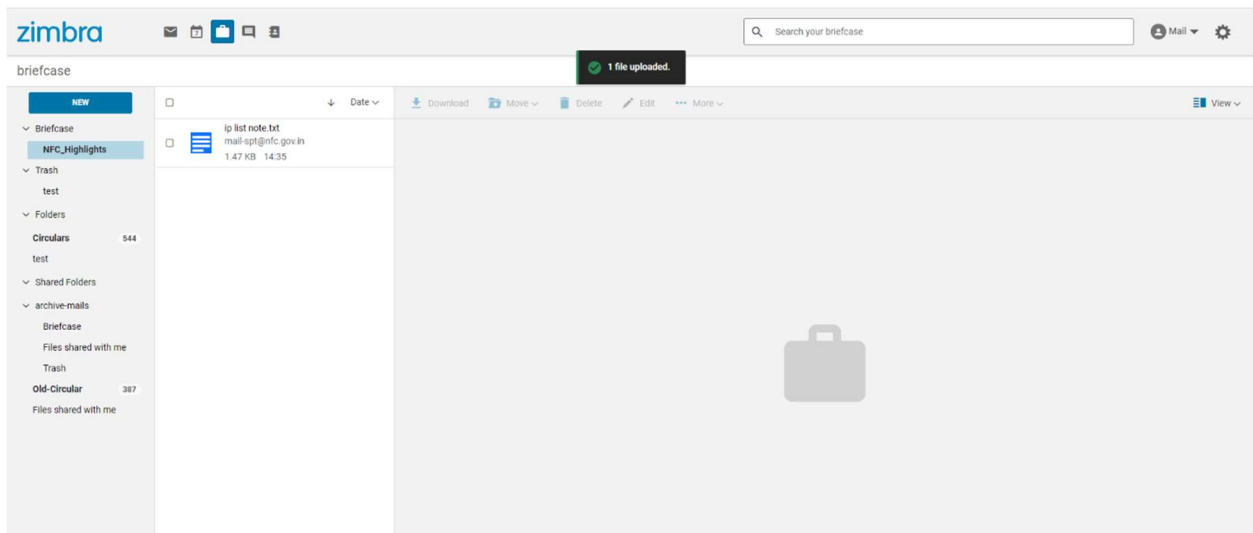




- Upload a document.
- Please find the below image.



- Upload a document under nfc_highlights folder.
- Please find below image.



- Right click on nfc_highlights folder.
- Share folder with view or editable permissions.
- Please find below image.

