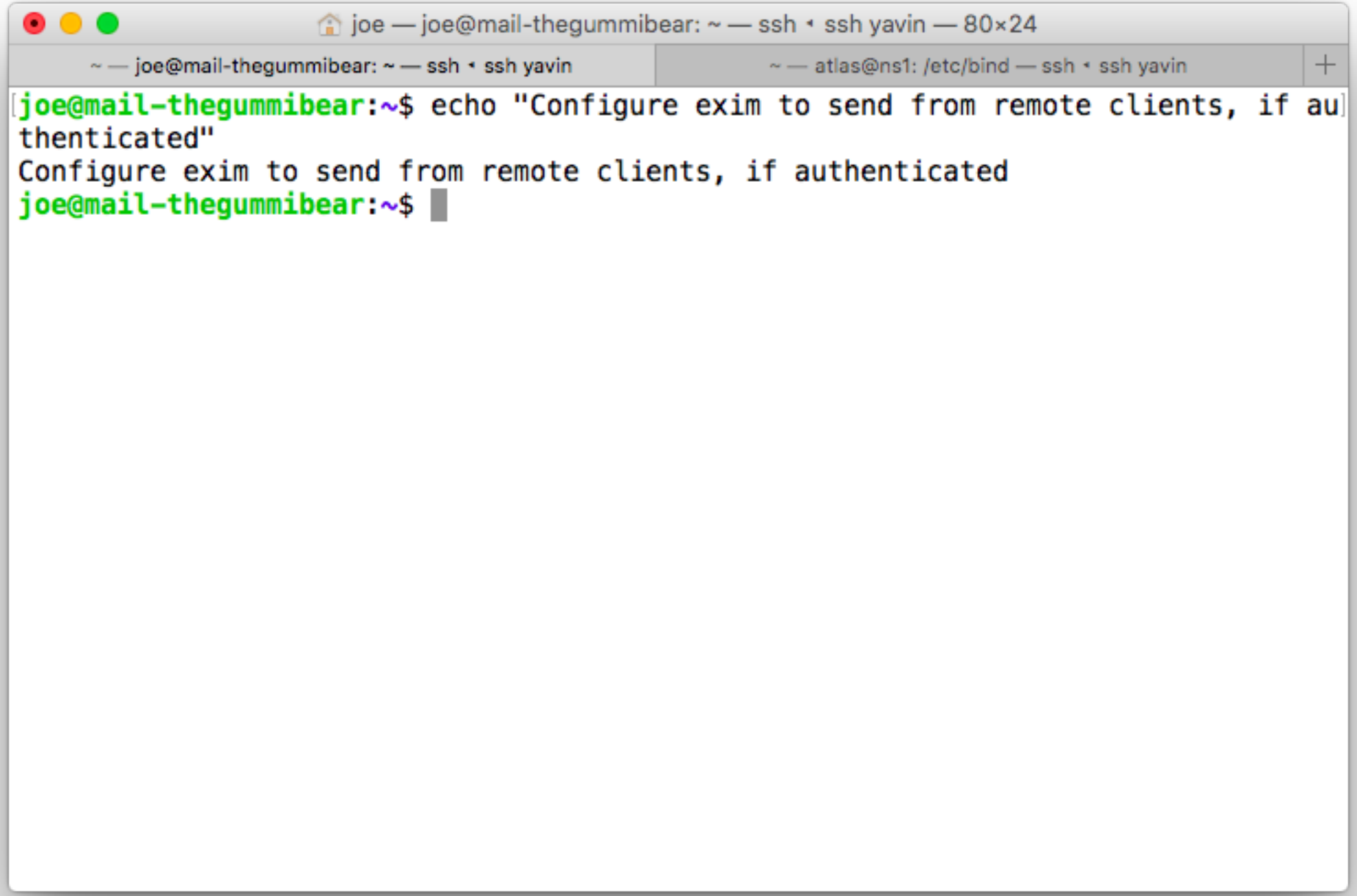
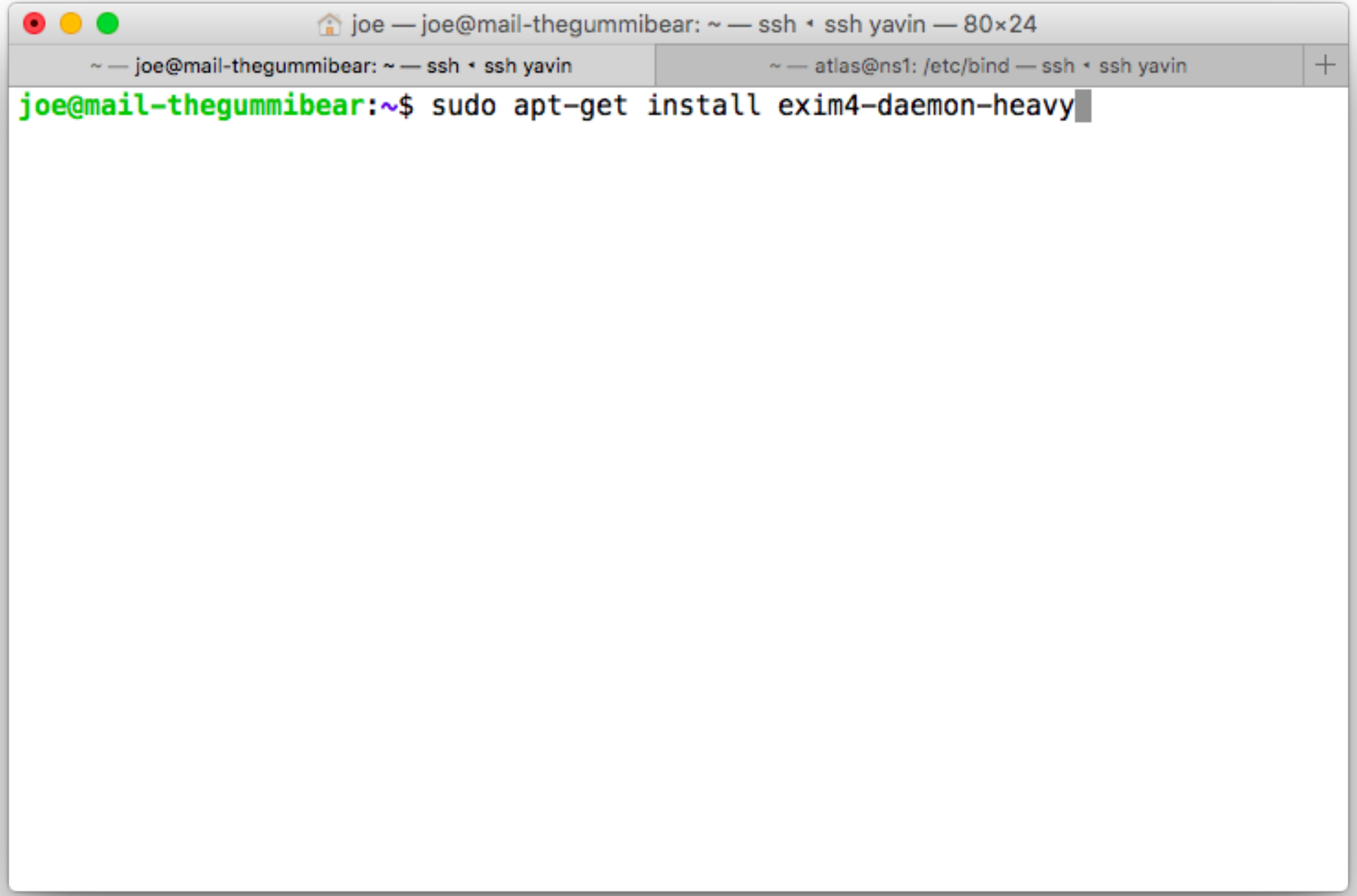
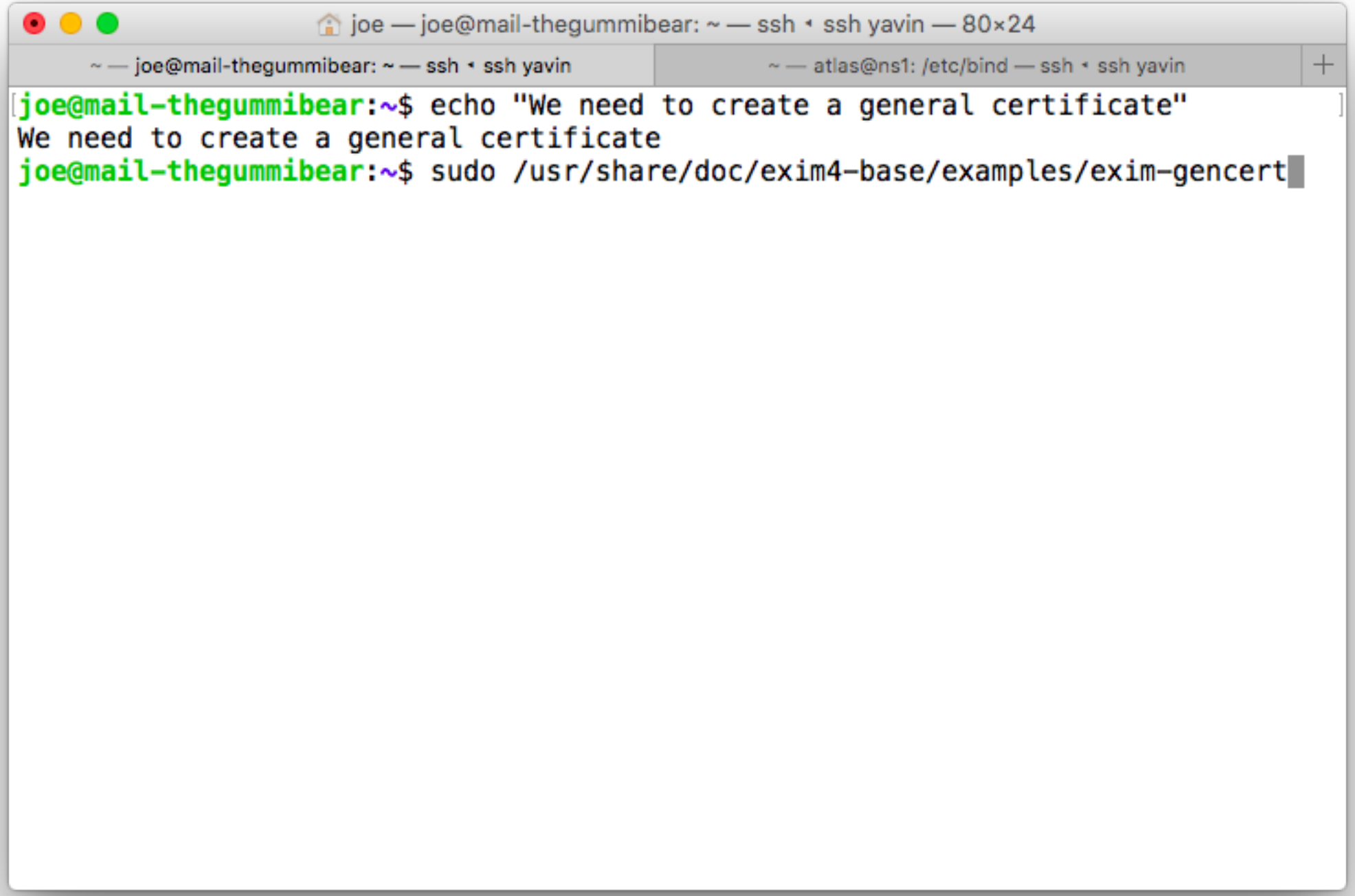
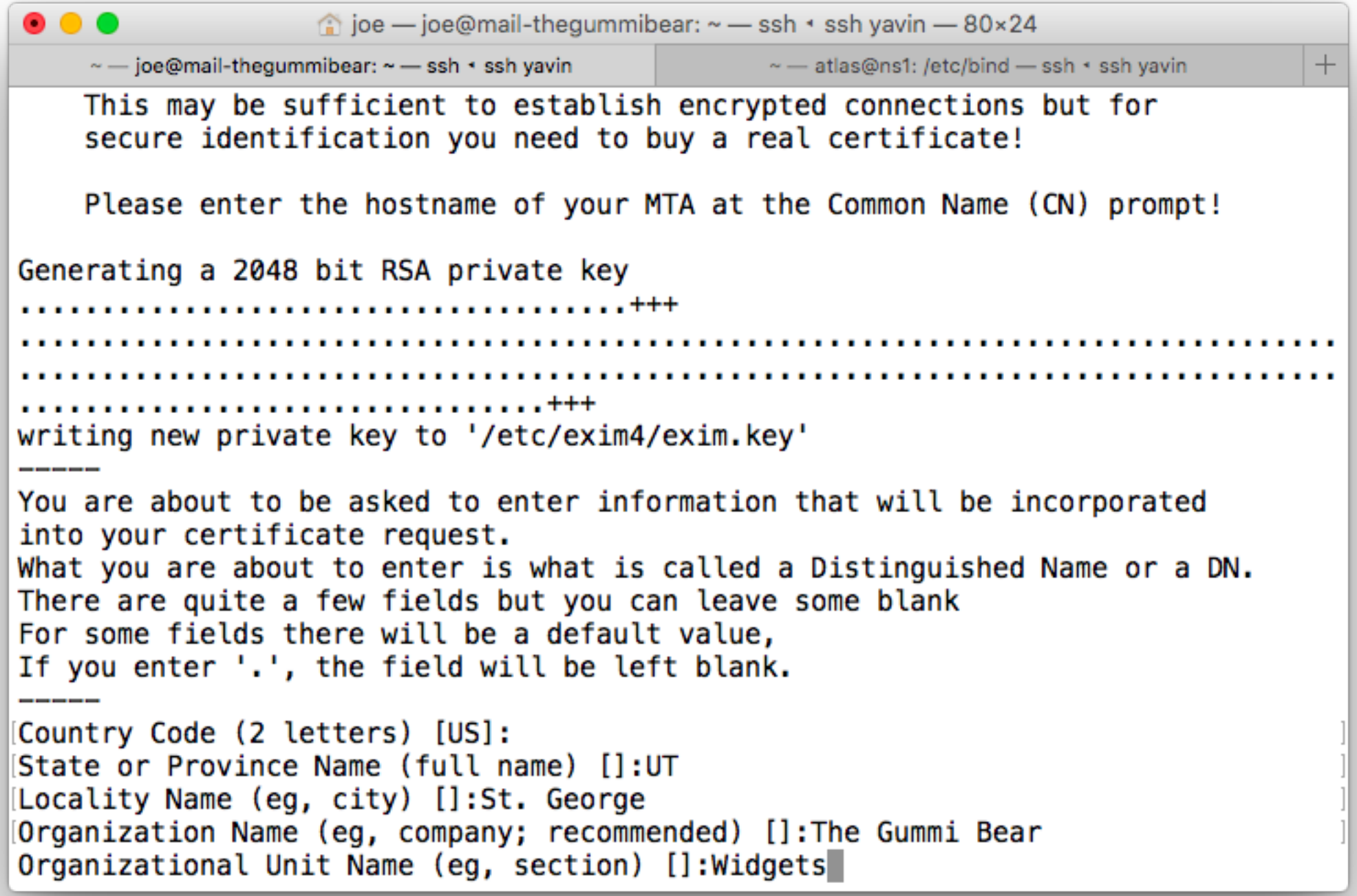

joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ echo "Configure exim to send from remote clients, if au
thenticated"
Configure exim to send from remote clients, if authenticated
joe@mail-thegummibear:~$

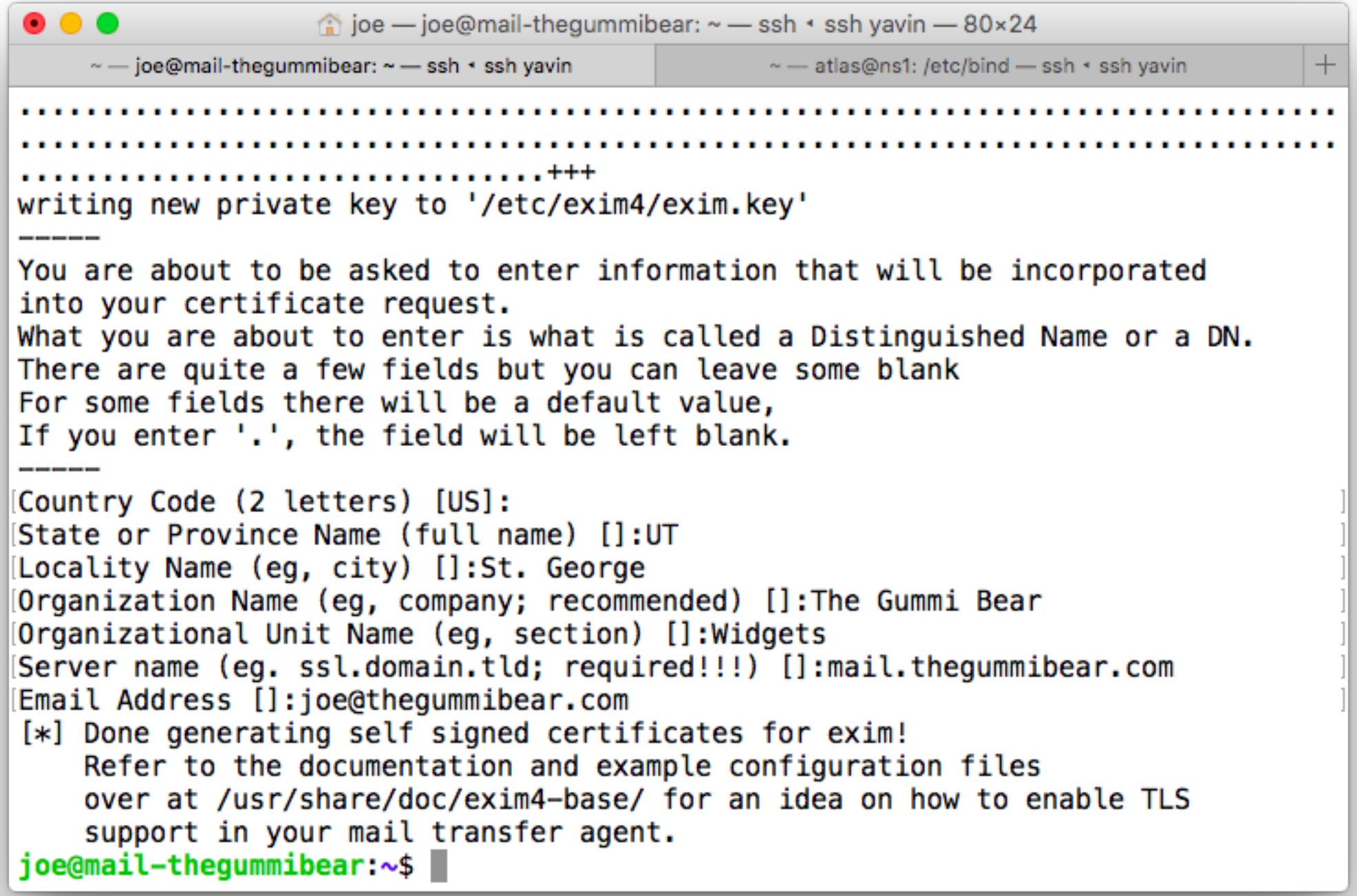

joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ sudo apt-get install exim4-daemon-heavy


joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ echo "We need to create a general certificate"
We need to create a general certificate
joe@mail-thegummibear:~$ sudo /usr/share/doc/exim4-base/examples/exim-gencert


joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
This may be sufficient to establish encrypted connections but for
secure identification you need to buy a real certificate!
Please enter the hostname of your MTA at the Common Name (CN) prompt!
Generating a 2048 bit RSA private key
.....+++
.....+++
writing new private key to '/etc/exim4/exim.key'

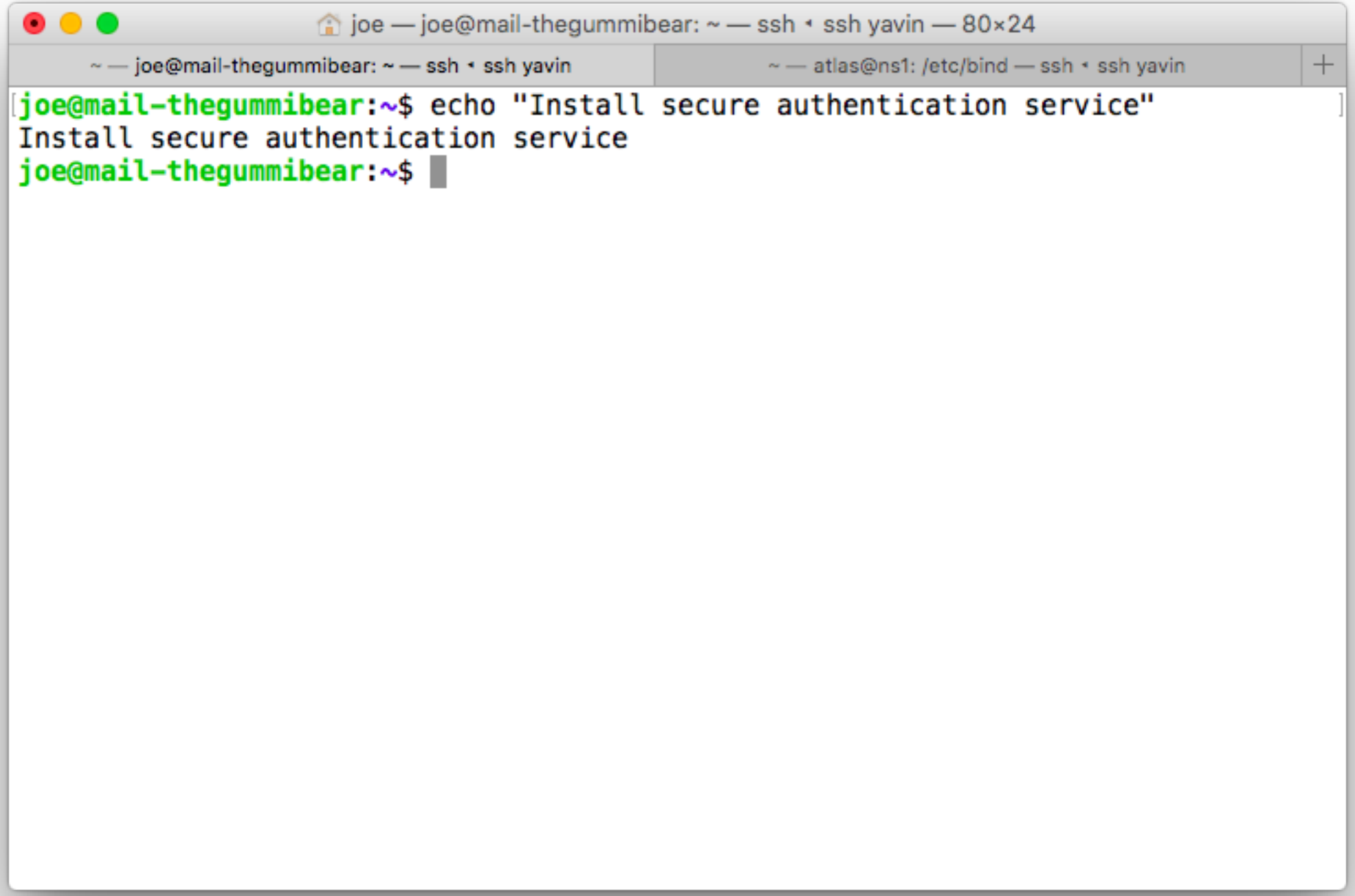
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.

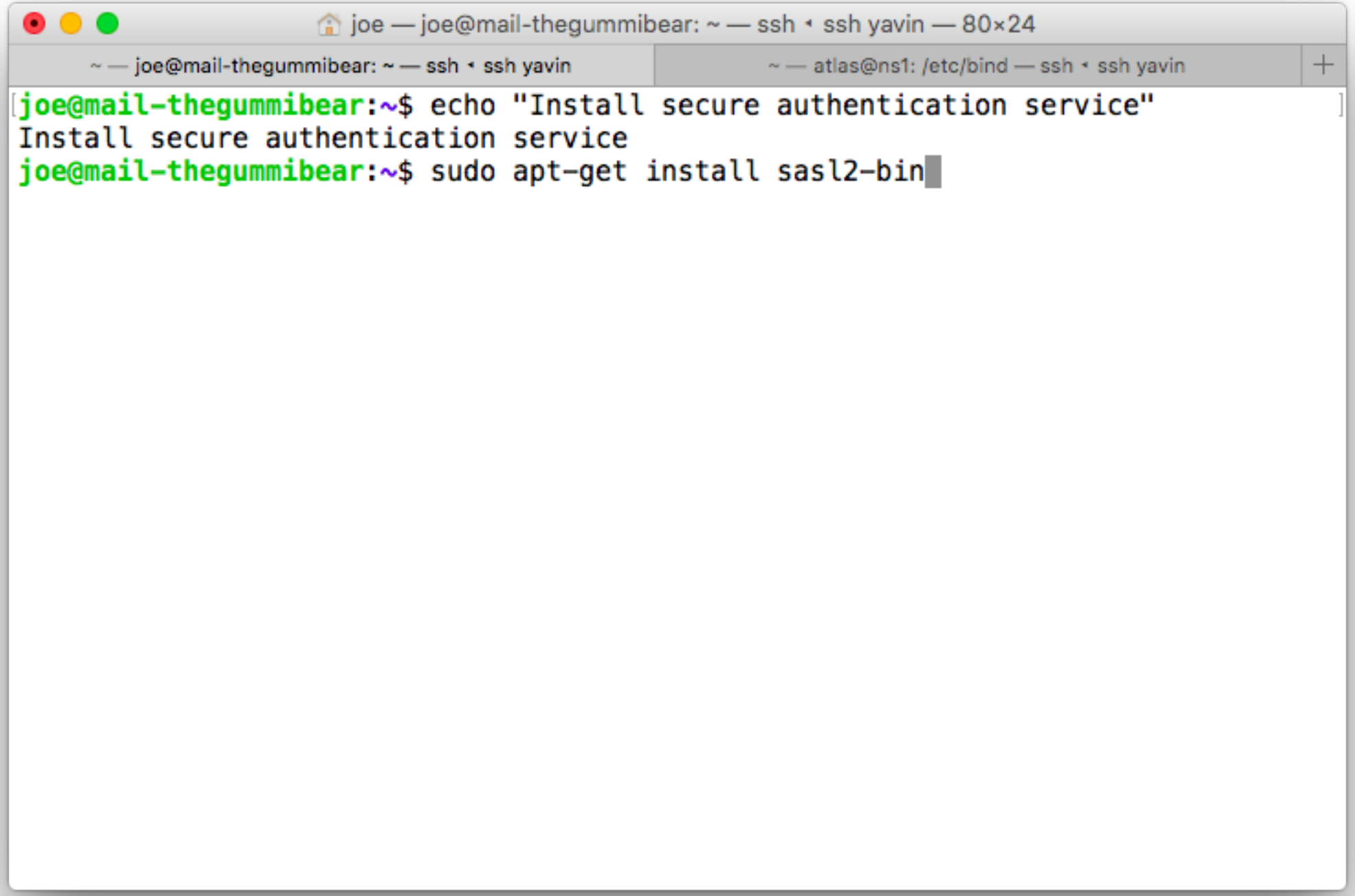
Country Code (2 letters) [US]:
State or Province Name (full name) []:UT
Locality Name (eg, city) []:St. George
Organization Name (eg, company; recommended) []:The Gummi Bear
Organizational Unit Name (eg, section) []:Widgets


joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
.....+++
writing new private key to '/etc/exim4/exim.key'

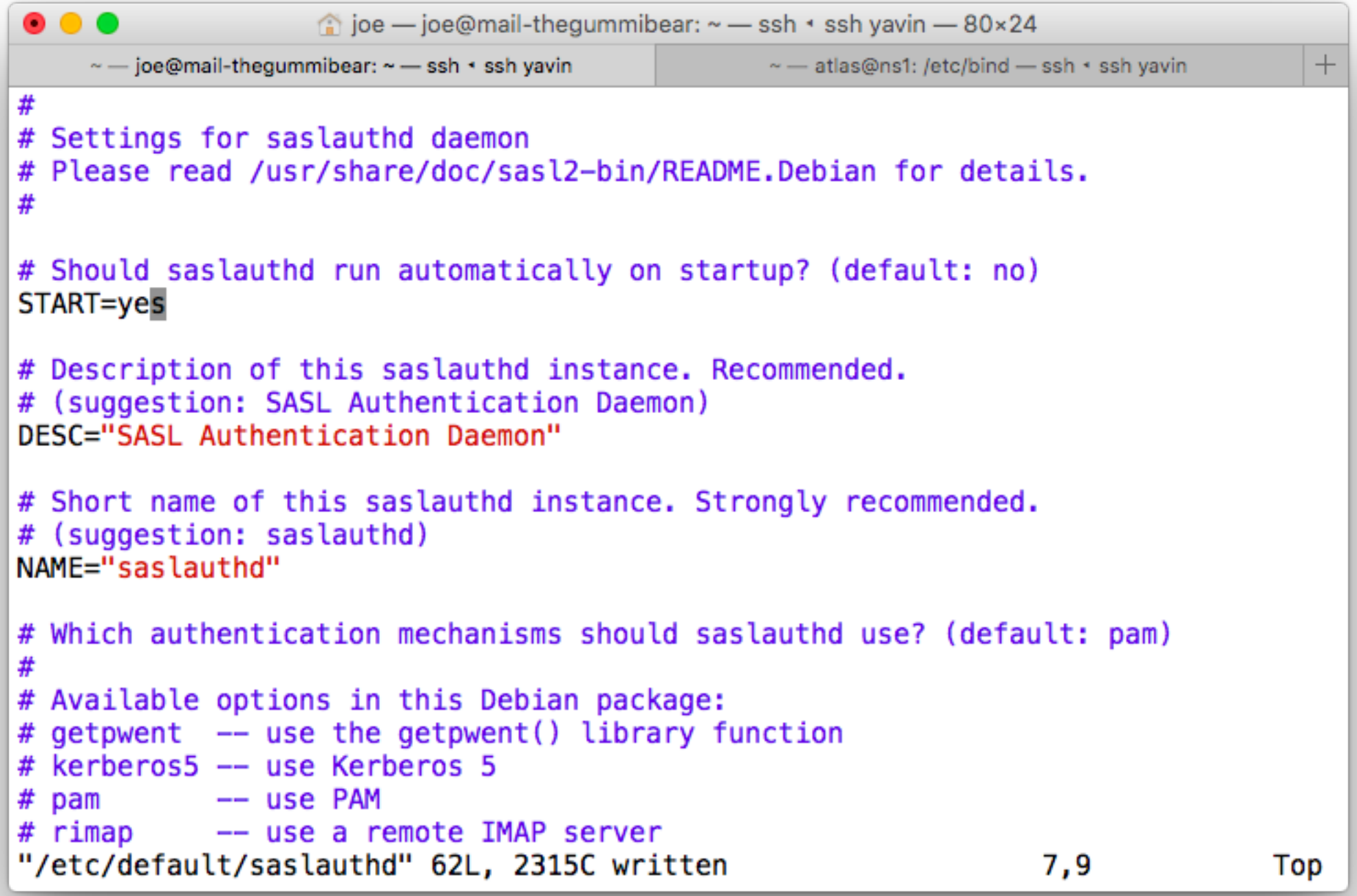
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.

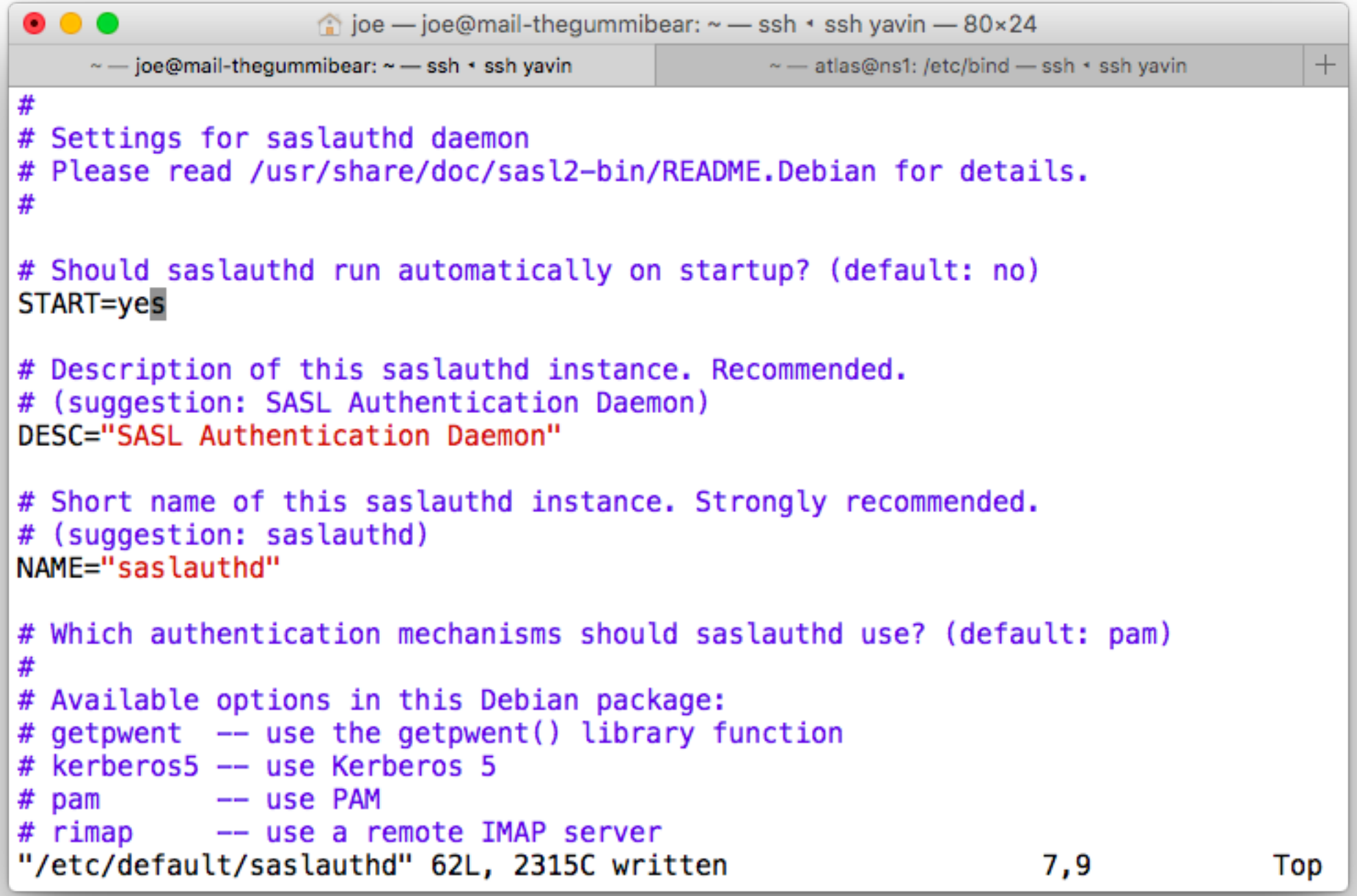
Country Code (2 letters) [US]:
State or Province Name (full name) []:UT
Locality Name (eg, city) []:St. George
Organization Name (eg, company; recommended) []:The Gummi Bear
Organizational Unit Name (eg, section) []:Widgets
Server name (eg. ssl.domain.tld; required!!!) []:mail.thegummibear.com
Email Address []:joe@thegummibear.com
[*] Done generating self signed certificates for exim!
Refer to the documentation and example configuration files
over at /usr/share/doc/exim4-base/ for an idea on how to enable TLS
support in your mail transfer agent.
joe@mail-thegummibear:~$

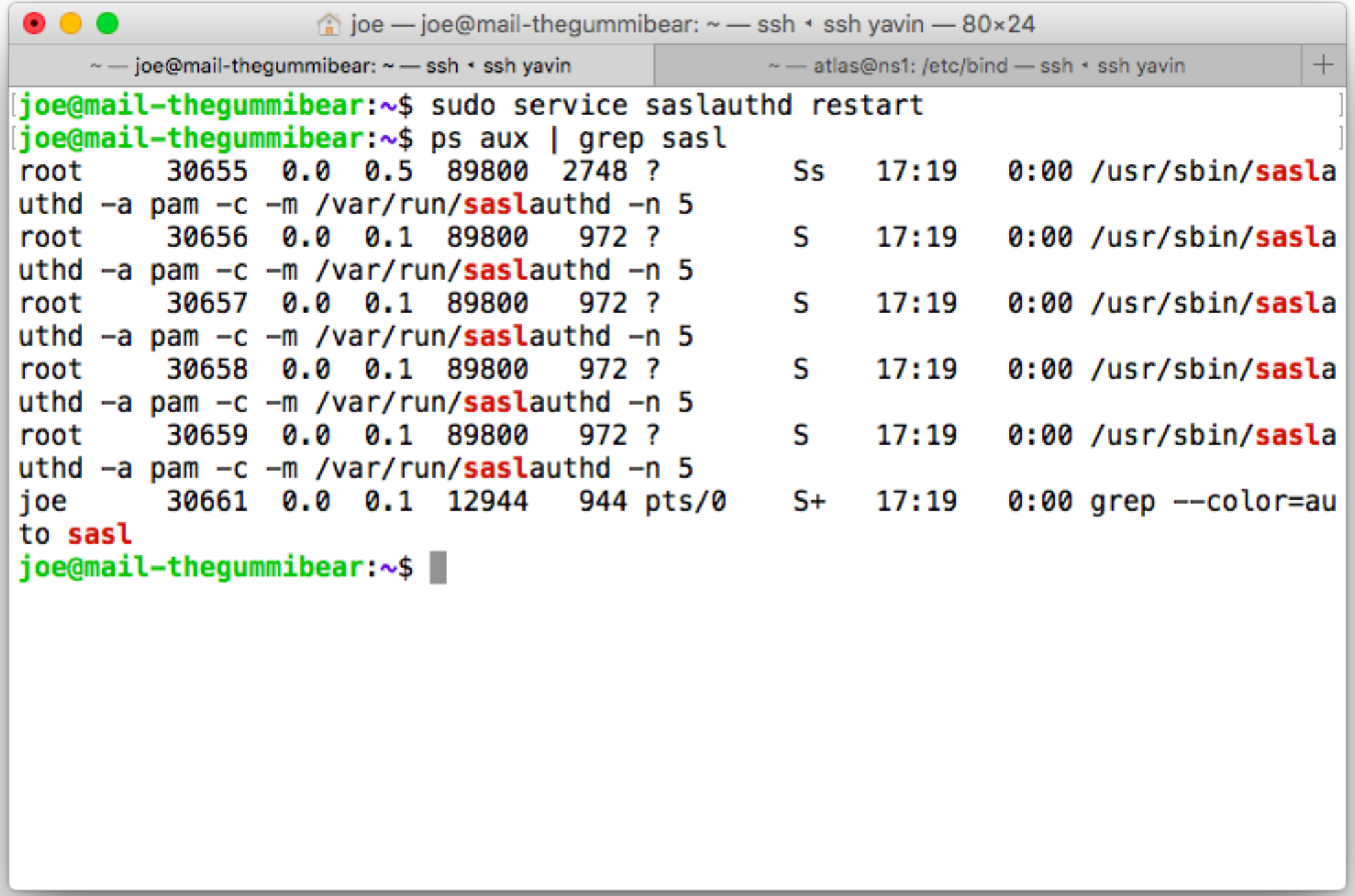

joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ echo "Install secure authentication service"
Install secure authentication service
joe@mail-thegummibear:~$

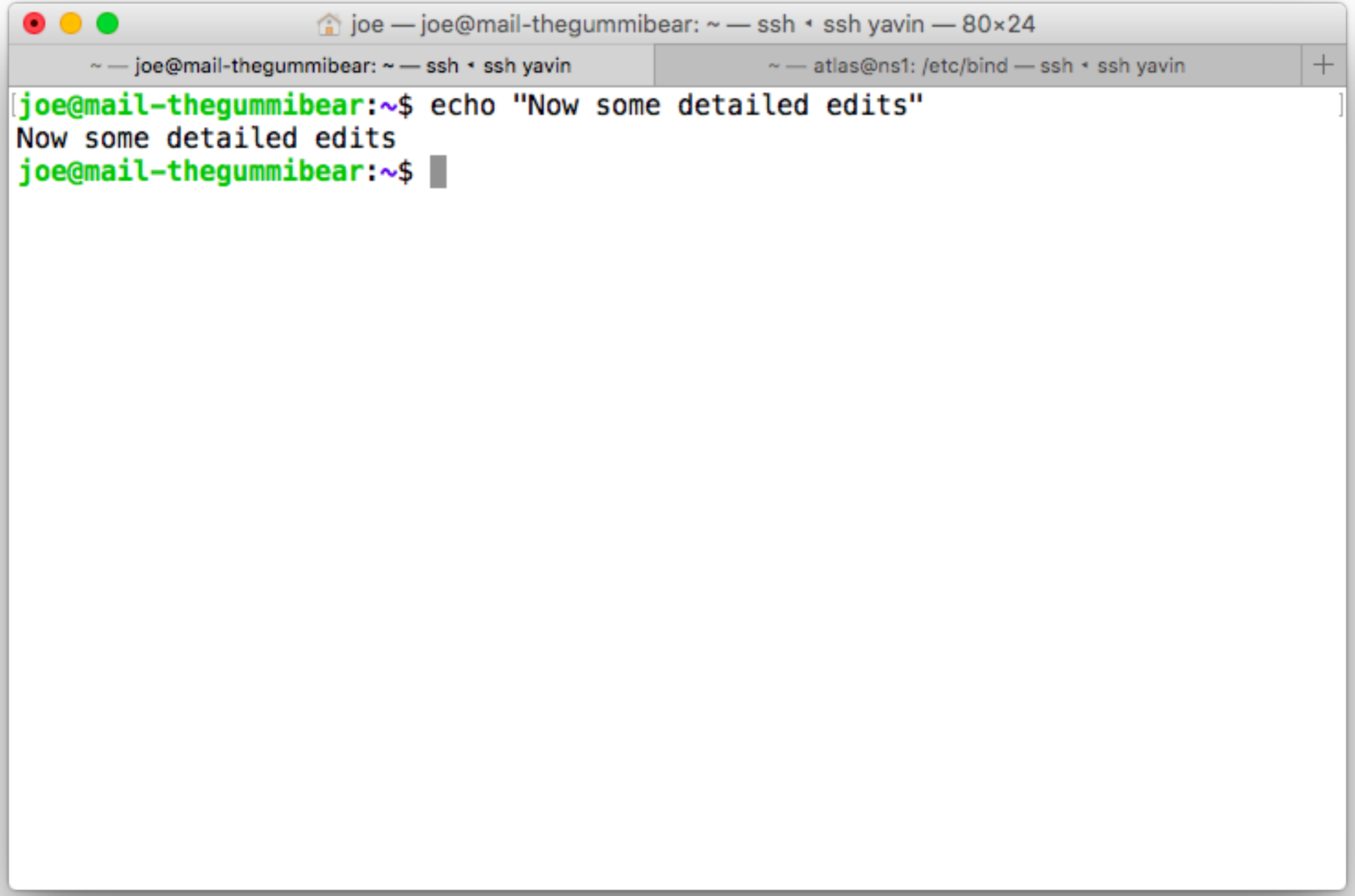

joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ echo "Install secure authentication service"
Install secure authentication service
joe@mail-thegummibear:~$ sudo apt-get install sasl2-bin

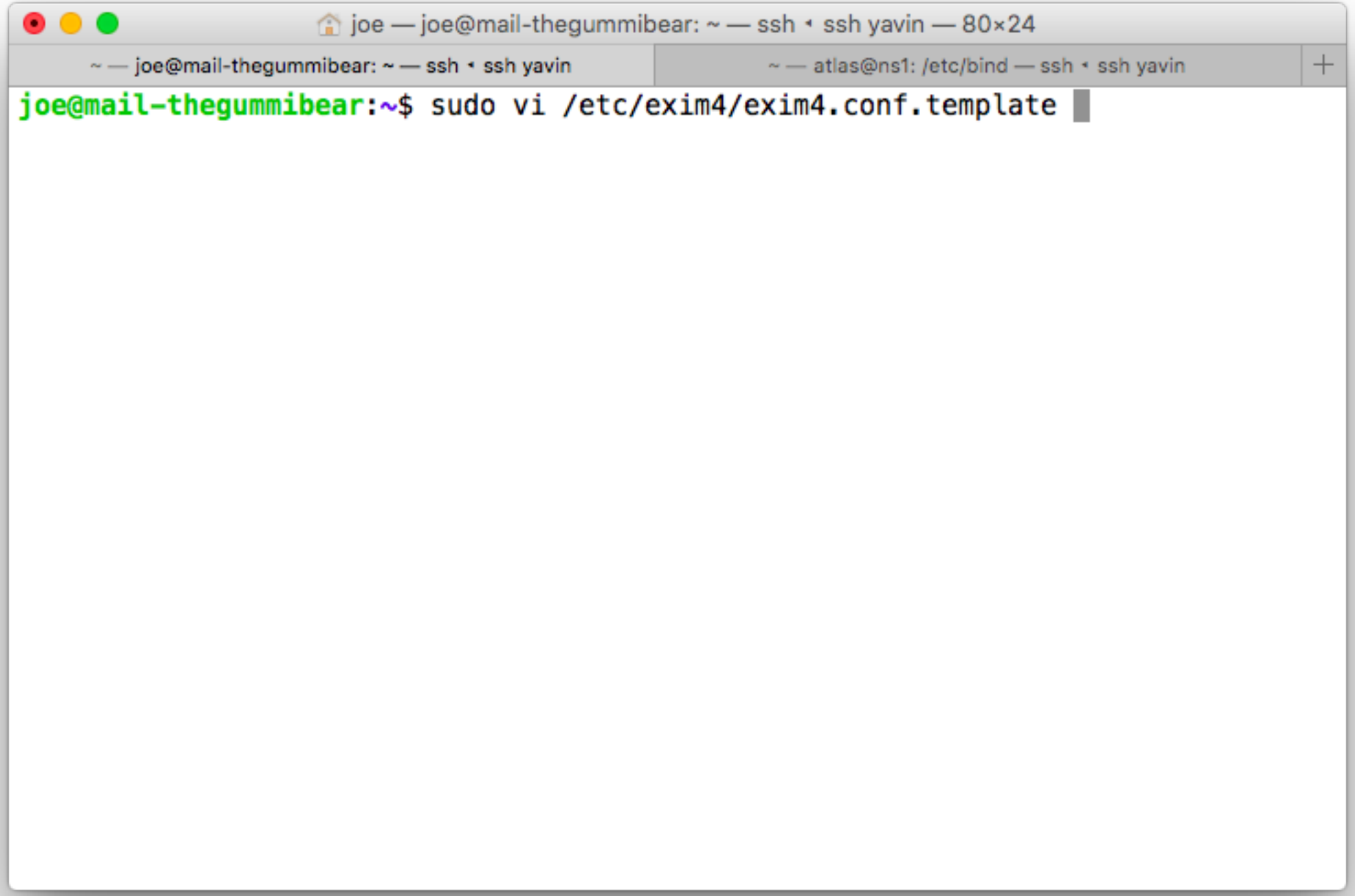

joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ sudo vi /etc/default/saslauthd

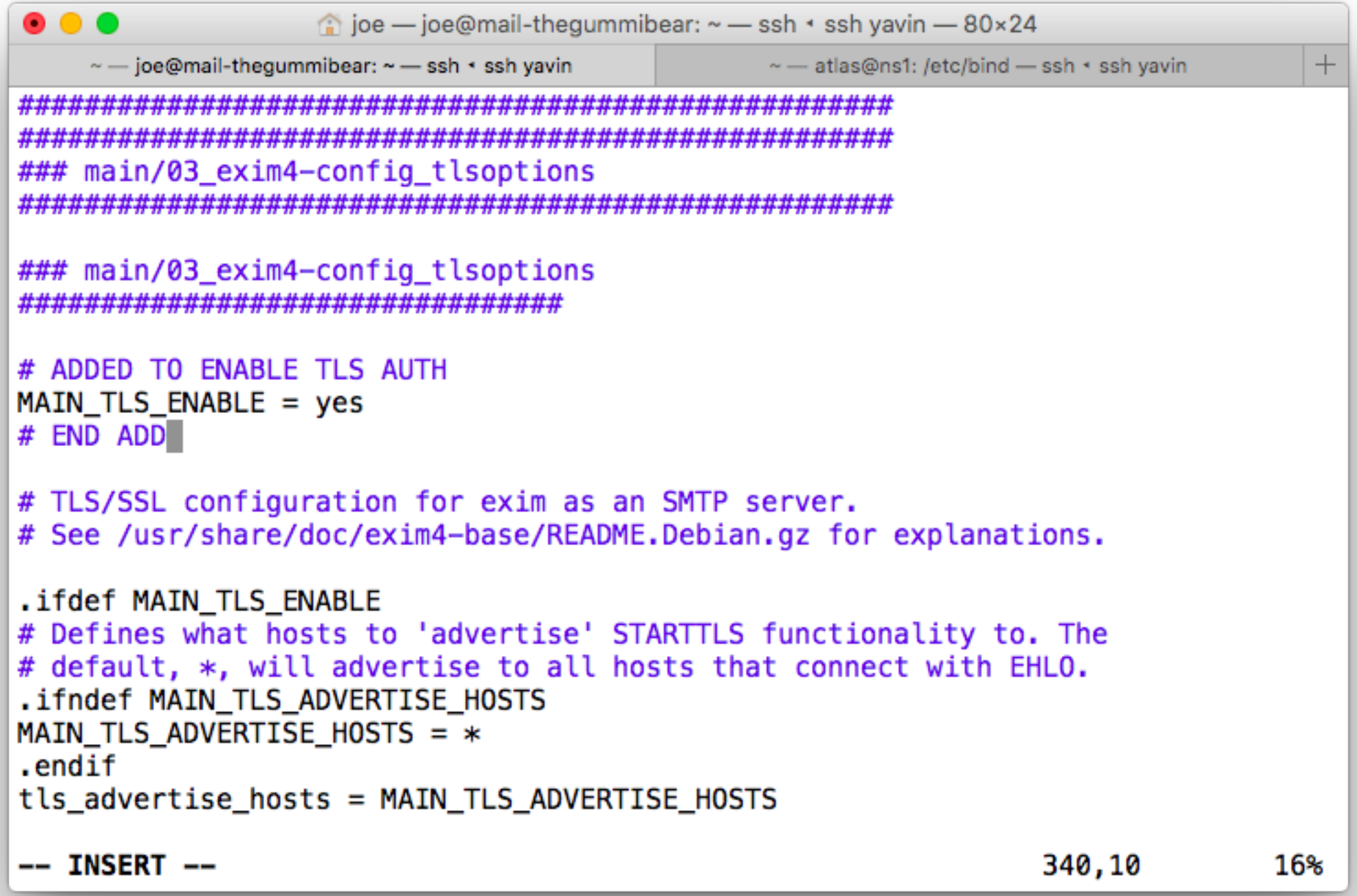

joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
#
Settings for saslauthd daemon
Please read /usr/share/doc/sasl2-bin/README.Debian for details.
#
# Should saslauthd run automatically on startup? (default: no)
START=yes
# Description of this saslauthd instance. Recommended.
# (suggestion: SASL Authentication Daemon)
DESC="SASL Authentication Daemon"
# Short name of this saslauthd instance. Strongly recommended.
# (suggestion: saslauthd)
NAME="saslauthd"
# Which authentication mechanisms should saslauthd use? (default: pam)
#
Available options in this Debian package:
getpwent -- use the getpwent() library function
kerberos5 -- use Kerberos 5
pam   -- use PAM
rimap   -- use a remote IMAP server
"/etc/default/saslauthd" 62L, 2315C written
7,9
Top

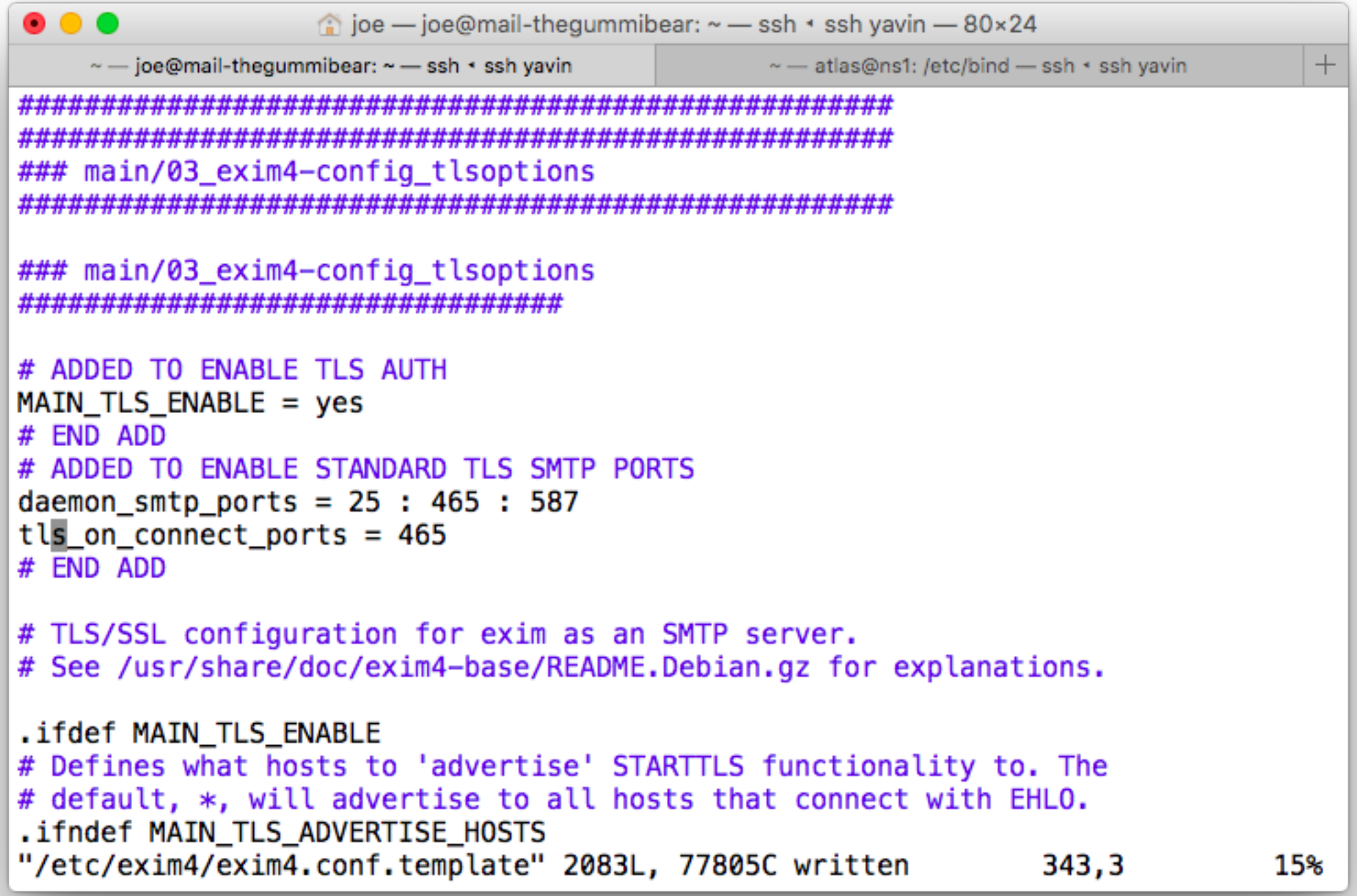

joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
#
Settings for saslauthd daemon
Please read /usr/share/doc/sasl2-bin/README.Debian for details.
#
# Should saslauthd run automatically on startup? (default: no)
START=yes
# Description of this saslauthd instance. Recommended.
# (suggestion: SASL Authentication Daemon)
DESC="SASL Authentication Daemon"
# Short name of this saslauthd instance. Strongly recommended.
# (suggestion: saslauthd)
NAME="saslauthd"
# Which authentication mechanisms should saslauthd use? (default: pam)
#
Available options in this Debian package:
getpwent -- use the getpwent() library function
kerberos5 -- use Kerberos 5
pam   -- use PAM
rimap   -- use a remote IMAP server
"/etc/default/saslauthd" 62L, 2315C written
7,9
Top

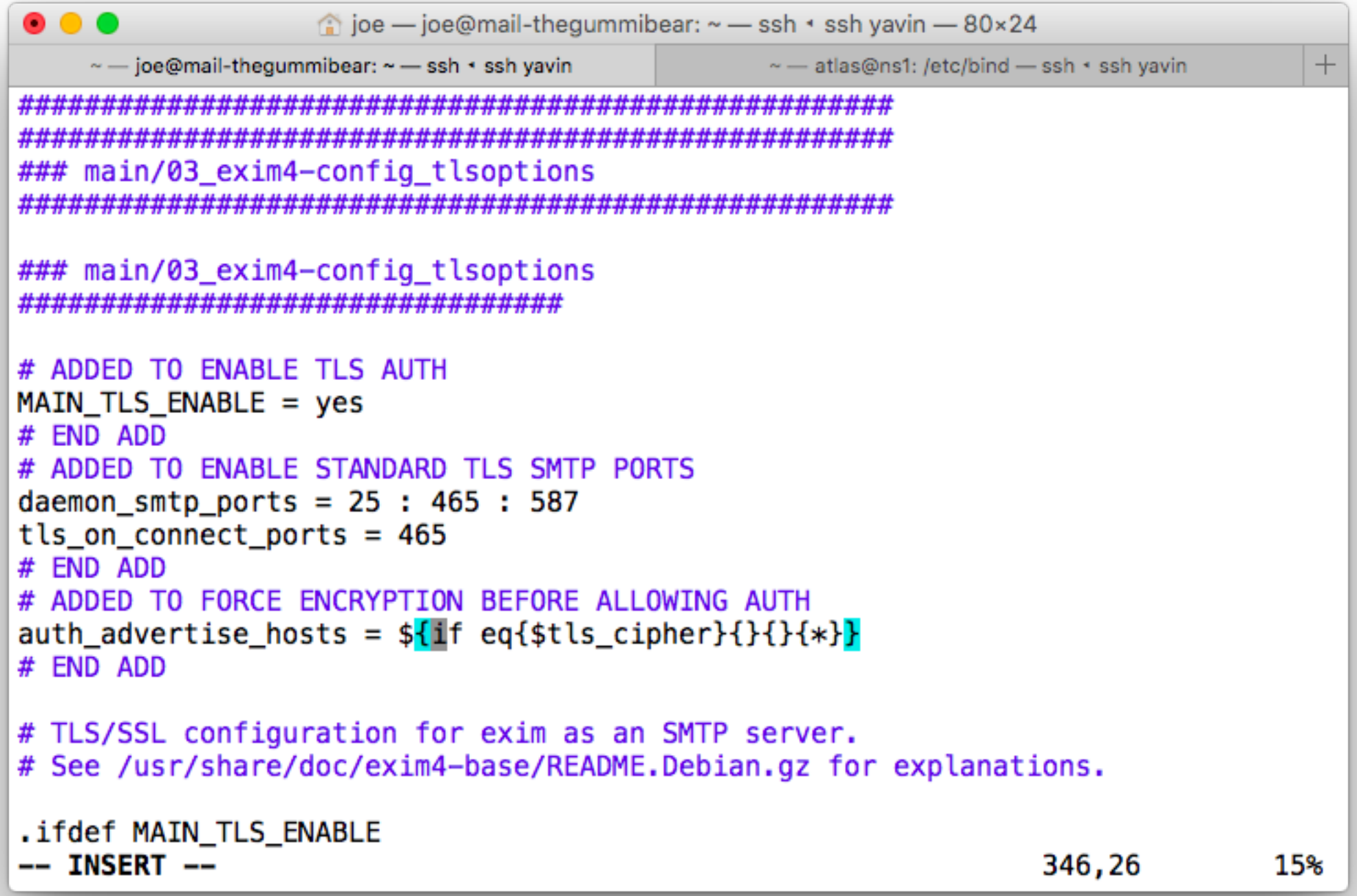

joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ sudo service saslauthd restart
joe@mail-thegummibear:~$ ps aux | grep sasl
root 30655 0.0 0.5 89800 2748 ? Ss 17:19 0:00 /usr/sbin/saslauthd -a pam -c -m /var/run/saslauthd -n 5
root 30656 0.0 0.1 89800 972 ? S 17:19 0:00 /usr/sbin/saslauthd -a pam -c -m /var/run/saslauthd -n 5
root 30657 0.0 0.1 89800 972 ? S 17:19 0:00 /usr/sbin/saslauthd -a pam -c -m /var/run/saslauthd -n 5
root 30658 0.0 0.1 89800 972 ? S 17:19 0:00 /usr/sbin/saslauthd -a pam -c -m /var/run/saslauthd -n 5
root 30659 0.0 0.1 89800 972 ? S 17:19 0:00 /usr/sbin/saslauthd -a pam -c -m /var/run/saslauthd -n 5
joe 30661 0.0 0.1 12944 944 pts/0 S+ 17:19 0:00 grep --color=auto sasl
joe@mail-thegummibear:~$

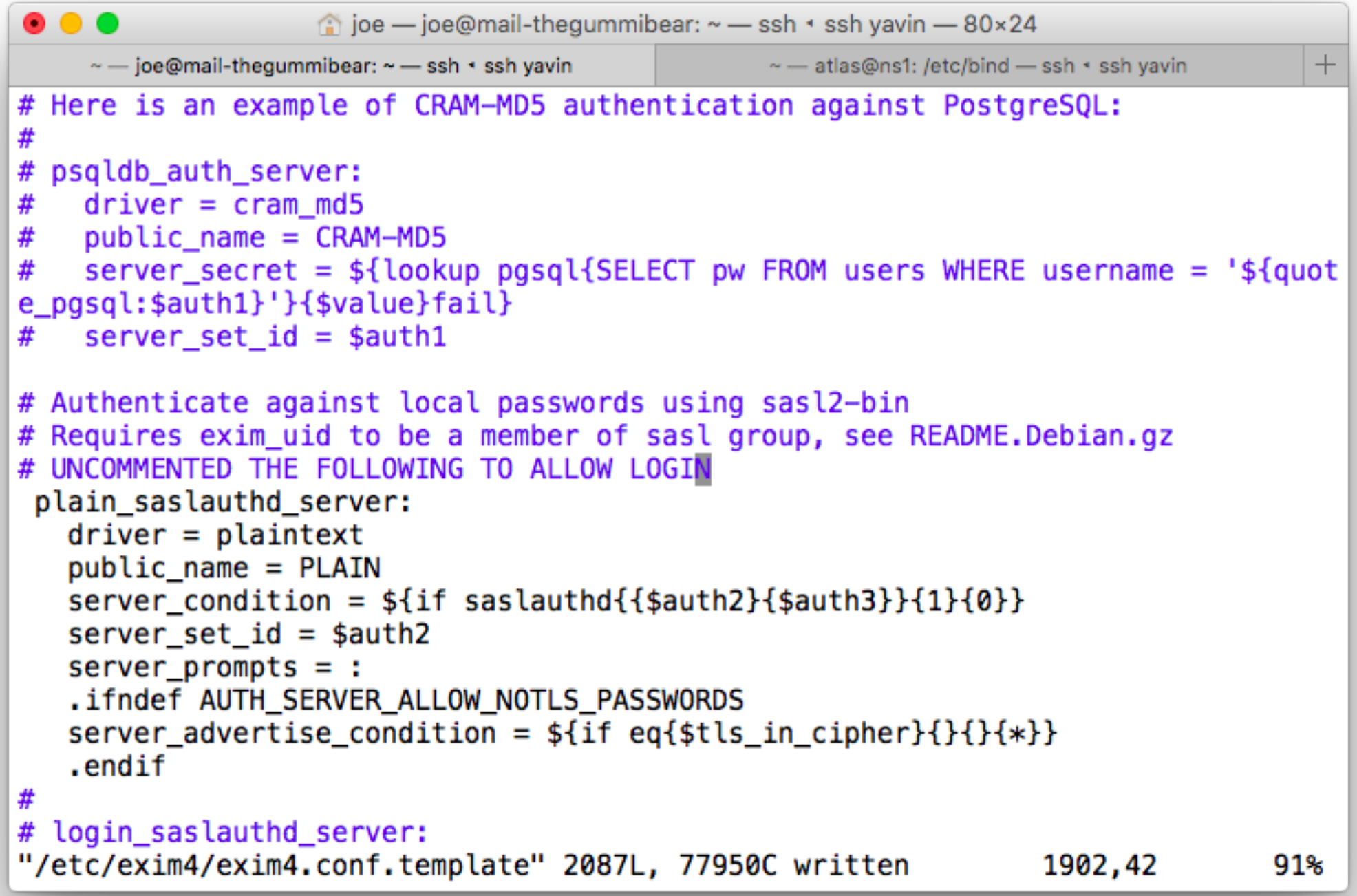

joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ echo "Now some detailed edits"
Now some detailed edits
joe@mail-thegummibear:~$

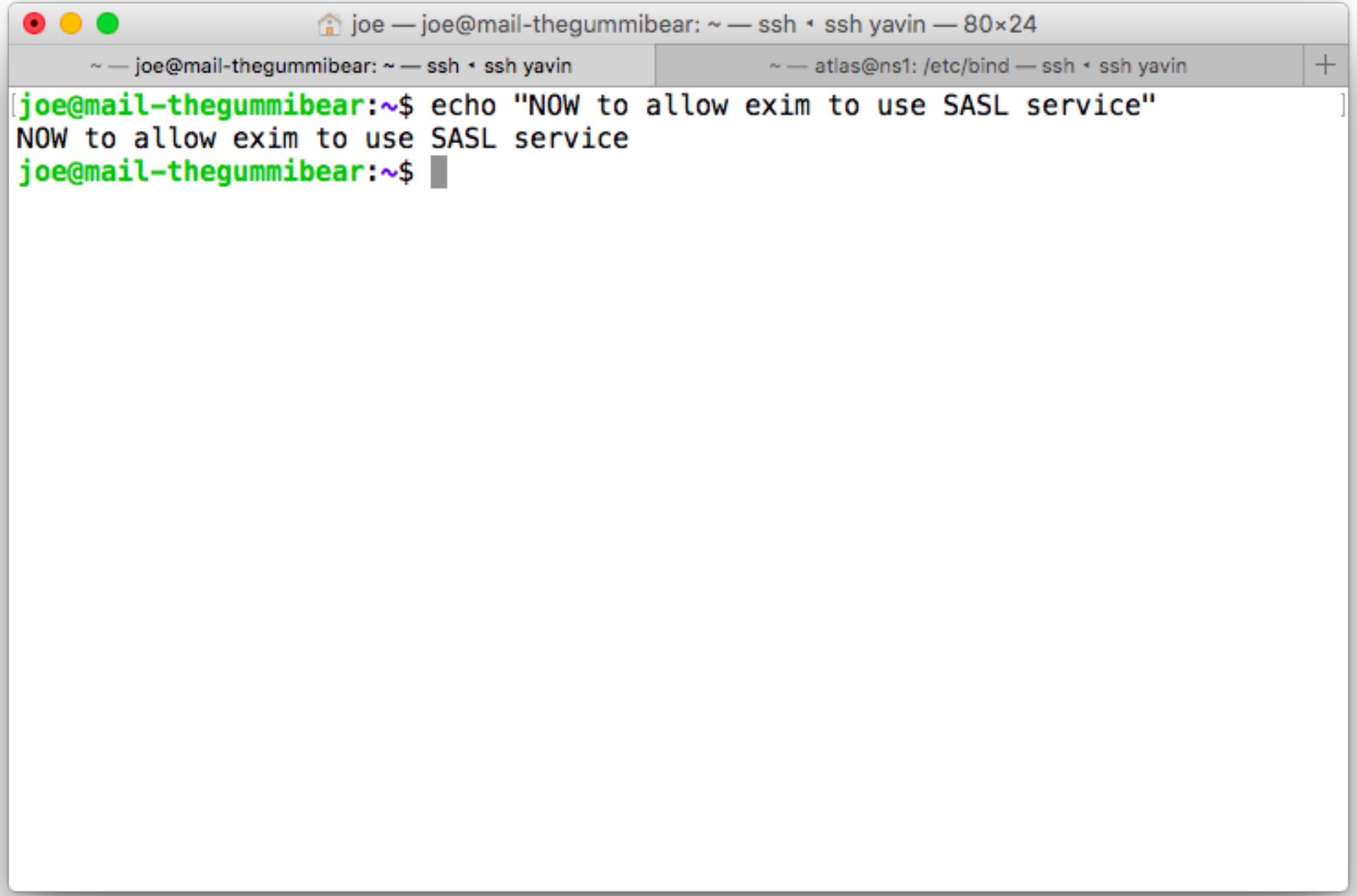

joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ sudo vi /etc/exim4/exim4.conf.template

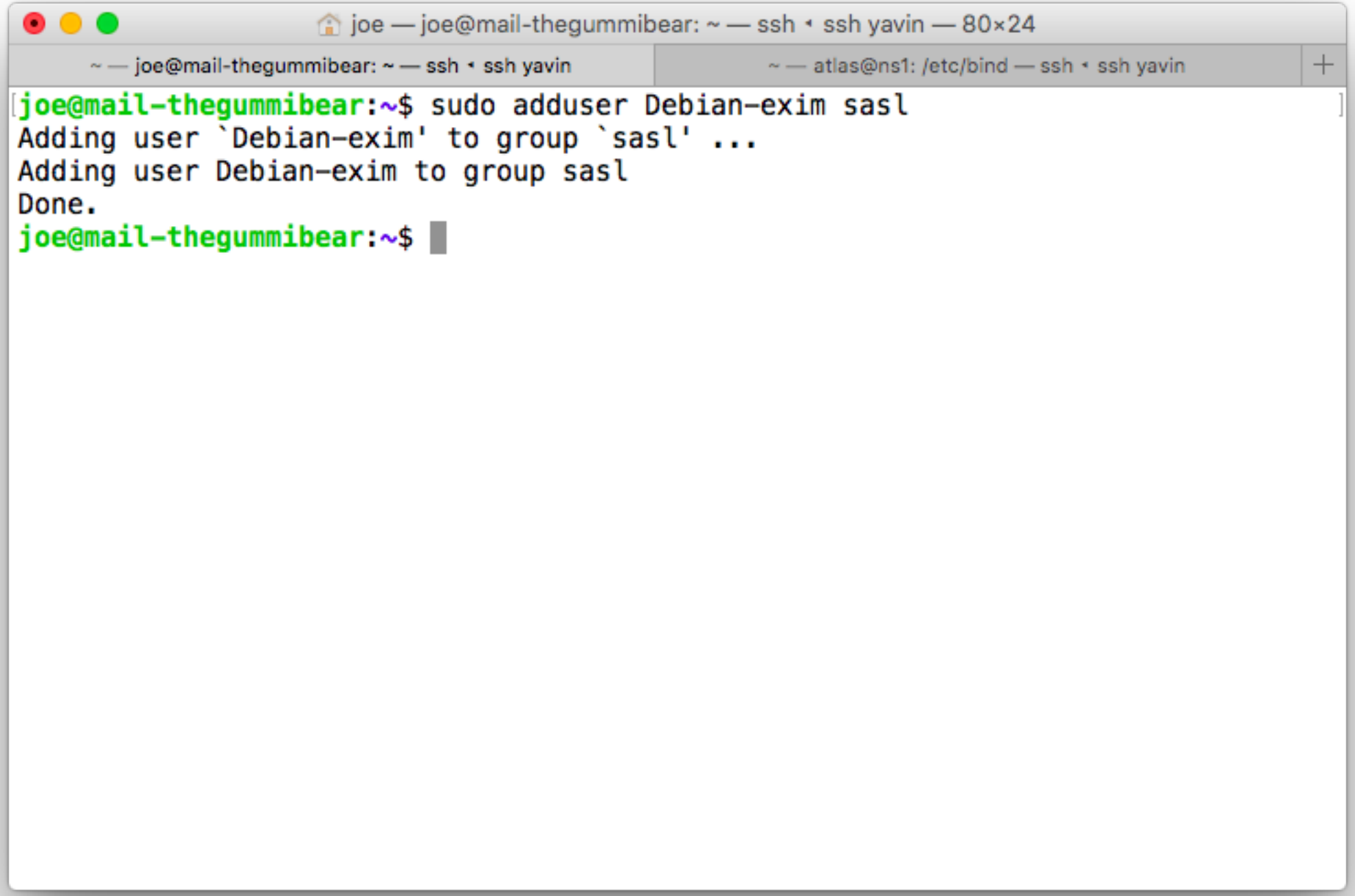

joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
##
##
main/03_exim4-config_tlsoptions
##
main/03_exim4-config_tlsoptions
####################################
# ADDED TO ENABLE TLS AUTH
MAIN_TLS_ENABLE = yes
# END ADD
# TLS/SSL configuration for exim as an SMTP server.
# See /usr/share/doc/exim4-base/README.Debian.gz for explanations.
.ifdef MAIN_TLS_ENABLE
Defines what hosts to 'advertise' STARTTLS functionality to. The
default, *, will advertise to all hosts that connect with EHLO.
.ifndef MAIN_TLS_ADVERTISE_HOSTS
MAIN_TLS_ADVERTISE_HOSTS = *
.endif
tls_advertise_hosts = MAIN_TLS_ADVERTISE_HOSTS
-- INSERT --
340,10
16%

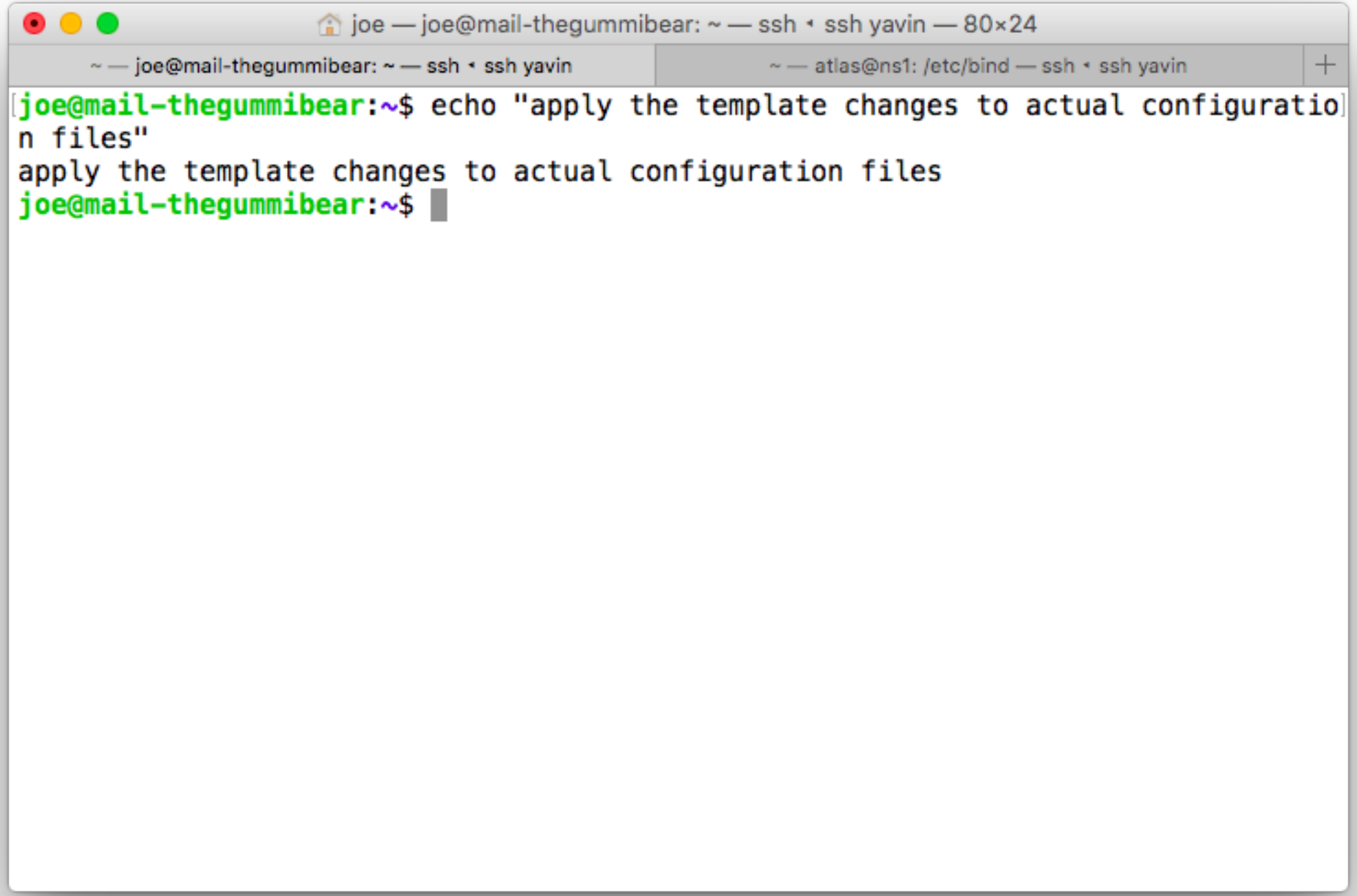

joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
##
##
main/03_exim4-config_tlsoptions
##
main/03_exim4-config_tlsoptions
####################################
# ADDED TO ENABLE TLS AUTH
MAIN_TLS_ENABLE = yes
# END ADD
# ADDED TO ENABLE STANDARD TLS SMTP PORTS
daemon_smtp_ports = 25 : 465 : 587
tls_on_connect_ports = 465
# END ADD
# TLS/SSL configuration for exim as an SMTP server.
# See /usr/share/doc/exim4-base/README.Debian.gz for explanations.
.ifdef MAIN_TLS_ENABLE
Defines what hosts to 'advertise' STARTTLS functionality to. The
default, *, will advertise to all hosts that connect with EHLO.
.ifndef MAIN_TLS_ADVERTISE_HOSTS
"/etc/exim4/exim4.conf.template" 2083L, 77805C written
343,3
15%

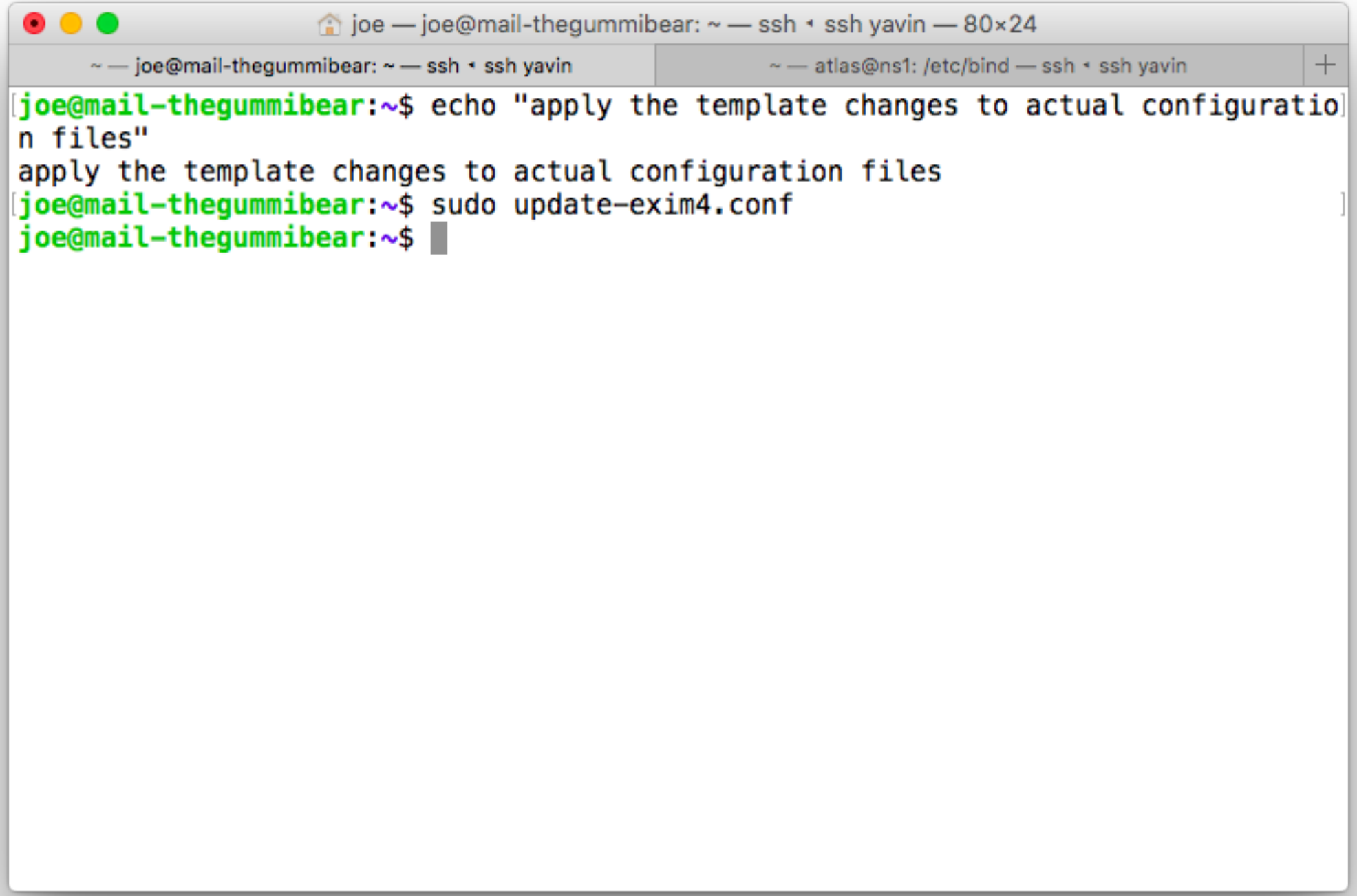

joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
##
##
main/03_exim4-config_tlsoptions
##
main/03_exim4-config_tlsoptions
####################################
# ADDED TO ENABLE TLS AUTH
MAIN_TLS_ENABLE = yes
# END ADD
# ADDED TO ENABLE STANDARD TLS SMTP PORTS
daemon_smtp_ports = 25 : 465 : 587
tls_on_connect_ports = 465
# END ADD
# ADDED TO FORCE ENCRYPTION BEFORE ALLOWING AUTH
auth_advertise_hosts = ${if eq{$tls_cipher}{}{}{*}}
# END ADD
# TLS/SSL configuration for exim as an SMTP server.
# See /usr/share/doc/exim4-base/README.Debian.gz for explanations.
.ifdef MAIN_TLS_ENABLE
-- INSERT --
346,26
15%

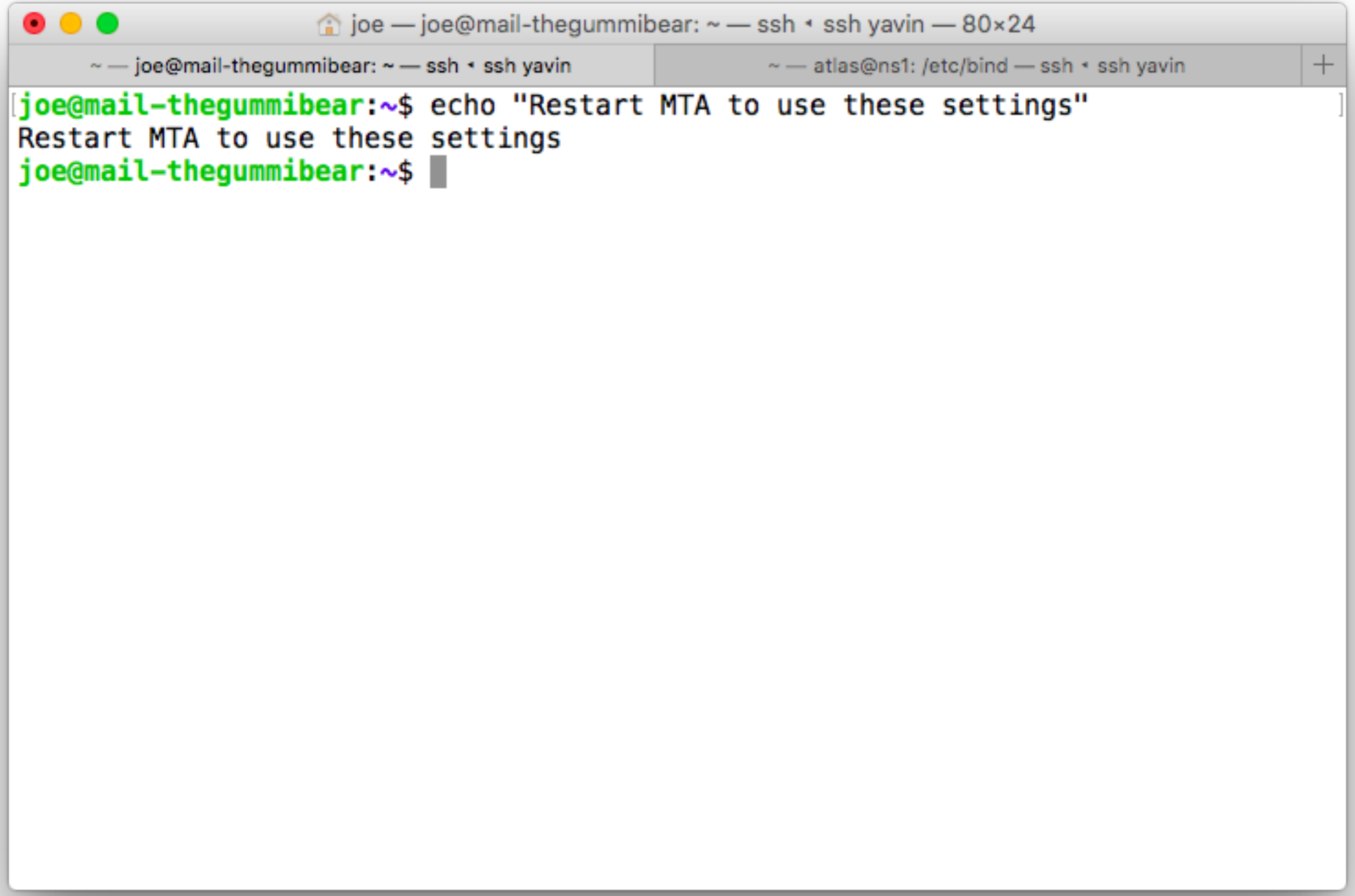

joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
# Here is an example of CRAM-MD5 authentication against PostgreSQL:
#
psqldb_auth_server:
driver = cram_md5
public_name = CRAM-MD5
server_secret = ${lookup pgsql{SELECT pw FROM users WHERE username = '${quot
e_pgsql:$auth1}'}{$value}fail}
server_set_id = $auth1
Authenticate against local passwords using sasl2-bin
Requires exim_uid to be a member of sasl group, see README.Debian.gz
UNCOMMENTED THE FOLLOWING TO ALLOW LOGIN
 plain_saslauthd_server:
   driver = plaintext
   public_name = PLAIN
   server_condition = ${if saslauthd{{$auth2}{$auth3}}{1}{0}}
   server_set_id = $auth2
   server_prompts = :
   .ifndef AUTH_SERVER_ALLOW_NOTLS_PASSWORDS
   server_advertise_condition = ${if eq{$tls_in_cipher}{}{}{*}}
   .endif
#
login_saslauthd_server:
"/etc/exim4/exim4.conf.template" 2087L, 77950C written
1902,42
91%


joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ echo "NOW to allow exim to use SASL service"
NOW to allow exim to use SASL service
joe@mail-thegummibear:~$

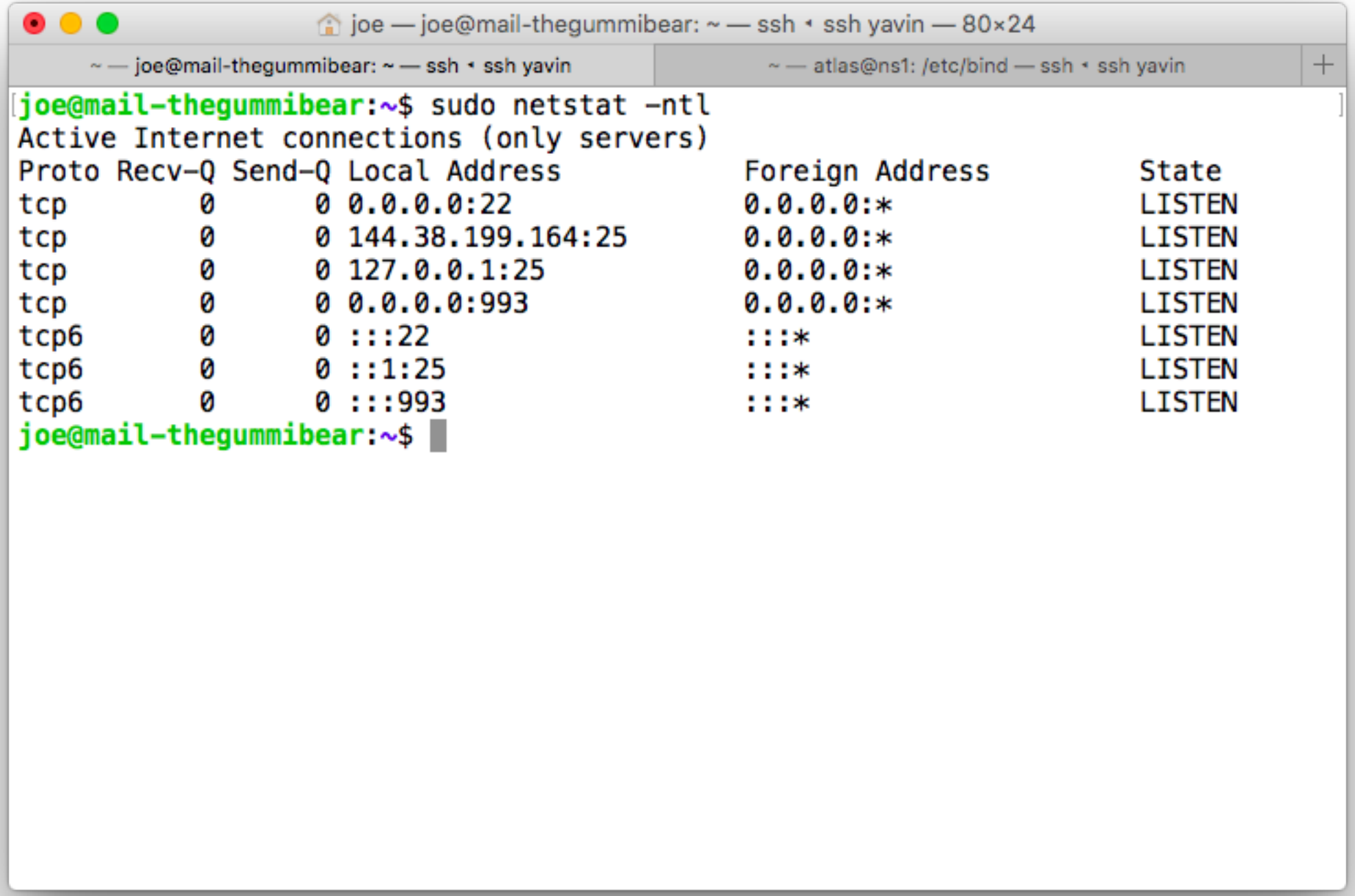

joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ sudo adduser Debian-exim sasl
Adding user `Debian-exim' to group `sasl' ...
Adding user Debian-exim to group sasl
Done.
joe@mail-thegummibear:~$


joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ echo "apply the template changes to actual configuratio
n files"
apply the template changes to actual configuration files
joe@mail-thegummibear:~$


joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ echo "apply the template changes to actual configuratio
n files"
apply the template changes to actual configuration files
joe@mail-thegummibear:~$ sudo update-exim4.conf
joe@mail-thegummibear:~$


joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ echo "Restart MTA to use these settings"
Restart MTA to use these settings
joe@mail-thegummibear:~$


joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ echo "Check open ports"
Check open ports
joe@mail-thegummibear:~$


joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ sudo netstat -ntl
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address Foreign Address State
tcp 0 0 0.0.0.0:22 0.0.0.0:* LISTEN
tcp 0 0 144.38.199.164:25 0.0.0.0:* LISTEN
tcp 0 0 127.0.0.1:25 0.0.0.0:* LISTEN
tcp 0 0 0.0.0.0:993 0.0.0.0:* LISTEN
tcp6 0 0 :::22 :::* LISTEN
tcp6 0 0 ::1:25 :::* LISTEN
tcp6 0 0 :::993 :::* LISTEN
joe@mail-thegummibear:~$


joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ echo "not there"
not there
joe@mail-thegummibear:~$


joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80×24
~ — joe@mail-thegummibear: ~ — ssh • ssh yavin
~ — atlas@ns1: /etc/bind — ssh • ssh yavin
joe@mail-thegummibear:~$ sudo service exim4 restart
joe@mail-thegummibear:~$ sudo netstat -ntl
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address Foreign Address State
tcp 0 0 144.38.199.164:587 0.0.0.0:* LISTEN
tcp 0 0 127.0.0.1:587 0.0.0.0:* LISTEN
tcp 0 0 144.38.199.164:465 0.0.0.0:* LISTEN
tcp 0 0 127.0.0.1:465 0.0.0.0:* LISTEN
tcp 0 0 0.0.0.0:22 0.0.0.0:* LISTEN
tcp 0 0 144.38.199.164:25 0.0.0.0:* LISTEN
tcp 0 0 127.0.0.1:25 0.0.0.0:* LISTEN
tcp 0 0 0.0.0.0:993 0.0.0.0:* LISTEN
tcp6 0 0 ::1:587 :::* LISTEN
tcp6 0 0 ::1:465 :::* LISTEN
tcp6 0 0 :::22 :::* LISTEN
tcp6 0 0 ::1:25 :::* LISTEN
tcp6 0 0 :::993 :::* LISTEN
joe@mail-thegummibear:~$ echo "Yay it is there now"