

mail

Installation

????? mail ??????

1. mailutils: ?? HTML ????????????? SMTP ??
2. Heirloom-mailx: RHEL 7/8 ????????? HTML ????????????? SMTP server?
3. BSD-mailx: ?? HTML ????????????? SMTP ??
4. Mutt: ?? HTML ??????
5. Sendmail: ?? HTML ????????????? SMTP ??

```
sudo apt install mailutils      # [On Debian, Ubuntu and Mint]
sudo yum install mailx          # [On RHEL/CentOS/Fedora and Rocky Linux/AlmaLinux]
sudo emerge -a mail-client/mailx # [On Gentoo Linux]
sudo pacman -S mailutils        # [On Arch Linux]
sudo zypper install mailutils   # [On OpenSUSE]
```

Alternative mailx

Debian ????? mailx ? heirloom-mailx???????? HTML Mail ?????? mailutils?

```
root@A2B:~/bin# dpkg --get-selections | grep mail
bsd-mailx    deinstall
heirloom-mailx    install
libmail-sendmail-perl    install
libmailtools-perl    install
libmailutils4    install
mailutils    install
mailutils-common    install

root@A2B:~/bin# update-alternatives --display mailx
mailx - auto mode

    link currently points to /usr/bin/heirloom-mailx
/usr/bin/heirloom-mailx - priority 60
    slave Mail: /usr/bin/heirloom-mailx
    slave Mail.1.gz: /usr/share/man/man1/heirloom-mailx.1.gz
```

```
slave mail: /usr/bin/heirloom-mailx
slave mail.1.gz: /usr/share/man/man1/heirloom-mailx.1.gz
slave mailx.1.gz: /usr/share/man/man1/heirloom-mailx.1.gz
/usr/bin/mail.mailutils - priority 30
slave mail: /usr/bin/mail.mailutils
slave mail.1.gz: /usr/share/man/man1/mail.mailutils.1.gz
slave mailx.1.gz: /usr/share/man/man1/mail.mailutils.1.gz
Current 'best' version is '/usr/bin/heirloom-mailx'.
```

```
root@A2B:~/bin# update-alternatives --config mailx
```

There are 2 choices for the alternative mailx (providing /usr/bin/mailx).

Selection	Path	Priority	Status
* 0	/usr/bin/heirloom-mailx	60	auto mode
1	/usr/bin/heirloom-mailx	60	manual mode
2	/usr/bin/mail.mailutils	30	manual mode

Press enter to keep the current choice[*], or type selection number: 2

```
update-alternatives: using /usr/bin/mail.mailutils to provide /usr/bin/mailx (mailx) in manual mode
```

??????

```
root@A2B:~/bin# update-alternatives --display mailx
```

```
mailx - manual mode
```

```
link currently points to /usr/bin/mail.mailutils
```

```
/usr/bin/heirloom-mailx - priority 60
```

```
slave Mail: /usr/bin/heirloom-mailx
```

```
slave Mail.1.gz: /usr/share/man/man1/heirloom-mailx.1.gz
```

```
slave mail: /usr/bin/heirloom-mailx
```

```
slave mail.1.gz: /usr/share/man/man1/heirloom-mailx.1.gz
```

```
slave mailx.1.gz: /usr/share/man/man1/heirloom-mailx.1.gz
```

```
/usr/bin/mail.mailutils - priority 30
```

```
slave mail: /usr/bin/mail.mailutils
```

```
slave mail.1.gz: /usr/share/man/man1/mail.mailutils.1.gz
```

```
slave mailx.1.gz: /usr/share/man/man1/mail.mailutils.1.gz
```

```
Current 'best' version is '/usr/bin/heirloom-mailx'.
```

```
root@A2B:~/bin# mail --version
```

```
mail (GNU Mailutils) 2.99.97
Copyright (C) 2010 Free Software Foundation, inc.
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
```

Text Mail

```
echo "MAIL BODY" | mail -s 'MAIL SUBJECT' receiver@domain_name

# Enter DOT or Ctrl-d to exit the CLI
mail -s "Test mail" receiver@domain_name
```

HTML Mail

NOTE: RHEL 7+ ? mailx ??????? HTML ?????????? mutt ? sendmail.postfix?

mailx (??)

```
echo "<b>HTML Message goes here</b>" | mail -s "$(echo -e "This is the subject\nContent-Type:
text/html")" receiver@domain_name
```

sendmail for Postfix

NOTE: ??????? postfix ?? MTA ??????? `sendmail.postfix`?

?? sendmail ???

```
└─[root@tpedevdb02:/worktmp/my_shell]
└─# which sendmail
/usr/sbin/sendmail

└─[root@tpedevdb02:/worktmp/my_shell]
└─# readlink /usr/sbin/sendmail
/etc/alternatives/mta
```

```
└─[root@tpedevdb02:/worktmp/my_shell]
└─# update-alternatives --display mta
mta - status is auto.
  link currently points to /usr/sbin/sendmail.postfix
/usr/sbin/sendmail.postfix - priority 30
  slave mta-mailq: /usr/bin/mailq.postfix
  slave mta-newaliases: /usr/bin/newaliases.postfix
  slave mta-pam: /etc/pam.d/smtp.postfix
  slave mta-rmail: /usr/bin/rmail.postfix
  slave mta-sendmail: /usr/lib/sendmail.postfix
  slave mta-mailqman: /usr/share/man/man1/mailq.postfix.1.gz
  slave mta-newaliasesman: /usr/share/man/man1/newaliases.postfix.1.gz
  slave mta-sendmailman: /usr/share/man/man1/sendmail.postfix.1.gz
  slave mta-aliasesman: /usr/share/man/man5/aliases.postfix.5.gz
Current `best' version is /usr/sbin/sendmail.postfix.
```

Sample #1

```
(
  echo "To: user@example.com"
  echo "Subject: HTML test"
  echo "Content-Type: text/html"
  echo
  cat file.html
) | sendmail.postfix -t
```

Sample #2

```
echo "FROM: info@mediasystemsfl.com
To: $email
Subject: $subject
Content-Type: text/html; charset=utf-8

<!DOCTYPE html>
<html><head>
<title>$subject</title>
<body>
<pre>
### Attention: Do not reply to this message. ###
```

```
$(Show_head)
```

```
$(Gen_asr_report)
```

NOTE: The symbol '<<<' indicates an ASR(Answer-Seizure Ratio) of less than \$thre%.

```
</pre>
```

```
</body>
```

```
</html>
```

```
" | /usr/sbin/sendmail -t
```

mutt on RHEL 7

```
echo "<b>HTML Message goes here</b>" | mutt -s "Test HTML Mail" -e "my_hdr Content-Type: text/html" user@my.com
```

Functions

```
# Show_head & Gen_asr_report are custom functions.
```

```
Send_mail() {
```

```
    subject="This is Mail Subject"
```

```
    email="user@email.com"
```

```
    echo -e "
```

```
### Attention: Do not reply to this message. ###
```

```
$(Show_head)
```

```
$(Gen_asr_report)
```

NOTE: The symbol '<<<' indicates an ASR(answer-seizure ratio) of less than \$thre%.

```
" | /usr/bin/mail -s "$subject" "$email"
```

```
}
```

Via SMTP Server

RHEL 7/8 ??? Heirloom-mailx ???????????? MTA ????????????

???????? SMTP

```
mail -v -S smtp=smtp://192.168.21.7:25 -s "Test SMTP" user@domain.tld
```

???????? SMTP

?? `~/.mailrc` ?????? `/etc/mail.rc` (? Gmail ??)

```
set smtp-use-starttls
set ssl-verify=ignore
set smtp=smtp://smtp.gmail.com:587
set smtp-auth=login
set smtp-auth-user=$FROM_EMAIL_ADDRESS
set smtp-auth-password=$EMAIL_ACCOUNT_PASSWORD
set from="$FROM_EMAIL_ADDRESS($FRIENDLY_NAME)"
```

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