

Test and Verification

Running the script to send an email to **multiple recipients** with **multiple attachments** at a **specific date and time** under **normal circumstances**:

```
[liveuser@localhost Downloads]$ ./test.sh
Specify sender email address: root@datacomm.local
root@datacomm.local has been added
Specify recipient email address: glitchytest@gmail.com
glitchytest@gmail.com has been added
Add another recipient? (y|n) y
Specify recipient email address: maxchung11@gmail.com
maxchung11@gmail.com has been added
Add another recipient? (y|n) n
Specify email subject: This is my email subject
Add an attachment? (y|n) y
Specify a directory that contains the attachments: /home/liveuser/Downloads
/home/liveuser/Downloads contains the following files:
logo.png
message.txt
test.sh
test.sh~
Specify the name of an attachment you want to include: logo.png
The logo.png has been added
Do you want to add another attachment? (y|n) y
Specify the name of an attachment you want to include: test.sh
The test.sh has been added
Do you want to add another attachment? (y|n) n
Enter your message: This is my email message
To: glitchytest@gmail.com, and maxchung11@gmail.com
From: root@datacomm.local

Subject: This is my email subject



Message: This is my email message


Attachments: logo.png, and test.sh
glitchytest@gmail.com maxchung11@gmail.com
1) Add a crontab entry to send the email 2) Send the email now 1
1) Specify date and time to send email (24 hour clock) 2) Specify time interval
to send email (minutes) 1
Specify the month (jan|feb|mar|apr|may|jun|jul|aug|sep|oct|nov|dec) oct
Specify the day 20
Specify the hour (24 hour clock) 16
Specify the minute 42
42 16 20 oct *
A backup copy of cron has been saved at /home/liveuser/Downloads/cronbackup Oct
[liveuser@localhost Downloads]$ █
```

Crontab entry that was generated:

```
42 16 20 oct * mail -c 'root@datacomm.local' -s 'This is my email subject' -a  
'/home/liveuser/Downloads/logo.png' -a '/home/liveuser/Downloads/test.sh' 'gli  
tchytest@gmail.com' 'maxchung11@gmail.com' < /home/liveuser/Downloads/message.  
txt
```

Resulting email to glitchtest@gmail.com


This is my email subject Inbox | X  

☆ from **Live System User** [hide details](#) 4:42 PM (1 minute ago)  [Reply to all](#) ▼

liveuser@localhost.localdomain
to maxchung11@gmail.com,
● glitchytest@gmail.com
cc root@datacomm.local
date Thu, Oct 20, 2011 at 4:42 PM
subject This is my email subject
📌 Important mainly because it was sent directly to you.

This is my email message

2 attachments — [Download all attachments](#)







logo.png
9K [View](#) [Download](#)

test.sh
14K [Download](#)

[Reply](#) [Reply to all](#) [Forward](#)


Resulting email to maxchung11@gmail.com

This is my email subject Inbox | X  


★ **Live System User**  liveuser@ [show details](#) 4:42 PM (2 minutes ago)  [Reply to all](#) ▼

This is my email message

2 attachments — [Download all attachments](#)



logo.png
9K [View](#) [Download](#)



test.sh
14K [Download](#)

[Reply](#) [Reply to all](#) [Forward](#)

Running the script to send an email to a **single recipient** with **no attachments** at a **specific time interval** under **normal circumstances**:

```
[liveuser@localhost Downloads]$ ./test.sh
Specify sender email address: root@datacomm.local
root@datacomm.local has been added
Specify recipient email address: glitchytest@gmail.com
glitchytest@gmail.com has been added
Add another recipient? (y|n) n
Specify email subject: This is my email subject
Add an attachment? (y|n) n
Enter your message: This is my email message
To: glitchytest@gmail.com
From: root@datacomm.local




Subject: This is my email subject

Message: This is my email message

glitchytest@gmail.com
1) Add a crontab entry to send the email 2) Send the email now 1
1) Specify date and time to send email (24 hour clock) 2) Specify time interval
to send email (minutes) 2
Specify time interval (minutes) 1
Hours: *
Minutes: */1
A backup copy of cron has been saved at /home/liveuser/Downloads/cronbackup Oct
20, 2011 @ 16:57:08

Crontab entry that was generated:
*/1 * * * * mail -c 'root@datacomm.local' -s 'This is my email subject' 'glitc
hytest@gmail.com' < /home/liveuser/Downloads/message.txt
```

Resulting emails to glitchytest@gmail.com

This is my email subject Inbox | X   

★ **Live System User** liveuser@localh [show details](#) 4:58 PM (2 minutes ago) Reply to all

This is my email message

[Reply](#) [Reply to all](#) [Forward](#)

★ **Live System User** liveuser@localho [show details](#) 4:59 PM (1 minute ago) Reply to all

- Show quoted text -

[Reply](#) [Reply to all](#) [Forward](#)

★ **Live System User** liveuser@localh [show details](#) 5:00 PM (0 minutes ago) Reply to all

- Show quoted text -

[Reply](#) [Reply to all](#) [Forward](#)

★ **Live System User** liveuser@localh [show details](#) 5:01 PM (0 minutes ago) Reply to all

- Show quoted text -

[Reply](#) [Reply to all](#) [Forward](#)

Running the script to send an email a **single recipient** with **no attachments immediately** under **normal circumstances**:

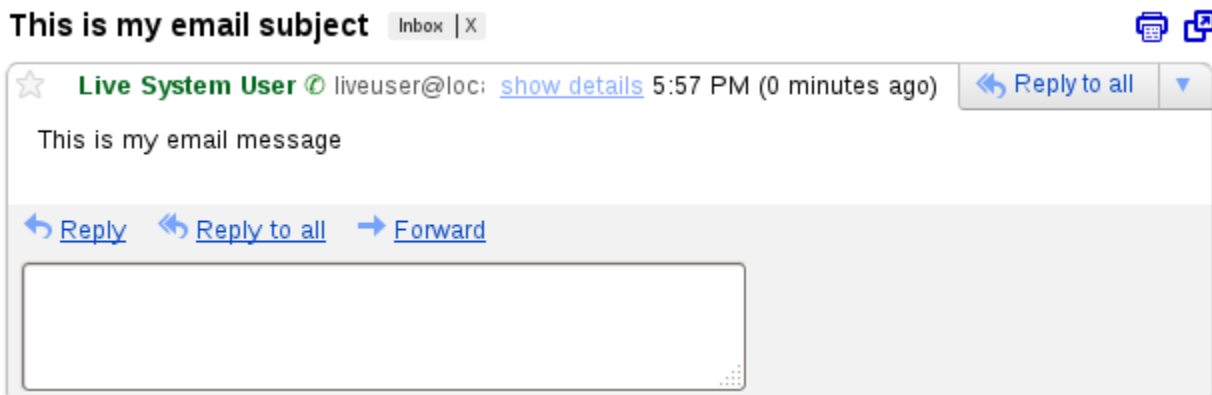
```
[liveuser@localhost Downloads]$ date
Thu Oct 20 17:57:03 EDT 2011
[liveuser@localhost Downloads]$ ./test.sh
Specify sender email address: root@datacomm.local
root@datacomm.local has been added
Specify recipient email address: maxchung11@gmail.com
maxchung11@gmail.com has been added
Add another recipient? (y|n) n
Specify email subject: This is my email subject
Add an attachment? (y|n) n
Enter your message: This is my email message
To: maxchung11@gmail.com
From: root@datacomm.local

Subject: This is my email subject

Message: This is my email message

maxchung11@gmail.com
1) Add a crontab entry to send the email  2) Send the email now 2
[liveuser@localhost Downloads]$
```

Resulting email to maxchung11@gmail.com



Error checking

Check if the specified email address is in the correct format.

```
Specify sender email address: rubbish
Invalid sender email address specified: rubbish
Specify sender email address: rubbish@rubbish.com
rubbish@rubbish.com has been added
```

Check if the specified attachment directory exists.

```
Specify a directory that contains the attachments: /home/liveuser/nonexistentdir
/home/liveuser/nonexistentdir is not a directory
```

Check if the attachment exists in the attachment directory

```
Specify a directory that contains the attachments: /home/liveuser/Pictures
/home/liveuser/Pictures contains the following files:
```

```
Screenshot-1.png
```

```
Screenshot-2.png
```

```
Screenshot-3.png
```

```
Screenshot-4.png
```

```
Screenshot-5.png
```

```
Specify the name of an attachment you want to include: Screenshot-6.png
```

```
File Screenshot-6.png does not exist.
```

```
Specify the name of an attachment you want to include: Screenshot-1.png
```

```
The Screenshot-1.png has been added
```

Check if a message has been entered

```
Enter your message:
```

```
Are you sure you do not want to enter a message? (y|n) n
```

```
Enter your message: My message
```

Check if the specified month is valid

```
Specify the month (jan|feb|mar|apr|may|jun|jul|aug|sep|oct|nov|dec) rubbish
```

```
Invalid month specified: rubbish
```

Check if the specified day occurs within the specified month

```
Specify the month (jan|feb|mar|apr|may|jun|jul|aug|sep|oct|nov|dec) MAR
```

```
Specify the day 35
```

```
There are only 31 days in March
```

Check if the specified hour is between 0 and 23 inclusive

```
Specify the hour (24 hour clock) 26
```

```
Hour must be between 0 and 23 inclusive
```

Check if the specified minute is between 0 and 59 inclusive

```
Specify the minute 65
```

```
Minute must be between 0 and 59 inclusive
```

Check if the specified time interval is a whole number

```
Specify time interval (minutes) rubbish  
Minute needs to be a whole number  
Specify time interval (minutes) 5.5  
Minute needs to be a whole number  
Specify time interval (minutes) 5
```