SMTP

- ❖ SMTP, or Simple Mail Transfer Protocol, is a communication protocol used for sending emails across networks.
- ❖ It defines how email messages are transmitted between servers and from clients to servers, ensuring reliable and efficient email delivery.

Packages required: Postfix
Port No:25
Configuration file: /etc/postfix/main.cf
Service:postfix

Step1:Install the packages

```
[root@server ~]# yum install postfix
Last metadata expiration check: 2:19:25 ago on Sat 20 Jul 2024 08:37:55 AM IST.
Dependencies resolved.
==================================================================================
 Package                Architecture        Version                Repository                  Size
==================================================================================
Installing:
 postfix                x86_64              2:3.5.9-18.el9          Localrepo_AppStream         1.5 M

Transaction Summary
==================================================================================
Install  1 Package
```

Step2:check the configuration add it

inet_interfaces = all
#inet_interfaces = localhost
myhostname = server.gowthaman.com
mydomain = gowthaman.com

vi /etc/postfix/main.cf

```
#myhostname = host.domain.tld
myhostname = server.gowthaman.com

# The mydomain parameter specifies the local internet domain name.
# The default is to use $myhostname minus the first component.
# $mydomain is used as a default value for many other configuration
# parameters.
#
mydomain = gowthaman.com
```

```
#
inet_interfaces = all
#inet_interfaces = $myhostname
#inet_interfaces = $myhostname, localhost
#inet_interfaces = localhost

# Enable IPv4, and IPv6 if supported
inet_protocols = all
```

Step3:Restart the service and check the status firewalld

```
 # systemctl restart postfix.service
# systemctl status firewalld.service
# setenforce 0
```

Step4:Install the status s-nail to verify the command

yum install s-nail

```
[root@server ~]# yum install s-nail
Last metadata expiration check: 2:27:10 ago on Sat 20 Jul 2024 08:37:55 AM IST.
Package s-nail-14.9.22-6.el9.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
```

Step5:create the useradd and mail -s and add the subject and add the user and add the content also to verify it

```
# useradd ak
# mail -s "welcome to SMTP" ak@localhost
```

```
[root@server ~]# mail -s "welcome to SMTP" ak@localhost
To: ak@localhost
Subject: welcome to SMTP

Today Class is Completed
^D
-------
(Preliminary) Envelope contains:
To: ak@localhost
Subject: welcome to SMTP
Send this message [yes/no, empty: recompose]? yes
```

Step6:switch the user and mail command is using to verify it

 # su - ak
$ mail

```
[root@server ~]# su - ak
[ak@server ~]$ mail
s-nail version v14.9.22.  Type `?' for help
/var/spool/mail/ak: 1 message 1 new
▶N  1 root                 2024-07-20 11:11   15/505    "welcome to SMTP
& 1
[-- Message  1 -- 15 lines, 505 bytes --]:
Date: Sat, 20 Jul 2024 11:11:17 +0530
To: ak@localhost
Subject: welcome to SMTP
Message-Id: <20240720054117.C33E02521A54@server.gowthaman.com>
From: root <root@server.gowthaman.com>

Today Class is Completed

& q
Held 1 message in /var/spool/mail/ak
```

Aliases

❖ An SMTP alias server is a server configured to handle email forwarding or redirection.
❖ It maps email addresses to different email addresses, allowing messages sent to one address to be automatically forwarded to another.
❖ This is often used to simplify email management and ensure messages reach the correct recipient.

Step1:Check the configuration and add the user

vi /etc/aliases

```
info:               postmaster
marketing:          postmaster
sales:              postmaster
support:            postmaster
royalteam:          vijay,ak
```

Step2:Restart the service

newaliases
systemctl restart postfix.service

Step3:check the command is mail -s and subject and user to check it and content also viewed

mail -s "Team works" royalteam

```
[root@server ~]# mail -s "Team works" royalteam
To: royalteam
Subject: Team works

welcome to vsphere technologies
^D
-------
(Preliminary) Envelope contains:
To: royalteam
Subject: Team works
Send this message [yes/no, empty: recompose]? yes
```

Step4:Switch the user checking command is mail

su - ak
 Mail

```
[root@server ~]# su - ak
[ak@server ~]$ mail
s-nail version v14.9.22.  Type `?' for help
/var/spool/mail/ak: 3 messages 1 new
     1 root                   2024-07-20 11:11   16/516    "welcome to SMTP
     2 root                   2024-07-20 11:25   16/556    "welcome to SMTP
►N   3 root                   2024-07-21 08:56   15/540    "Team works
& 3
[-- Message  3 -- 15 lines, 540 bytes --]:
Date: Sun, 21 Jul 2024 08:56:35 +0530
To: royalteam@server.gowthaman.com
Subject: Team works
Message-Id: <20240721032635.461192521A70@server.gowthaman.com>
From: root <root@server.gowthaman.com>

welcome to vsphere technologies

& q
Held 3 messages in /var/spool/mail/ak
```

```
[root@server ~]# su - vijay
[vijay@server ~]$ mail
s-nail version v14.9.22.  Type `?' for help
/var/spool/mail/vijay: 2 messages 1 new
     1 root                   2024-07-20 11:25   16/556    "welcome to SMTP
►N   2 root                   2024-07-21 08:56   15/540    "Team works
& 2
[-- Message  2 -- 15 lines, 540 bytes --]:
Date: Sun, 21 Jul 2024 08:56:35 +0530
To: royalteam@server.gowthaman.com
Subject: Team works
Message-Id: <20240721032635.461192521A70@server.gowthaman.com>
From: root <root@server.gowthaman.com>

welcome to vsphere technologies

& q
Held 2 messages in /var/spool/mail/vijay
```

Step5:check the log status

tail -f /var/log/maillog

```
[root@server ~]# tail -f /var/log/maillog
Jul 21 08:55:30 server postfix/postfix-script[2754]: starting the Postfix mail system
Jul 21 08:55:30 server postfix/master[2756]: daemon started -- version 3.5.9, configuration /etc/postfix
Jul 21 08:56:35 server postfix/pickup[2757]: 461192521A70: uid=0 from=<root>
Jul 21 08:56:35 server postfix/cleanup[2766]: 461192521A70: message-id=<20240721032635.461192521A70@server.go
wthaman.com>
Jul 21 08:56:35 server postfix/qmgr[2758]: 461192521A70: from=<root@server.gowthaman.com>, size=381, nrcpt=1
(queue active)
Jul 21 08:56:35 server postfix/local[2772]: 461192521A70: to=<vijay@server.gowthaman.com>, orig_to=<royalteam
>, relay=local, delay=0.08, delays=0.05/0.02/0/0.01, dsn=2.0.0, status=sent (delivered to mailbox)
Jul 21 08:56:35 server postfix/local[2772]: 461192521A70: to=<ak@server.gowthaman.com>, orig_to=<royalteam>,
relay=local, delay=0.09, delays=0.05/0.02/0/0.01, dsn=2.0.0, status=sent (delivered to mailbox)
Jul 21 08:56:35 server postfix/qmgr[2758]: 461192521A70: removed
```