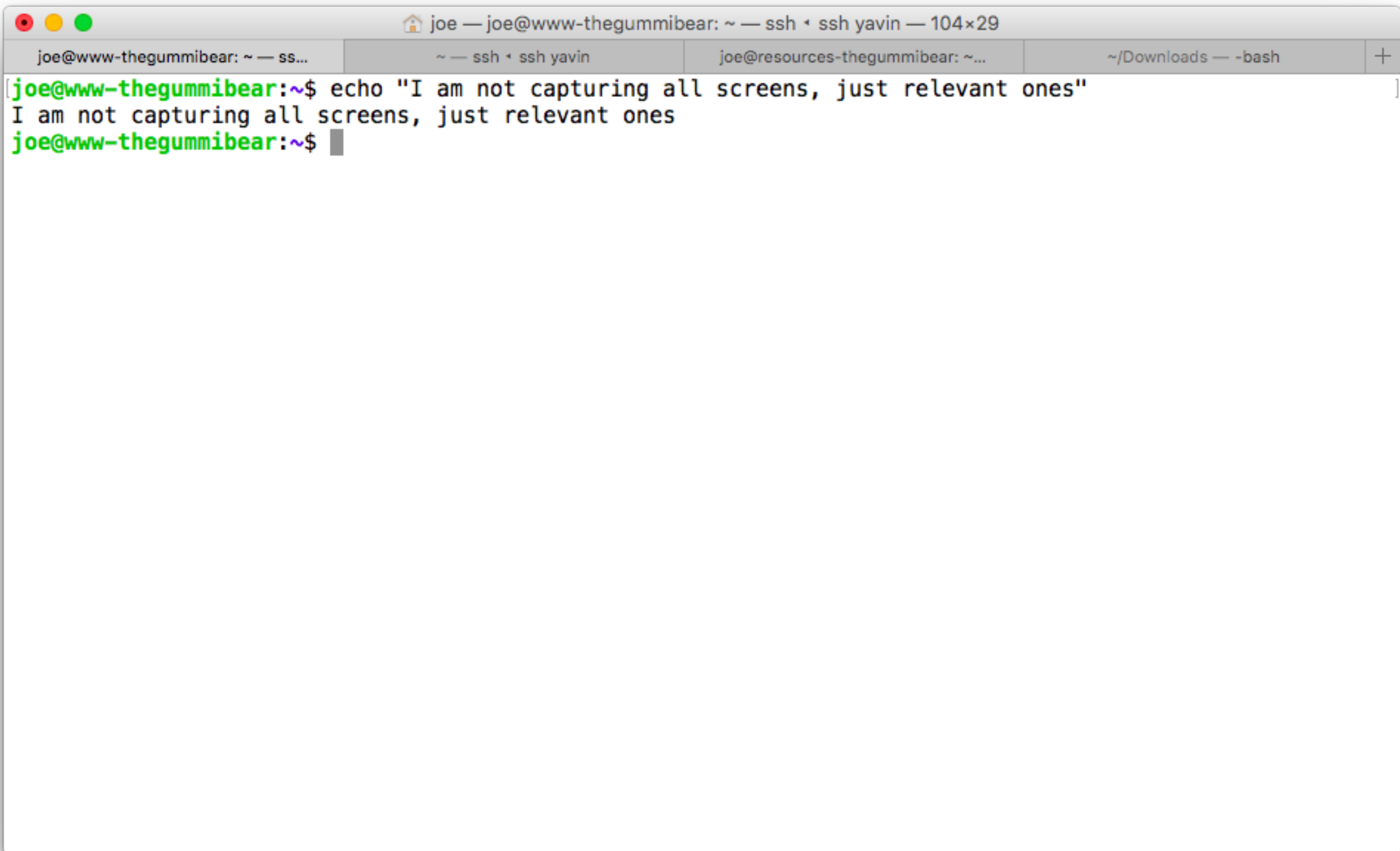


```
joe — joe@www-thegummibear: ~ — ssh + ssh yavin — 104x29
joe@www-thegummibear: ~ — ss...  ~ — ssh + ssh yavin  joe@resources-thegummibear: ~...  ~/Downloads — -bash  +
[joe@www-thegummibear:~$ echo "The following steps will need to be done on each satellite system"
The following steps will need to be done on each satellite system
joe@www-thegummibear:~$ █
```

```
joe — joe@www-thegummibear: ~ — ssh + ssh yavin — 104x29
joe@www-thegummibear: ~ — ss...  ~ — ssh + ssh yavin  joe@resources-thegummibear: ~...  ~/Downloads — -bash  +
joe@www-thegummibear:~$ sudo apt-get install exim4 mailutils
[sudo] password for joe:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  linux-headers-4.4.0-31 linux-headers-4.4.0-31-generic linux-image-4.4.0-31-generic
  linux-image-extra-4.4.0-31-generic
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  exim4-base exim4-config exim4-daemon-light guile-2.0-libs libgc1c2 libgssasl7 libkyotocabinet16v5
  libltdl7 libmailutils4 libmysqlclient20 libntlm0 libpython2.7 libpython2.7-minimal
  libpython2.7-stdlib libunistring0 mailutils-common mysql-common
Suggested packages:
  eximon4 exim4-doc-html | exim4-doc-info spf-tools-perl swaks mailutils-mh mailutils-doc
The following NEW packages will be installed:
  exim4 exim4-base exim4-config exim4-daemon-light guile-2.0-libs libgc1c2 libgssasl7
  libkyotocabinet16v5 libltdl7 libmailutils4 libmysqlclient20 libntlm0 libpython2.7
  libpython2.7-minimal libpython2.7-stdlib libunistring0 mailutils mailutils-common mysql-common
0 upgraded, 19 newly installed, 0 to remove and 37 not upgraded.
Need to get 9,674 kB of archives.
After this operation, 43.3 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```



The image shows a terminal window with a title bar that reads "joe — joe@www-thegummibear: ~ — ssh + ssh yavin — 104x29". The window contains four tabs: "joe@www-thegummibear: ~ — ss...", "~ — ssh + ssh yavin", "joe@resources-thegummibear: ~...", and "~/Downloads — -bash". The main content of the terminal is a shell prompt "joe@www-thegummibear:~\$" followed by the command "echo 'I am not capturing all screens, just relevant ones'", the output "I am not capturing all screens, just relevant ones", and a second shell prompt "joe@www-thegummibear:~\$" with a cursor.

```
joe@www-thegummibear:~$ echo "I am not capturing all screens, just relevant ones"  
I am not capturing all screens, just relevant ones  
joe@www-thegummibear:~$ █
```



joe — joe@www-thegummibear: ~ — ssh + ssh yavin — 104x29

joe@www-thegummibear: ~ — ss...

~ — ssh + ssh yavin

joe@resources-thegummibear: ~...

~/Downloads — -bash



```
joe@www-thegummibear:~$ sudo dpkg-reconfigure exim4-config
```

Package configuration

Mail Server configuration

Please select the mail server configuration type that best meets your needs.

Systems with dynamic IP addresses, including dialup systems, should generally be configured to send outgoing mail to another machine, called a 'smarthost' for delivery because many receiving systems on the Internet block incoming mail from dynamic IP addresses as spam protection.

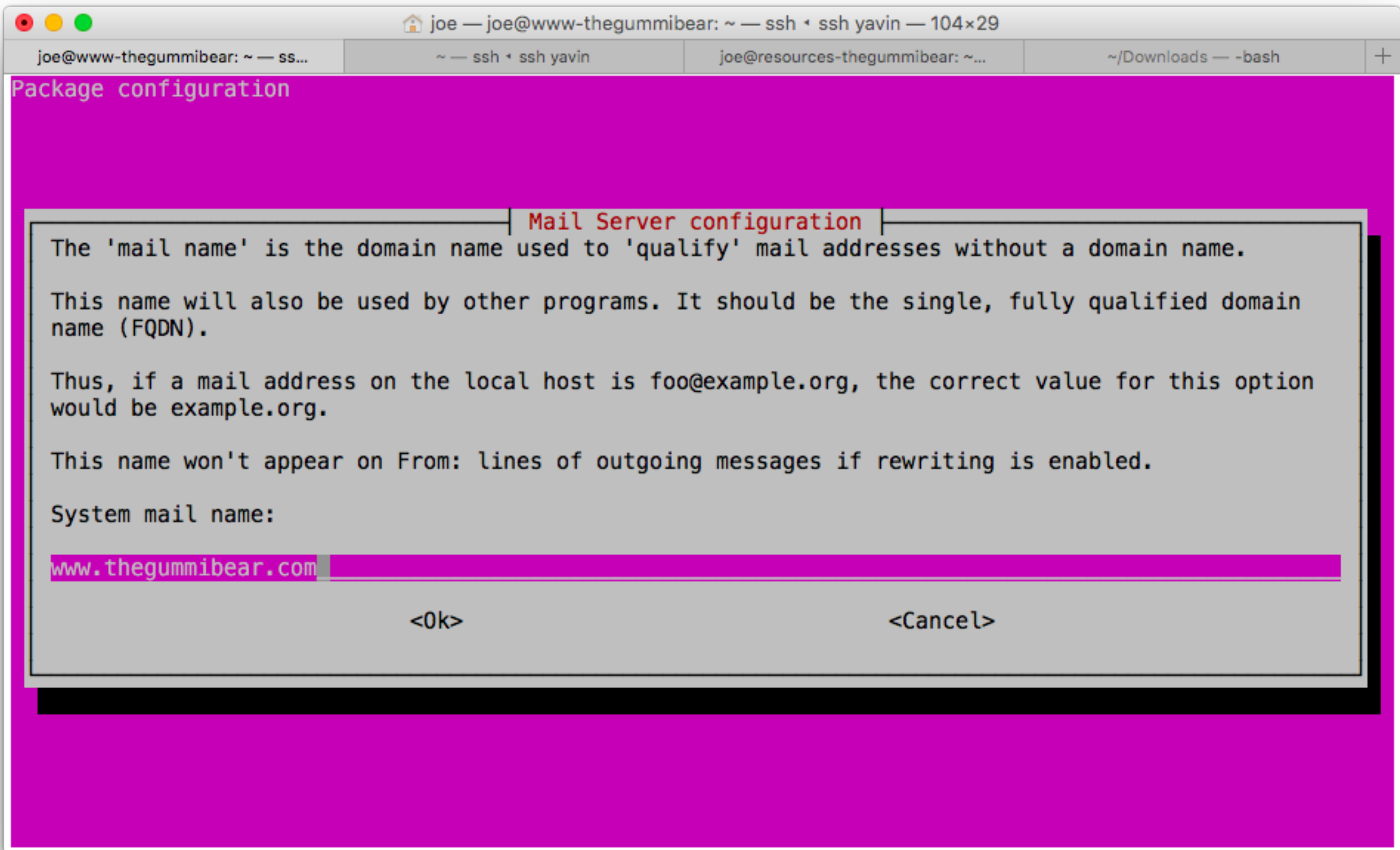
A system with a dynamic IP address can receive its own mail, or local delivery can be disabled entirely (except mail for root and postmaster).

General type of mail configuration:

- internet site; mail is sent and received directly using SMTP
- mail sent by smarthost; received via SMTP or fetchmail
- mail sent by smarthost; no local mail**
- local delivery only; not on a network
- no configuration at this time

<Ok>

<Cancel>



Package configuration

Mail Server configuration

The 'mail name' is the domain name used to 'qualify' mail addresses without a domain name.

This name will also be used by other programs. It should be the single, fully qualified domain name (FQDN).

Thus, if a mail address on the local host is foo@example.org, the correct value for this option would be example.org.

This name won't appear on From: lines of outgoing messages if rewriting is enabled.

System mail name:

www.thegummibear.com

<Ok>

<Cancel>

Package configuration

Mail Server configuration

The option to hide the local mail name in outgoing mail was enabled. It is therefore necessary to specify the domain name this system should use for the domain part of local users' sender addresses.

Visible domain name for local users:

www.thegummibear.com

<Ok>

<Cancel>



Package configuration

Mail Server configuration

Please enter the IP address or the host name of a mail server that this system should use as outgoing smarthost. If the smarthost only accepts your mail on a port different from TCP/25, append two colons and the port number (for example smarthost.example::587 or 192.168.254.254::2525). Colons in IPv6 addresses need to be doubled.

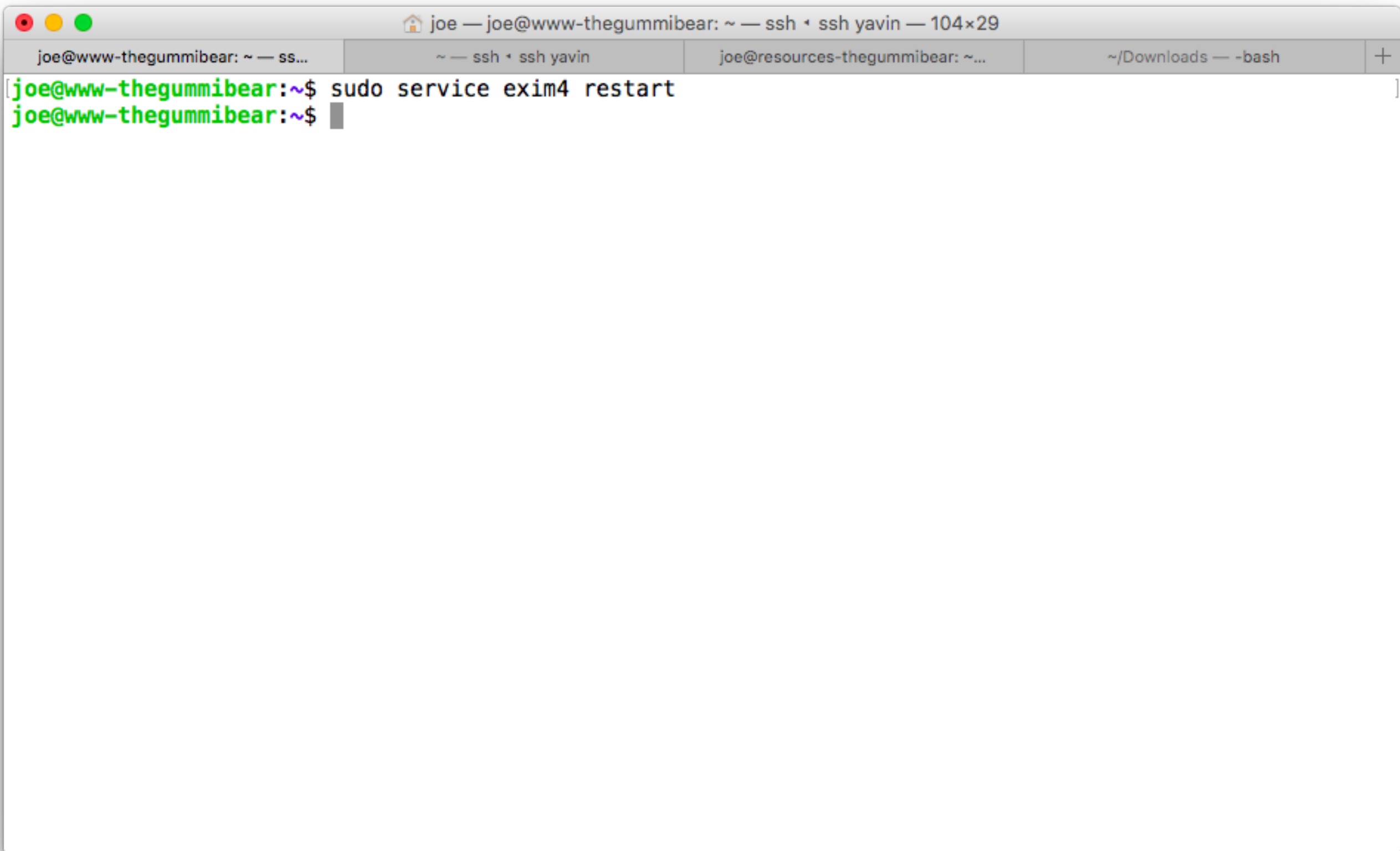
If the smarthost requires authentication, please refer to the Debian-specific README files in /usr/share/doc/exim4-base for notes about setting up SMTP authentication.

IP address or host name of the outgoing smarthost:

mail.thegummibear.com

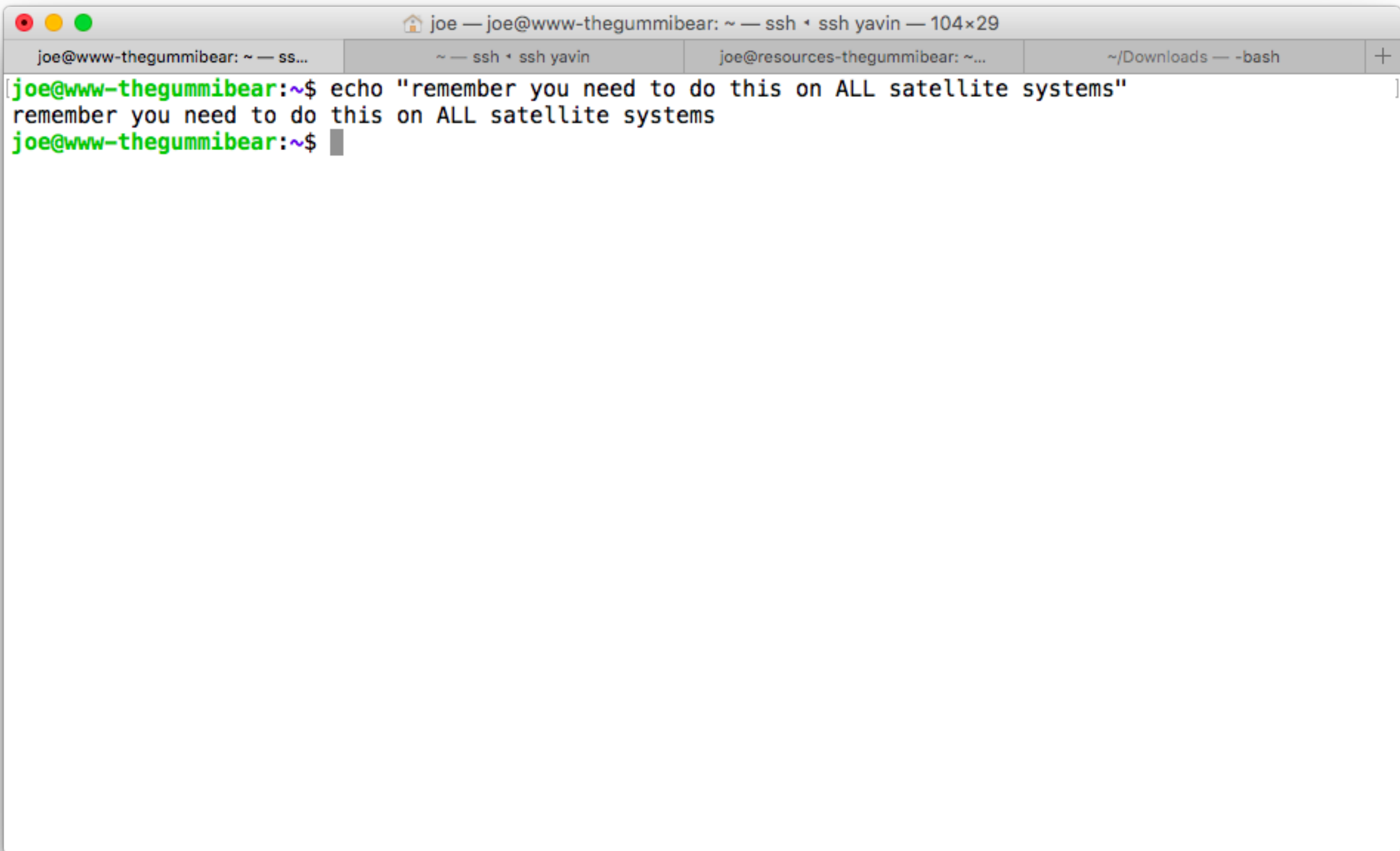
<Ok>

<Cancel>



The image shows a terminal window with a title bar that reads "joe — joe@www-thegummibear: ~ — ssh + ssh yavin — 104x29". The window contains four tabs: "joe@www-thegummibear: ~ — ss...", "~ — ssh + ssh yavin", "joe@resources-thegummibear: ~...", and "~/Downloads — -bash". The main content of the terminal shows a prompt "joe@www-thegummibear:~\$" followed by the command "sudo service exim4 restart". The next line shows the prompt "joe@www-thegummibear:~\$" with a cursor, indicating the command has been executed.

```
joe@www-thegummibear:~$ sudo service exim4 restart
joe@www-thegummibear:~$
```



The image shows a terminal window with a title bar that reads "joe — joe@www-thegummibear: ~ — ssh + ssh yavin — 104x29". The window contains four tabs: "joe@www-thegummibear: ~ — ss...", "~ — ssh + ssh yavin", "joe@resources-thegummibear: ~...", and "~/Downloads — -bash". The main content of the terminal is a shell prompt "joe@www-thegummibear:~\$" followed by the command "echo \"remember you need to do this on ALL satellite systems\"". The output of the command is "remember you need to do this on ALL satellite systems". A second shell prompt "joe@www-thegummibear:~\$" is shown with a cursor, indicating the command has finished.

```
joe@www-thegummibear:~$ echo "remember you need to do this on ALL satellite systems"
remember you need to do this on ALL satellite systems
joe@www-thegummibear:~$
```

```
joe — joe@mail-thegummibear: ~ — ssh + ssh yavin — 104x29
joe@mail-thegummibear: ~ — ss...  ~ — ssh + ssh yavin  joe@resources-thegummibear: ~...  ~/Downloads — -bash  +
[joe@mail-thegummibear:~$ echo "Now I am on my mail server"
Now I am on my mail server
[joe@mail-thegummibear:~$ echo "we need to make it aware that it is a relay for my satellites"
we need to make it aware that it is a relay for my satellites
joe@mail-thegummibear:~$ █
```



Home icon | joe — joe@mail-thegummibear: ~ — ssh + ssh yavin — 104x29

joe@mail-thegummibear: ~ — ss...

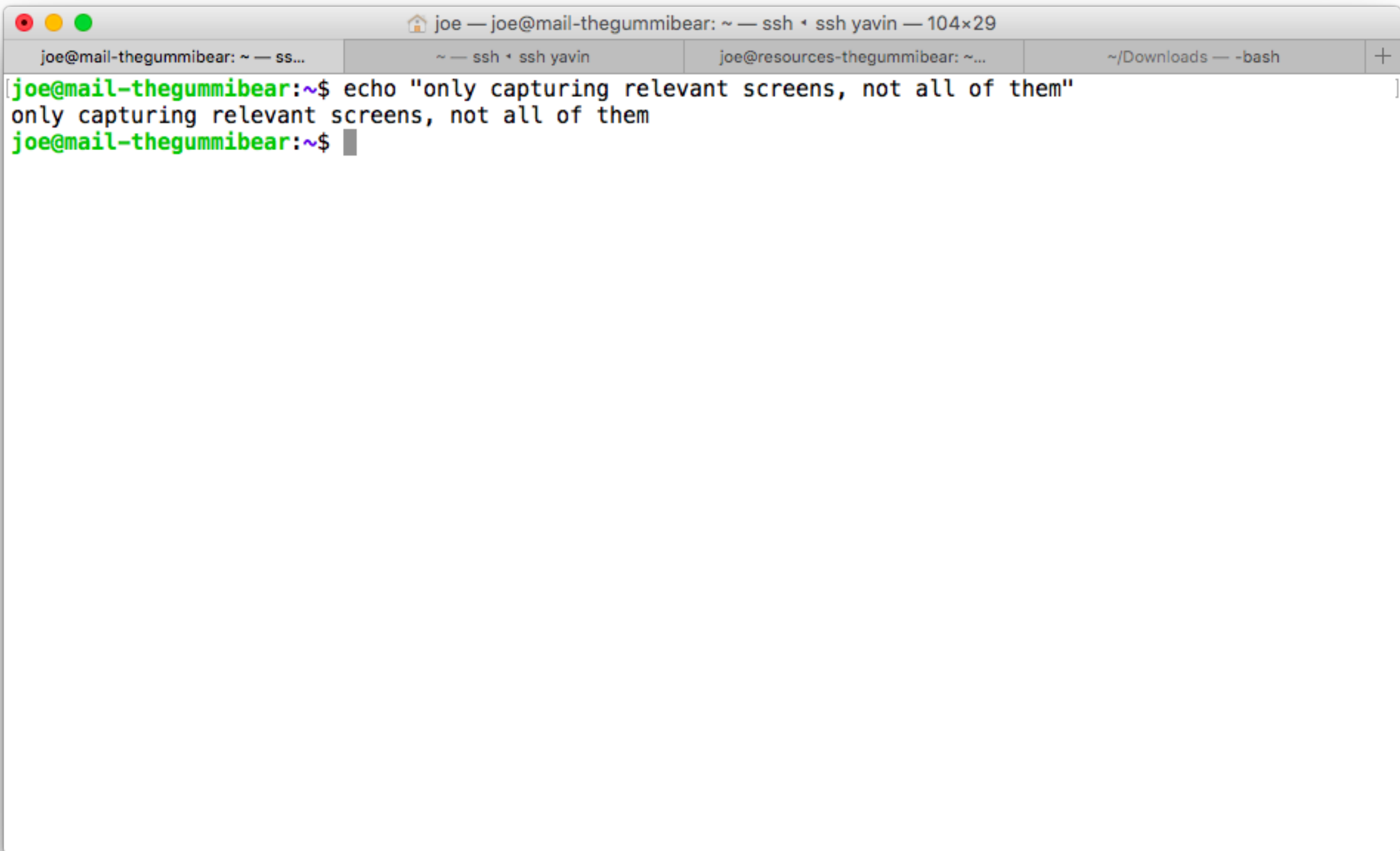
~ — ssh + ssh yavin

joe@resources-thegummibear: ~...

~/Downloads — -bash



```
joe@mail-thegummibear:~$ sudo dpkg-reconfigure exim4-config █
```



The image shows a macOS terminal window with a title bar that reads "joe — joe@mail-thegummibear: ~ — ssh + ssh yavin — 104x29". The window contains four tabs: "joe@mail-thegummibear: ~ — ss...", "~ — ssh + ssh yavin", "joe@resources-thegummibear: ~...", and "~/Downloads — -bash". The main content of the terminal is a shell session where the user enters the command `echo "only capturing relevant screens, not all of them"`. The output of the command is `only capturing relevant screens, not all of them`. The prompt `joe@mail-thegummibear:~$` is shown again on the next line, with a cursor.

```
joe@mail-thegummibear:~$ echo "only capturing relevant screens, not all of them"
only capturing relevant screens, not all of them
joe@mail-thegummibear:~$
```

Package configuration

Mail Server configuration

Please enter a semicolon-separated list of IP address ranges for which this system will unconditionally relay mail, functioning as a smarthost.

You should use the standard address/prefix format (e.g. 194.222.242.0/24 or 5f03:1200:836f::/48).

If this system should not be a smarthost for any other host, leave this list blank.

Machines to relay mail for:

144.38.199.162; 144.38.199.163; 144.38.199.165; and so forth...

<Ok>

<Cancel>

Package configuration

Mail Server configuration

Please enter a semicolon-separated list of IP address ranges for which this system will unconditionally relay mail, functioning as a smarthost.

You should use the standard address/prefix format (e.g. 194.222.242.0/24 or 5f03:1200:836f::/48).

If this system should not be a smarthost for any other host, leave this list blank.

Machines to relay mail for:

144.38.199.160/27 or I could do network and mask notation like this

<Ok>

<Cancel>

Package configuration

Mail Server configuration

Please enter a semicolon-separated list of IP address ranges for which this system will unconditionally relay mail, functioning as a smarthost.

You should use the standard address/prefix format (e.g. 194.222.242.0/24 or 5f03:1200:836f::/48).

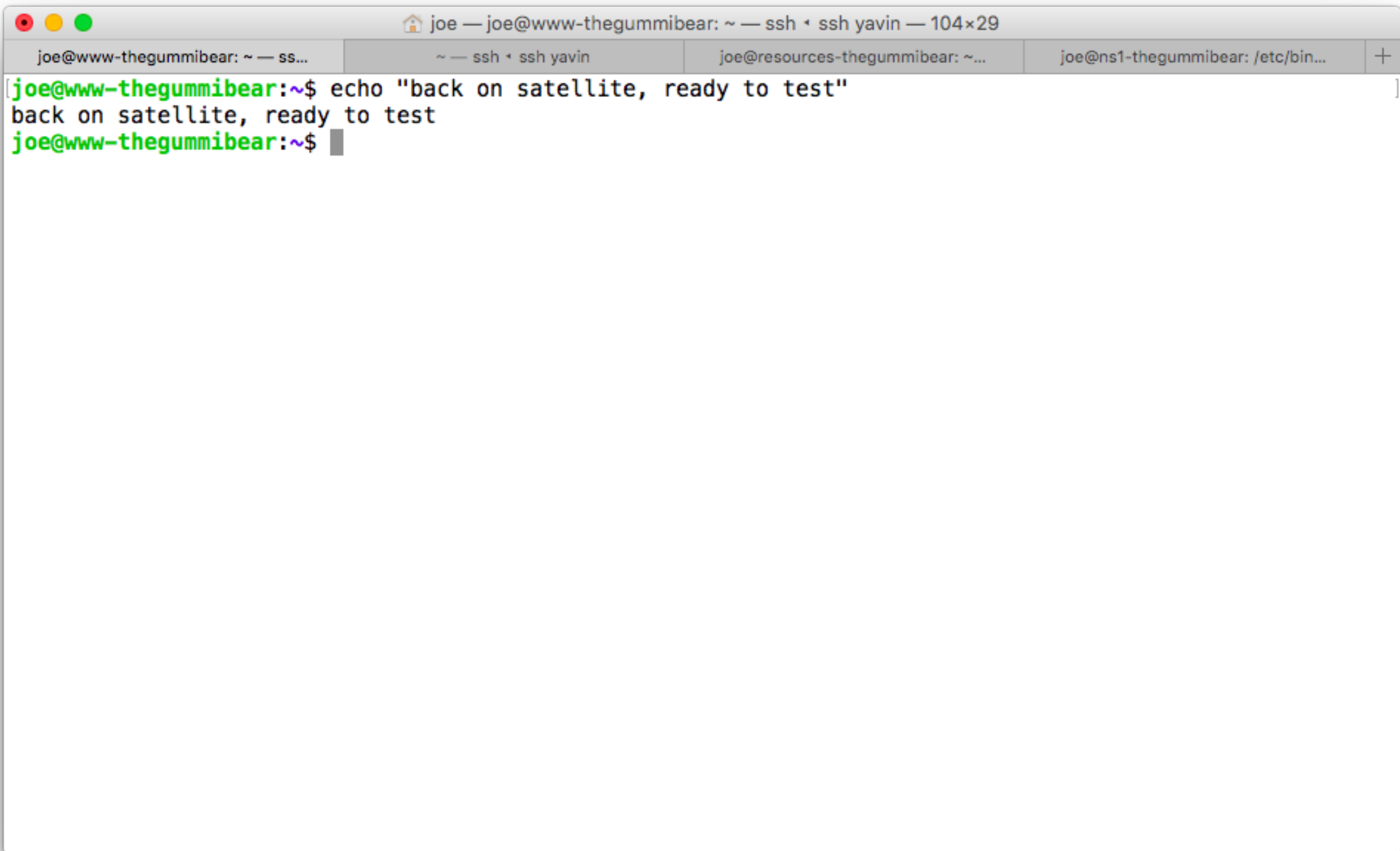
If this system should not be a smarthost for any other host, leave this list blank.

Machines to relay mail for:

.199.160/27 this can really mess stuff up, so do a semicolon list if you dont understand

<Ok>

<Cancel>



The image shows a terminal window with a title bar that reads "joe — joe@www-thegummibear: ~ — ssh + ssh yavin — 104x29". The window contains four tabs: "joe@www-thegummibear: ~ — ss...", "~ — ssh + ssh yavin", "joe@resources-thegummibear: ~...", and "joe@ns1-thegummibear: /etc/bin...". The main content of the terminal is a shell prompt "joe@www-thegummibear:~\$" followed by the command "echo \"back on satellite, ready to test\"". The output of the command is "back on satellite, ready to test". The prompt "joe@www-thegummibear:~\$" is followed by a cursor.

```
joe@www-thegummibear:~$ echo "back on satellite, ready to test"
back on satellite, ready to test
joe@www-thegummibear:~$ █
```

```
joe — joe@www-thegummibear: ~ — ssh + ssh yavin — 104x29
joe@www-thegummibear: ~ — ss...  ~ — ssh + ssh yavin  joe@resources-thegummibear: ~...  joe@ns1-thegummibear: /etc/bin...  +
joe@www-thegummibear:~$ sudo adduser bob
[sudo] password for joe:
Adding user `bob' ...
Adding new group `bob' (1016) ...
Adding new user `bob' (1013) with group `bob' ...
Creating home directory `/home/bob' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for bob
Enter the new value, or press ENTER for the default
Full Name []:
Room Number []:
Work Phone []:
Home Phone []:
Other []:
Is the information correct? [Y/n] Y
joe@www-thegummibear:~$ █
```

```
joe — bob@www-thegummibear: ~ — ssh • ssh yavin — 104x29
bob@www-thegummibear: ~ — s...  ~ — ssh • ssh yavin  joe@resources-thegummibear: ~...  joe@ns1-thegummibear: /etc/bin...  +
[ bob@www-thegummibear:~$ echo "now i am bob, ready to send" ]
now i am bob, ready to send
[ bob@www-thegummibear:~$ mailx bob@mail.thegummibear.com ]
[Cc: ]
[Subject: www -> mail ]
[Test from one satellite to my mailserver ]
bob@www-thegummibear:~$ █
```



The image shows a terminal window with a title bar that reads "joe — joe@mail-thegummibear: ~ — ssh + ssh yavin — 104x29". Below the title bar, there are four tabs: "bob@www-thegummibear: ~ — s...", "joe@mail-thegummibear: ~ — ss...", "joe@resources-thegummibear: ~...", and "joe@ns1-thegummibear: /etc/bin...". The active tab is "joe@mail-thegummibear: ~ — ss...". The terminal content shows a prompt "joe@mail-thegummibear:~\$" followed by the command "echo \"back on mailserver\"". The output of the command is "back on mailserver". The prompt "joe@mail-thegummibear:~\$" is followed by a cursor.

```
joe@mail-thegummibear:~$ echo "back on mailserver"  
back on mailserver  
joe@mail-thegummibear:~$
```

```
joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 104x29
bob@www-thegummibear: ~ — s...  joe@mail-thegummibear: ~ — ss...  joe@resources-thegummibear: ~...  joe@ns1-thegummibear: /etc/bin...  +
2016-10-04 13:16:36 1brVCe-0006jv-4M <= bob@mail.thegummibear.com U=bob P=local S=546
2016-10-04 13:16:36 1brVCe-0006kY-B5 <= bob@mail.thegummibear.com U=bob P=local S=566
2016-10-04 13:16:36 1brVCe-0006kY-B5 => tommy@smpt.dwarf.website R=smarthost T=remote_smtp_smarthost H=s
tumail.cs.dixie.edu [144.38.192.231] C="250 OK id=1brVCe-0001XE-HX"
2016-10-04 13:16:36 1brVCe-0006kY-B5 Completed
2016-10-04 13:16:36 1brVCe-0006ke-0f <= tommy@smpt.dwarf.website H=stumail.cs.dixie.edu (stumail-2016.cs
.dixie.edu) [144.38.192.231] P=esmtps X=TLS1.2:ECDHE_RSA_AES_128_GCM_SHA256:128 CV=no S=1059 id=E1brVCe-
0006Jl-Kq@smpt
2016-10-04 13:16:36 1brVCe-0006ke-0f => bob <bob@mail.thegummibear.com> R=local_user T=mail_spool
2016-10-04 13:16:36 1brVCe-0006ke-0f Completed
2016-10-04 13:16:41 1brVCe-0006jv-4M => tommy@dwarf.website R=smarthost T=remote_smtp_smarthost H=stumai
l.cs.dixie.edu [144.38.192.231] C="250 OK id=1brVCj-0001XM-Ha"
2016-10-04 13:16:41 1brVCe-0006jv-4M Completed
2016-10-04 13:29:03 Start queue run: pid=26213
2016-10-04 13:29:03 End queue run: pid=26213
2016-10-04 13:59:03 Start queue run: pid=26224
2016-10-04 13:59:03 End queue run: pid=26224
2016-10-04 14:13:50 exim 4.86_2 daemon started: pid=27074, -q30m, listening for SMTP on [127.0.0.1]:25 [
127.0.0.1]:587 [::1]:25 [::1]:587 [144.38.199.164]:25 [144.38.199.164]:587 and for SMTPS on [127.0.0.1]:
465 [::1]:465 [144.38.199.164]:465
2016-10-04 14:13:50 Start queue run: pid=27077
2016-10-04 14:13:50 End queue run: pid=27077
2016-10-04 14:15:37 no host name found for IP address 144.38.199.165
2016-10-04 14:15:37 1brW7l-00072t-Jl <= bob@www.thegummibear.com H=(www.thegummibear.com) [144.38.199.16
5] P=esmtps X=TLS1.2:ECDHE_RSA_AES_128_GCM_SHA256:128 CV=no S=737 id=E1brW7k-000520-0Y@www.thegummibear.
com
2016-10-04 14:15:37 1brW7l-00072t-Jl => bob <bob@mail.thegummibear.com> R=local_user T=mail_spool
2016-10-04 14:15:37 1brW7l-00072t-Jl Completed
( END )
```

```
joe — bob@mail-thegummibear: ~ — ssh • ssh yavin — 104x29
bob@www-thegummibear: ~ — s...  bob@mail-thegummibear: ~ — ss...  joe@resources-thegummibear: ~...  joe@ns1-thegummibear: /etc/bin...  +
bob@mail-thegummibear:~$ mailx
"/var/mail/bob": 2 messages 2 unread
>U  1 bob@www.thegummibe Tue Oct  4 14:15  24/913  www -> mail
  U  2 bob@www.thegummibe Tue Oct  4 14:20  23/884  www -> mail
? █
```

```
joe — bob@www-thegummibear: ~ — ssh ← ssh yavin — 104x29
• bob@www-thegummibear: ~ — s...  bob@mail-thegummibear: ~ — ss...  joe@resources-thegummibear: ~...  joe@ns1-thegummibear: /etc/bin...  +
[ bob@www-thegummibear:~$ echo "back on www. Sending outside my network"
back on www. Sending outside my network
[ bob@www-thegummibear:~$ echo "Don't test my address, test yours!"
Don't test my address, test yours!
[ bob@www-thegummibear:~$
[ bob@www-thegummibear:~$ mailx joseph.francom@gmail.com
Cc:
Subject: www -> gmail
Can I get this on my gmail account?
Control + D to end
[ bob@www-thegummibear:~$ █
```



bob@www.thegummibear.com

2:21 PM (0 minutes ago) ☆



to me ▾

Can I get this on my gmail account?
Control + D to end



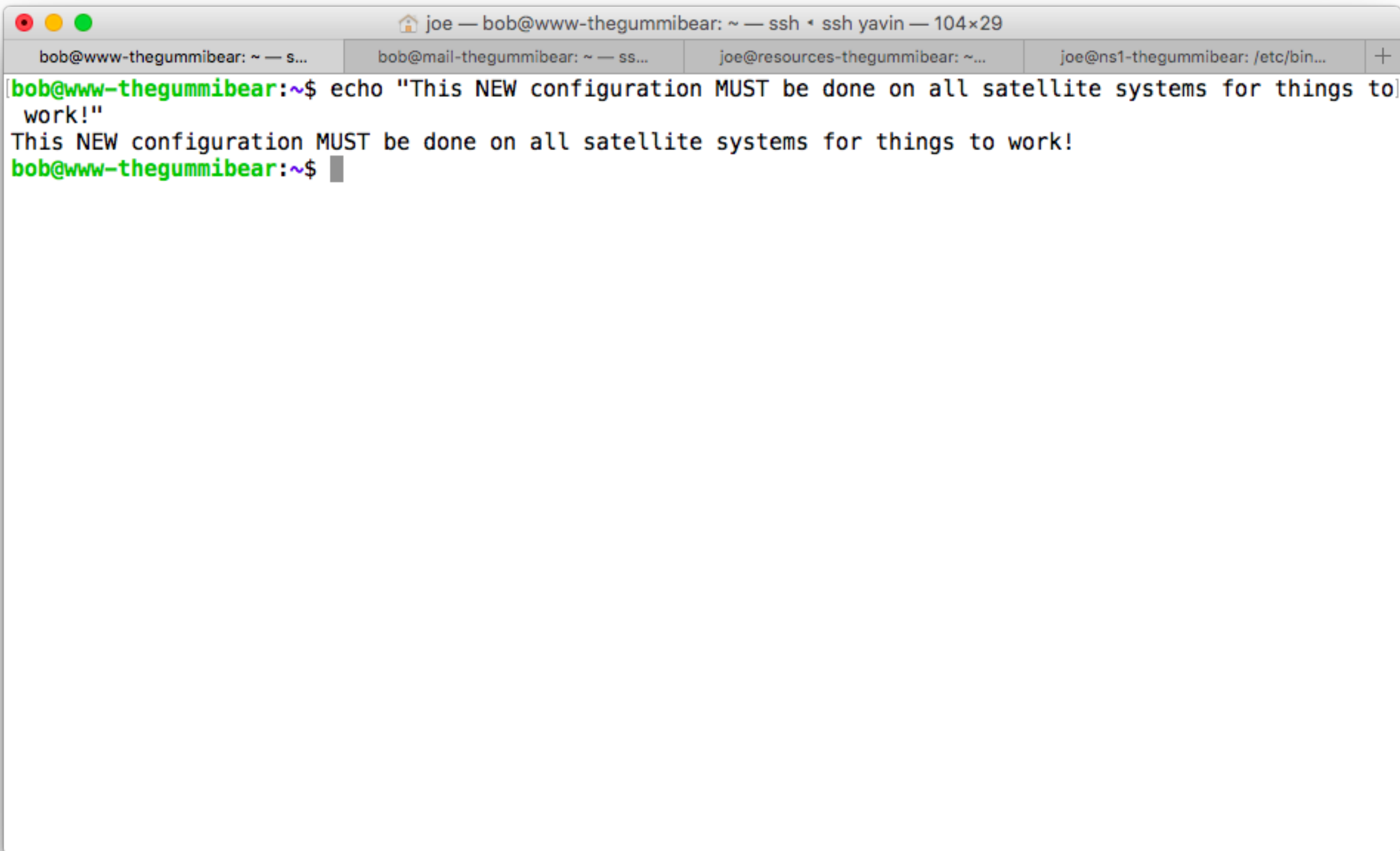
Click here to [Reply](#) or [Forward](#)

4.86 GB (32%) of 15 GB used
[Manage](#)

[Terms](#) - [Privacy](#)

Last account activity: 0 minutes ago
Open in 1 other location [Details](#)


```
joe — bob@www-thegummibear: ~ — ssh ← ssh yavin — 104×29
bob@www-thegummibear: ~ — s...  bob@mail-thegummibear: ~ — ss...  joe@resources-thegummibear: ~...  joe@ns1-thegummibear: /etc/bin...  +
bob@www-thegummibear:~$ echo "If you try to reply from your outside address, it will fail until we do so
me more configuration"
If you try to reply from your outside address, it will fail until we do some more configuration
bob@www-thegummibear:~$ █
```



The image shows a terminal window with a title bar that reads "joe — bob@www-thegummibear: ~ — ssh * ssh yavin — 104x29". Below the title bar, there are four tabs: "bob@www-thegummibear: ~ — s...", "bob@mail-thegummibear: ~ — ss...", "joe@resources-thegummibear: ~...", and "joe@ns1-thegummibear: /etc/bin...". The main content of the terminal shows a command being executed: "bob@www-thegummibear:~\$ echo "This NEW configuration MUST be done on all satellite systems for things to work!"". The output of the command is "This NEW configuration MUST be done on all satellite systems for things to work!". The prompt "bob@www-thegummibear:~\$" is followed by a cursor.

```
joe — bob@www-thegummibear: ~ — ssh * ssh yavin — 104x29
bob@www-thegummibear: ~ — s...  bob@mail-thegummibear: ~ — ss...  joe@resources-thegummibear: ~...  joe@ns1-thegummibear: /etc/bin...  +
bob@www-thegummibear:~$ echo "This NEW configuration MUST be done on all satellite systems for things to
work!"
This NEW configuration MUST be done on all satellite systems for things to work!
bob@www-thegummibear:~$ █
```



joe — bob@www-thegummibear: ~ — ssh • ssh yavin — 104x29

bob@www-thegummibear: ~ — s...

bob@mail-thegummibear: ~ — ss...

joe@resources-thegummibear: ~...

joe@ns1-thegummibear: /etc/bin...



```
bob@www-thegummibear:~$ sudo dpkg-reconfigure exim4-config
```

Package configuration

Mail Server configuration

Please select the mail server configuration type that best meets your needs.

Systems with dynamic IP addresses, including dialup systems, should generally be configured to send outgoing mail to another machine, called a 'smarthost' for delivery because many receiving systems on the Internet block incoming mail from dynamic IP addresses as spam protection.

A system with a dynamic IP address can receive its own mail, or local delivery can be disabled entirely (except mail for root and postmaster).

General type of mail configuration:

- internet site; mail is sent and received directly using SMTP
- mail sent by smarthost; received via SMTP or fetchmail
- mail sent by smarthost; no local mail**
- local delivery only; not on a network
- no configuration at this time

<Ok>

<Cancel>

Package configuration

Mail Server configuration

Please enter a semicolon-separated list of IP addresses. The Exim SMTP listener daemon will listen on all IP addresses listed here.

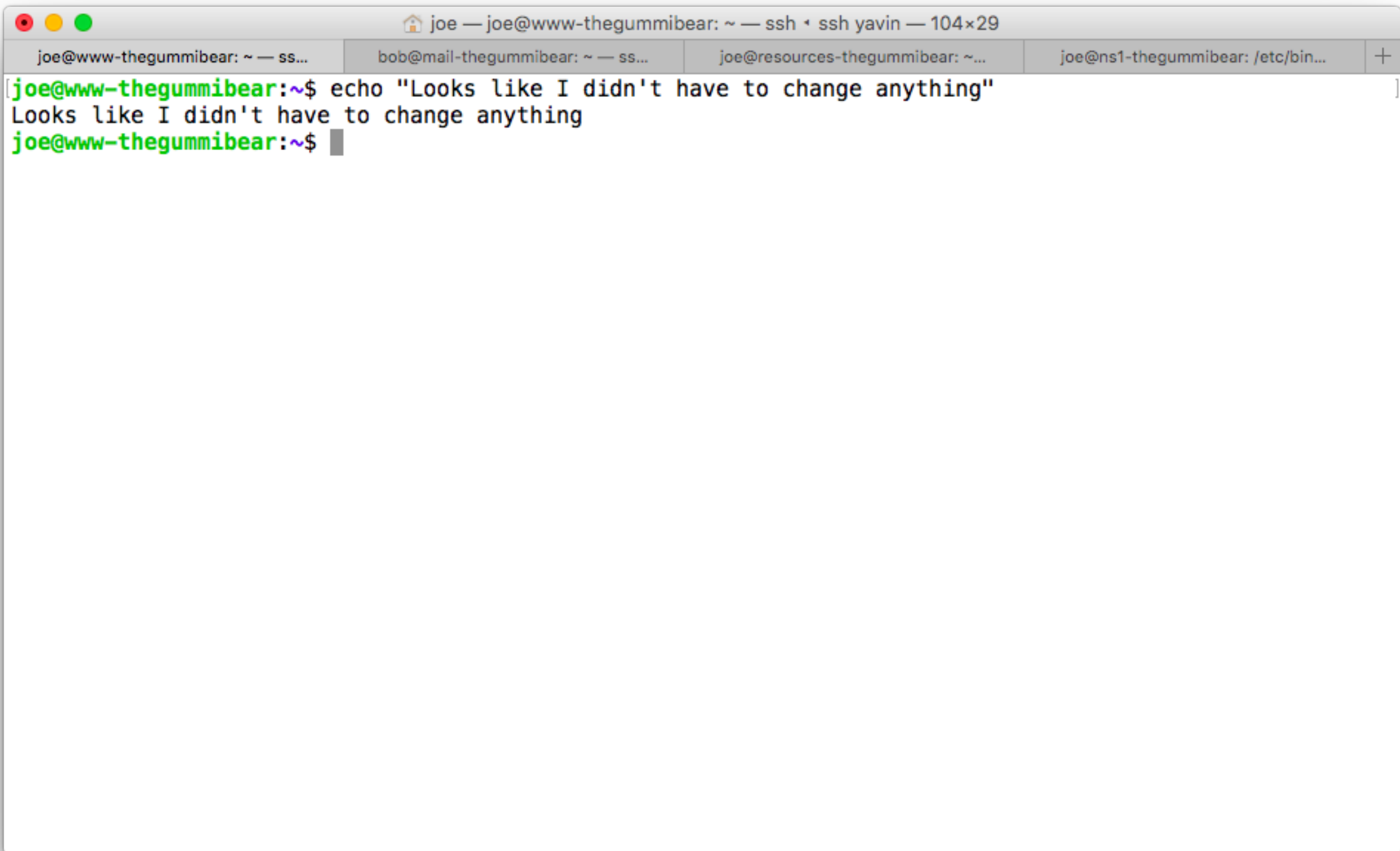
An empty value will cause Exim to listen for connections on all available network interfaces.

If this system only receives mail directly from local services (and not from other hosts), it is suggested to prohibit external connections to the local Exim daemon. Such services include e-mail programs (MUAs) which talk to localhost only as well as fetchmail. External connections are impossible when 127.0.0.1 is entered here, as this will disable listening on public network interfaces.

IP-addresses to listen on for incoming SMTP connections:

127.0.0.1 ; ::1

<Ok> <Cancel>



The image shows a terminal window with a title bar that reads "joe — joe@www-thegummibear: ~ — ssh + ssh yavin — 104x29". Below the title bar, there are four tabs: "joe@www-thegummibear: ~ — ss...", "bob@mail-thegummibear: ~ — ss...", "joe@resources-thegummibear: ~...", and "joe@ns1-thegummibear: /etc/bin...". The main content of the terminal shows a command being executed: "joe@www-thegummibear:~\$ echo "Looks like I didn't have to change anything"". The output of the command is "Looks like I didn't have to change anything". The prompt "joe@www-thegummibear:~\$" is shown again on the next line, followed by a cursor.

```
joe@www-thegummibear:~$ echo "Looks like I didn't have to change anything"
Looks like I didn't have to change anything
joe@www-thegummibear:~$ █
```

```
joe — bob@mail-thegummibear: ~ — ssh • ssh yavin — 104x29
joe@www-thegummibear: ~ — ss... • bob@mail-thegummibear: ~ — ss... joe@resources-thegummibear: ~... joe@ns1-thegummibear: /etc/bin... +
[ bob@mail-thegummibear:~$ echo "Back on mailserver"
Back on mailserver
[ bob@mail-thegummibear:~$ echo "Make sure exim knows about satellite sites"
Make sure exim knows about satellite sites
bob@mail-thegummibear:~$ █
```



joe — bob@mail-thegummibear: ~ — ssh • ssh yavin — 104×29

joe@www-thegummibear: ~ — ss...

bob@mail-thegummibear: ~ — ss...

joe@resources-thegummibear: ~...

joe@ns1-thegummibear: /etc/bin...



```
bob@mail-thegummibear:~$ sudo dpkg-reconfigure exim4-config █
```


Package configuration

Mail Server configuration

Please enter a semicolon-separated list of recipient domains for which this machine should consider itself the final destination. These domains are commonly called 'local domains'. The local hostname (mail.thegummibear.com) and 'localhost' are always added to the list given here.

By default all local domains will be treated identically. If both a.example and b.example are local domains, acc@a.example and acc@b.example will be delivered to the same final destination. If different domain names should be treated differently, it is necessary to edit the config files afterwards.

Other destinations for which mail is accepted:

mail.thegummibear.com; thegummibear.com

<Ok>

<Cancel>

```
Package configuration
```

Mail Server configuration

Please enter a semicolon-separated list of recipient domains for which this machine should consider itself the final destination. These domains are commonly called 'local domains'. The local hostname (mail.thegummibear.com) and 'localhost' are always added to the list given here.

By default all local domains will be treated identically. If both a.example and b.example are local domains, acc@a.example and acc@b.example will be delivered to the same final destination. If different domain names should be treated differently, it is necessary to edit the config files afterwards.

Other destinations for which mail is accepted:

`mail.thegummibear.com; thegummibear.com; ns1.thegummibear.com; ns2.thegummibear.com; etc...`

Package configuration

Mail Server configuration

Please enter a semicolon-separated list of recipient domains for which this machine should consider itself the final destination. These domains are commonly called 'local domains'. The local hostname (mail.thegummibear.com) and 'localhost' are always added to the list given here.

By default all local domains will be treated identically. If both a.example and b.example are local domains, acc@a.example and acc@b.example will be delivered to the same final destination. If different domain names should be treated differently, it is necessary to edit the config files afterwards.

Other destinations for which mail is accepted:

or ...

Package configuration

Mail Server configuration

Please enter a semicolon-separated list of recipient domains for which this machine should consider itself the final destination. These domains are commonly called 'local domains'. The local hostname (mail.thegummibear.com) and 'localhost' are always added to the list given here.

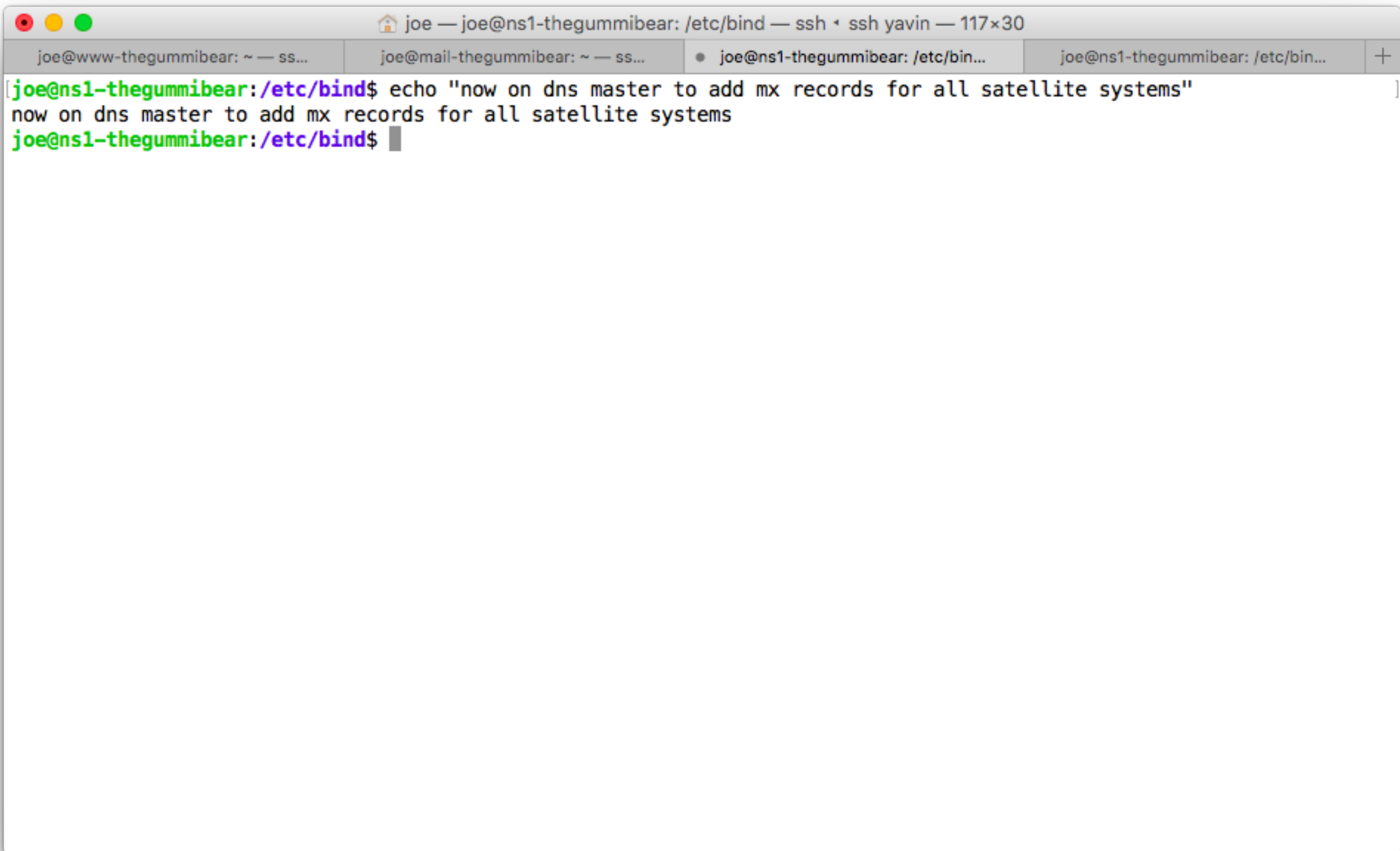
By default all local domains will be treated identically. If both a.example and b.example are local domains, acc@a.example and acc@b.example will be delivered to the same final destination. If different domain names should be treated differently, it is necessary to edit the config files afterwards.

Other destinations for which mail is accepted:

thegummibear.com; *.thegummibear.com

<Ok>

<Cancel>



The image shows a terminal window with a title bar that reads "joe — joe@ns1-thegummibear: /etc/bind — ssh ◀ ssh yavin — 117x30". The window contains four tabs: "joe@www-thegummibear: ~ — ss...", "joe@mail-thegummibear: ~ — ss...", "joe@ns1-thegummibear: /etc/bin...", and "joe@ns1-thegummibear: /etc/bin...". The active tab is the third one. The terminal content is as follows:

```
joe@ns1-thegummibear:/etc/bind$ echo "now on dns master to add mx records for all satellite systems"
now on dns master to add mx records for all satellite systems
joe@ns1-thegummibear:/etc/bind$
```



joe — joe@ns1-thegummibear: /etc/bind — ssh ◀ ssh yavin — 117×30

joe@www-thegummibear: ~ — ss...

joe@mail-thegummibear: ~ — ss...

joe@ns1-thegummibear: /etc/bin...

joe@ns1-thegummibear: /etc/bin...



```
joe@ns1-thegummibear:/etc/bind$ sudo vi db.thegummibear.com
```

```
joe — joe@ns1-thegummibear: /etc/bind — ssh ◀ ssh yavin — 117x30
joe@www-thegummibear: ~ — ss...  joe@mail-thegummibear: ~ — ss...  joe@ns1-thegummibear: /etc/bin...  joe@ns1-thegummibear: /etc/bin...  +
60) ; Negative Cache TTL
;
@      IN      NS      ns1.thegummibear.com.
@      IN      NS      ns2.thegummibear.com.

; MX Records
; The following will cause MTAs to send messages addressed
; to user@thegummibear.com to the mail.thegummibear.com server, with
; a priority of 10.
; It is important that 'mail' is the name of my MTA host. It is NOT a
; keyword in this file

@      IN      MX      10 mail

; for completeness, if a user sends mail to foo@mail.thegummibear.com
; we will direct it correctly

mail   IN      MX      10 mail

;
; MX records are normally stored next to A records
; My MTA is named mail, it is NOT a keyword in this file
; DO NOT provide MX records for CNAMEs

;
; A address records
;

ns1    IN      A      144.38.199.162
"db.thegummibear.com" 65L, 1537C written                                     34,38                                     30%
```

```
joe — joe@ns1-thegummibear: /etc/bind — ssh ◀ ssh yavin — 117x30
joe@www-thegummibear: ~ — ss...  joe@mail-thegummibear: ~ — ss...  joe@ns1-thegummibear: /etc/bin...  joe@ns1-thegummibear: /etc/bin...  +
mail  IN      MX      10 mail

;
; MX records are normally stored next to A records
; My MTA is named mail, it is NOT a keyword in this file
; DO NOT provide MX records for CNAMEs

;
; A address records
;

ns1    IN      A       144.38.199.162
      IN      MX      10 mail
ns2    IN      A       144.38.199.163
      IN      MX      10 mail
mail   IN      A       144.38.199.164
      IN      MX      10 mail
www    IN      A       144.38.199.165
      IN      MX      10 mail
filesystem  IN  A       144.38.199.166
      IN      MX      10 mail
db     IN      A       144.38.199.167
      IN      MX      10 mail
resources  IN  A       144.38.199.168
      IN      MX      10 mail
examplefs  IN  A       144.38.199.172
      IN      MX      10 mail

; Some CNAME addresses
"db.thegummibear.com" 73L, 1665C written
```




joe — joe@ns1-thegummibear: /etc/bind — ssh ↵ ssh yavin — 117×30

joe@www-thegummibear: ~ — ss...

joe@mail-thegummibear: ~ — ss...

joe@ns1-thegummibear: /etc/bin...

joe@ns1-thegummibear: /etc/bin...



```
[joe@ns1-thegummibear:/etc/bind$ sudo service bind9 restart
```

```
joe@ns1-thegummibear:/etc/bind$ █
```



The image shows a terminal window with a title bar that reads "joe — joe@ns1-thegummibear: /etc/bind — ssh ◀ ssh yavin — 117x30". The window contains four tabs: "joe@www-thegummibear: ~ — ss...", "joe@mail-thegummibear: ~ — ss...", "joe@ns1-thegummibear: /etc/bin...", and "joe@ns1-thegummibear: /etc/bin...". The active tab is the third one. The terminal content is as follows:

```
joe@ns1-thegummibear:/etc/bind$ echo "Examine your logs to see if it started correctly and sent notifies"  
Examine your logs to see if it started correctly and sent notifies  
joe@ns1-thegummibear:/etc/bind$
```



joe — joe@ns1-thegummibear: /etc/bind — ssh ◀ ssh yavin — 117×30

joe@www-thegummibear: ~ — ss...

joe@mail-thegummibear: ~ — ss...

joe@ns1-thegummibear: /etc/bin...

joe@ns1-thegummibear: /etc/bin...



```
joe@ns1-thegummibear:/etc/bind$ dig @ns1.thegummibear.com www.thegummibear.com MX
```

```
joe — joe@ns1-thegummibear: /etc/bind — ssh ◀ ssh yavin — 117x30
joe@www-thegummibear: ~ — ss...  joe@mail-thegummibear: ~ — ss...  joe@ns1-thegummibear: /etc/bin...  joe@ns1-thegummibear: /etc/bin...  +
; <<>> DiG 9.10.3-P4-Ubuntu <<>> @ns1.thegummibear.com www.thegummibear.com MX
; (1 server found)
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 17058
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 2, ADDITIONAL: 4

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;www.thegummibear.com.      IN      MX

;; ANSWER SECTION:
www.thegummibear.com.    3600   IN      MX      10 mail.thegummibear.com.

;; AUTHORITY SECTION:
thegummibear.com.       3600   IN      NS      ns2.thegummibear.com.
thegummibear.com.       3600   IN      NS      ns1.thegummibear.com.

;; ADDITIONAL SECTION:
mail.thegummibear.com.  3600   IN      A       144.38.199.164
ns1.thegummibear.com.   3600   IN      A       144.38.199.162
ns2.thegummibear.com.   3600   IN      A       144.38.199.163

;; Query time: 0 msec
;; SERVER: 144.38.199.162#53(144.38.199.162)
;; WHEN: Tue Oct 04 14:32:33 MDT 2016
;; MSG SIZE rcvd: 154

joe@ns1-thegummibear:/etc/bind$
```

```
joe — joe@ns1-thegummibear: /etc/bind — ssh ◀ ssh yavin — 117×30
joe@www-thegummibear: ~ — ss...  joe@mail-thegummibear: ~ — ss...  joe@ns1-thegummibear: /etc/bin...  joe@ns1-thegummibear: /etc/bin...  +
[joe@ns1-thegummibear:/etc/bind$ echo "Test ALL your MX records using dig"
Test ALL your MX records using dig
joe@ns1-thegummibear:/etc/bind$ █
```



The image shows a terminal window with a title bar that reads "joe — joe@ns1-thegummibear: /etc/bind — ssh ◀ ssh yavin — 117x30". The window contains four tabs: "joe@www-thegummibear: ~ — ss...", "joe@mail-thegummibear: ~ — ss...", "joe@ns1-thegummibear: /etc/bin...", and "joe@ns1-thegummibear: /etc/bin...". The active terminal session shows the following text:

```
[joe@ns1-thegummibear:/etc/bind$ echo "now to test from outside my LAN"  
now to test from outside my LAN  
joe@ns1-thegummibear:/etc/bind$ █
```

**bob@www.thegummibear.com**

2:21 PM (11 minutes ago)



to me

Can I get this on my gmail account?
Control + D to end



Click here to [Reply](#) or [Forward](#)

4.86 GB (32%) of 15 GB used
[Manage](#)

[Terms](#) - [Privacy](#)

Last account activity: 0 minutes ago
Open in 1 other location [Details](#)

? bob@www.thegummibear.com

2:21 PM (11 minutes ago) ☆



to me ▾

Can I get this on my gmail account?
Control + D to end



← ▾ bob@www.thegummibear.com

Here is my test response!!!
I hope you get it.
Please don't everyone send to my account!



Sans Serif ▾



Send



Saved



4.86 GB (32%) of 15 GB used
[Manage](#)

[Terms](#) - [Privacy](#)

Last account activity: 0 minutes ago
[Details](#)


```
joe — bob@mail-thegummibear: ~ — ssh • ssh yavin — 104x29
bob@www-thegummibear: ~ — s...  bob@mail-thegummibear: ~ — ss...  joe@ns1-thegummibear: /etc/bin...  joe@ns1-thegummibear: /etc/bin...  +
bob@mail-thegummibear:~$ mail
"/var/mail/bob": 3 messages 1 new 2 unread
U   1 bob@www.thegummibe Tue Oct  4 14:15  24/913  www -> mail
U   2 bob@www.thegummibe Tue Oct  4 14:20  23/884  www -> mail
>N  3 Joe Francom       Tue Oct  4 14:35  92/4527  Re: www -> gmail
? █
```

```
joe — bob@mail-thegummibear: ~ — ssh • ssh yavin — 104x29
bob@www-thegummibear: ~ — s...  bob@mail-thegummibear: ~ — ss...  joe@ns1-thegummibear: /etc/bin...  joe@ns1-thegummibear: /etc/bin...  +
Return-path: <joseph.francom@gmail.com>
Envelope-to: bob@www.thegummibear.com
Delivery-date: Tue, 04 Oct 2016 14:35:21 -0600
Received: from mail-it0-f45.google.com ([209.85.214.45])
    by mail.thegummibear.com with esmtps (TLS1.2:ECDHE_RSA_AES_128_GCM_SHA256:128)
    (Exim 4.86_2)
    (envelope-from <joseph.francom@gmail.com>)
    id 1brWQr-0007Gt-Ns
    for bob@www.thegummibear.com; Tue, 04 Oct 2016 14:35:21 -0600
Received: by mail-it0-f45.google.com with SMTP id j69so161590125itb.0
    for <bob@www.thegummibear.com>; Tue, 04 Oct 2016 13:35:21 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
    d=gmail.com; s=20120113;
    h=mime-version:in-reply-to:references:from:date:message-id:subject:to;
    bh=M9AZqXVvKeRz3T0+eHICWtL5kh0CdbKVRo6UpBrFzpo=;
    b=XB+vi0MLkc76VKUKYvIZ76xvS3Cc3ZLsbaNALsEhhytFCGk33DAgpBMgREGoi0sCcp
    5AgwLIU0+qSyarJ1zRcClyn7DHZRn425P8Fj/Pf1nRl7iITCX0/sBx4jEBmc6iDtsgkM
    Utf0HzkWr0YjZDfHKRd+J0l79NyAt+RZ33jJ18kD3Jv50efFNgk04SR+LEzCga0WwkjU
    esV62fJIM0PgiZqdwZ1o0oZ7xlEaH04iokws2jivWQQhYn8GM+s6wjBsyteQmDUM16l
    FG0ld7zsvoebC+L+GSnkZyNmcPzPsakJs0MwimDj/xif2FhR31U0cYW1/u0T4sBbulqD
    Vypw==
X-Google-DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
    d=1e100.net; s=20130820;
    h=x-gm-message-state:mime-version:in-reply-to:references:from:date
    :message-id:subject:to;
    bh=M9AZqXVvKeRz3T0+eHICWtL5kh0CdbKVRo6UpBrFzpo=;
    b=NQY1Sl/PIDha2EE0mz+dDRaW9Un6JNBtLb17r8Ea0YDq94v4zfwMU1vt4Gh9rtLCAz
    x9lPu6EDRNaIEU72UgbdXQwl0oiVk+so8FWprHtaxtXNdKj4WPxutaHdhDcYpdWvQ4pf
--More--
```

```
joe — bob@www-thegummibear: ~ — ssh • ssh yavin — 104x29
bob@www-thegummibear: ~ — s...  bob@mail-thegummibear: ~ — ss...  joe@ns1-thegummibear: /etc/bin...  joe@ns1-thegummibear: /etc/bin...  +
[ bob@www-thegummibear:~$ mailx
Cannot open mailbox /var/mail/bob: Permission denied
No mail for bob
[ bob@www-thegummibear:~$ mail
Cannot open mailbox /var/mail/bob: Permission denied
No mail for bob
[ bob@www-thegummibear:~$ echo "On the satellite system, this is working as expected. Should NOT be received here. User has to log into mail server to retrieve email"
On the satellite system, this is working as expected. Should NOT be received here. User has to log into mail server to retrieve email
bob@www-thegummibear:~$ █
```

```
joe — bob@www-thegummibear: ~ — ssh * ssh yavin — 104x29
bob@www-thegummibear: ~ — s...  bob@mail-thegummibear: ~ — ss...  joe@ns1-thegummibear: /etc/bin...  joe@ns1-thegummibear: /etc/bin...  +
[bob@www-thegummibear:~$ echo "Test from each of your Satellites. Double check your error logs."
Test from each of your Satellites. Double check your error logs.
[bob@www-thegummibear:~$ echo "/var/log/syslog"
/var/log/syslog
[bob@www-thegummibear:~$ echo "and"
and
[bob@www-thegummibear:~$ echo "/var/log/exim4/mainlog and /var/log/exim4/rejectlog, and other log files"
/var/log/exim4/mainlog and /var/log/exim4/rejectlog, and other log files
bob@www-thegummibear:~$ █
```