

The background features a series of concentric circles, some solid and some dashed, in a light gray color. A large, solid green oval is positioned in the center-right of the frame. A thick, dark gray curved line sweeps from the bottom left towards the center, partially overlapping the green oval.

SMTP Objectives Tasks in PDF file

SMTP (Postfix) Objectives

1. Configure postfix on client machine as a null client to relay email from local system through server.example.com. All outgoing mail should have their sender domain as **example.com**.
 - a) Postfix process should not accept mail from external sources.
 - b) Hostname should not be sent in the From field.
 - c) Only ipv4 protocol should be used.

Commands: (On client.example.com)

yum install postfix (To install Postfix Service)

systemctl start postfix (To start postfix service)

systemctl enable postfix (To enable postfix Service to start at boot)

vim /etc/postfix/main.cf (To define null client)

myhostname = client.example.com

mydomain = example.com

myorigin = \$mydomain (To set myorigin to mydomain –example.com, domain ‘example.com’ will be sent in From field of mail)

inet_interfaces = localhost (To accept mail from local host only ,restricting external hosts)

inet_protocols = ipv4 (To disable ipv6,as per task requirements)

mydestination = (Not required for NULL Client, make it empty)

mynetworks = 127.0.0.0/8

relayhost = [server.example.com] (Hostname of central Email server to which mail will be relayed)

:wq

systemctl reload postfix (To reload the service to make the changes effective)

postfix check (To check the config file for errors if any, in mentioning different parameters)

To verify different parameters defined in /etc/postfix/main.cf configuration file

`postconf myorigin`

`postconf mydomain`

`postconf mydestination`

`postconf mynetworks`

`postconf relayhost`

`postconf inet_intefaces`

`postconf inet_protocols`

Alternate method to make changes in config file using postconf

`postconf -e 'myorigin=$mydomain'`

`postconf -e 'mydomain=example.com'`

`postconf -e 'mydestination= '`

`postconf -e 'mynetworks=127.0.0.0/8'`

`postconf -e 'inet_interfaces=localhost'`

`postconf -e 'inet_protocols=ipv4'`

Test Sending mail as root to root@server.example.com

`mail -s root@server.example.com <.`

`postqueue -p` (To check the mail queue)

2. Configure postfix on Server machine as central email server which can receive mail from domain **example.com**.

Commands: (On server.example.com)

```
yum install postfix (To install Postfix Service)

systemctl start postfix (To start postfix service)

systemctl enable postfix (To enable postfix Service to start at boot)

vim /etc/postfix/main.cf (To define Central Email Server )

inet_interfaces = all (To accept traffic on all interfaces)

inet_protocols = ipv4 (To accept only ipv4 traffic)

mydestination = example.com,server.example.com (Responsible for example.com domain and server.example.com (localhost))

:wq

systemctl reload postfix (To reload the service to make the changes effective)

postfix check (To check the config file for errors if any, in mentioning different parameters)
```

Alternate method to make changes in config file using postconf

```
postconf -e 'mydestination= example.com,server.example.com'

postconf -e 'inet_interfaces=all'

postconf -e 'inet_protocols=ipv4'

systemctl reload postfix (To reload the service to make the changes effective)

postfix check (To check the config file for errors if any, in mentioning different parameters)
```

firewall-cmd --add-service=smtp --permanent (To configure firewall to accept inbound smtp traffic)

firewall-cmd --reload (To reload the firewall to make the changes effective)

systemctl reload postfix (To reload the service to make the changes effective)

Commands: (On client.example.com)

postqueue -p (To check the mails in queue)

postqueue -f (To flush the mailbox or to force email sending)

Verify with “mail” command (as root) on server.example.com , mail is received on server and hostname is not sent in From field.

3. Send mail from client machine as riya user to root@server.example.com and verify hostname is not sent in from field.

Commands: (On client.example.com)

su - riya

mail -s riya root@server.example.com

Hi,

This is Riya

.

EOT

postqueue -p (to check the mail queue ,it should be empty in ideal cases)

Commands: (On server.example.com)

mail (To verify mail is received from Riya and hostname is not sent in From Sender side)