```
[joe@mail-thegummibear:~$ echo "Install signed cert for sasl"
Install signed cert for sasl
joe@mail-thegummibear:~$ ▮
```

```
joe@mail-thegummibear:~$ sudo apt update
```

```
joe@mail-thegummibear:~$ sudo apt install letsencrypt
```

```
joe@mail-thegummibear:~$ certbot certonly --standalone -d mail.thegummibear.com
```

```
joe — joe@mail-thegummibear: ~ — ssh ◄ ssh yavin — 88×21

[joe@mail-thegummibear:~$ certbot certonly --standalone -d mail.thegummibear.com
The following error was encountered:
[Errno 13] Permission denied: '/var/log/letsencrypt'
Either run as root, or set --config-dir, --work-dir, and --logs-dir to writeable paths.
[joe@mail-thegummibear:~$ sudo certbot certonly --standalone -d mail.thegummibear.com
Saving debug log to /var/log/letsencrypt/letsencrypt.log
Plugins selected: Authenticator standalone, Installer None
Enter email address (used for urgent renewal and security notices) (Enter 'c' to
cancel): joe@thegummibear.com

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Please read the Terms of Service at
https://letsencrypt.org/documents/LE-SA-v1.2-November-15-2017.pdf. You must
agree in order to register with the ACME server at
https://acme-v02.api.letsencrypt.org/directory

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(A)gree/(C)ancel: A
```

```
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Please read the Terms of Service at
https://letsencrypt.org/documents/LE-SA-v1.2-November-15-2017.pdf. You must
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https://acme-v02.api.letsencrypt.org/directory
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
(A)gree/(C)ancel: A

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
Would you be willing to share your email address with the Electronic Frontier
Foundation, a founding partner of the Let's Encrypt project and the non-profit
organization that develops Certbot? We'd like to send you email about our work
encrypting the web, EFF news, campaigns, and ways to support digital freedom.
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
(Y)es/(N)o: N
Obtaining a new certificate
Performing the following challenges:
http-01 challenge for mail.thegummibear.com
Waiting for verification...
Cleaning up challenges
```
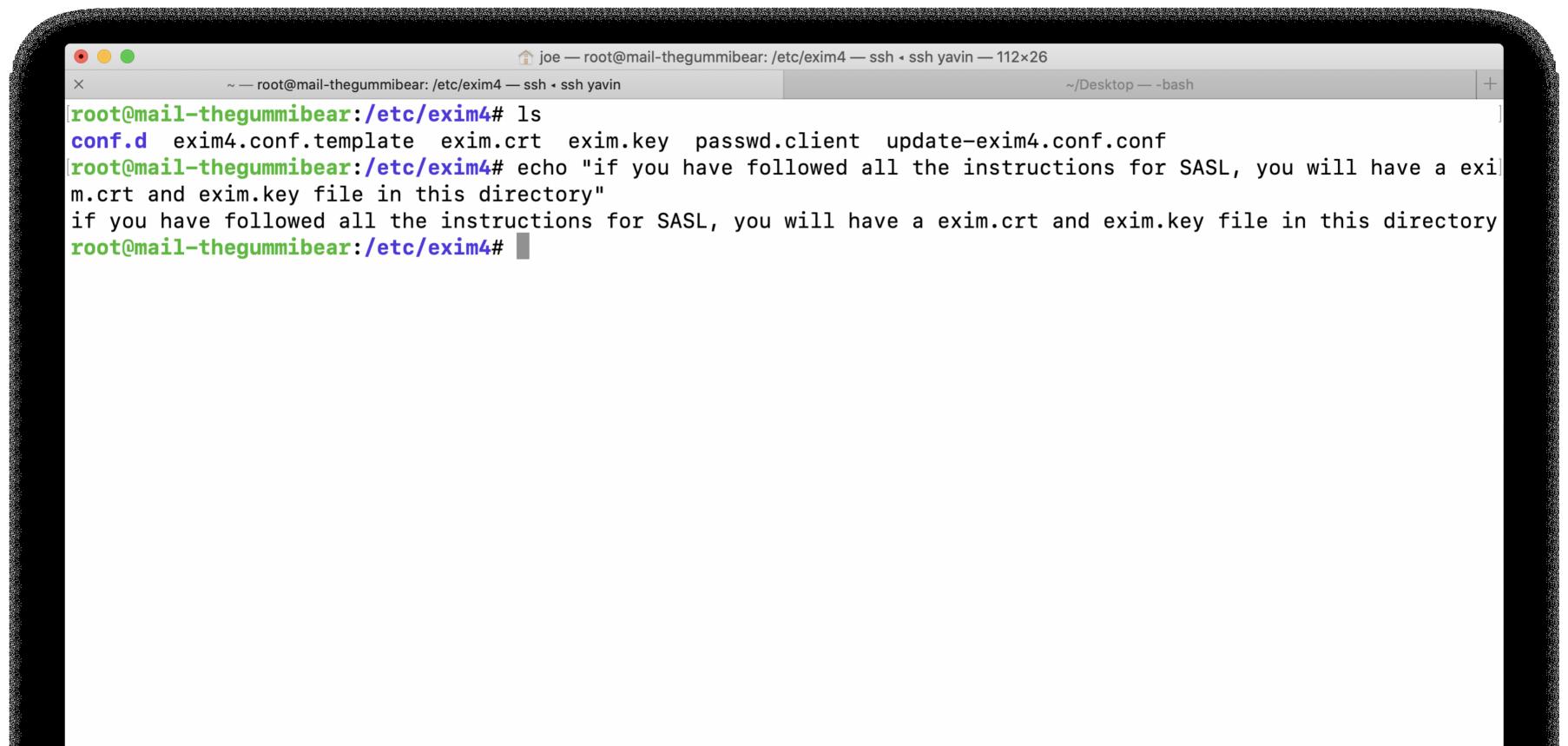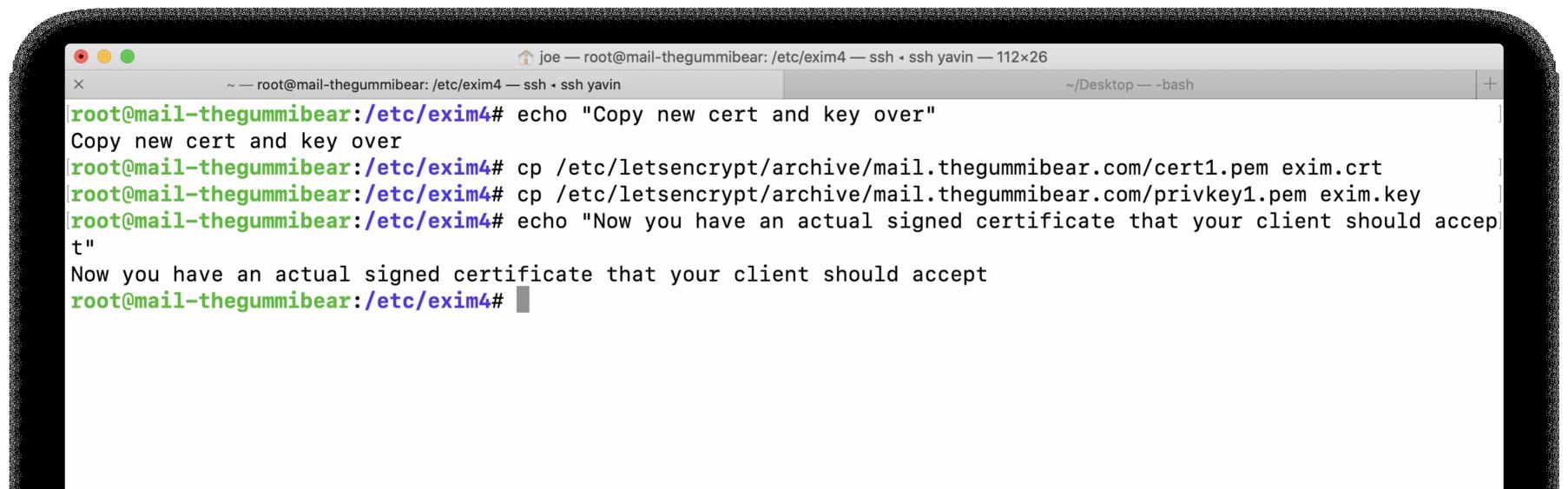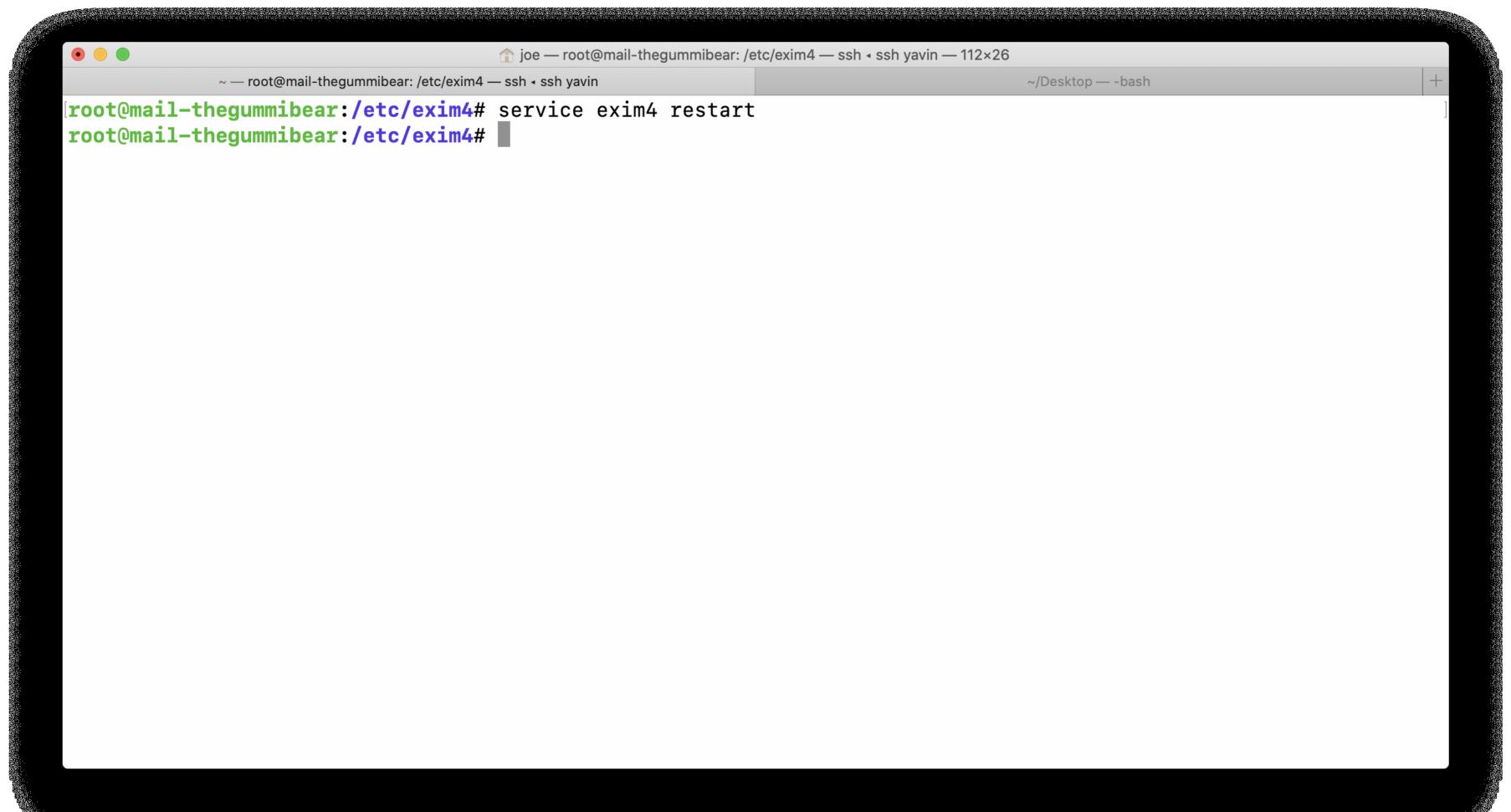
IMPORTANT NOTES:
- Congratulations! Your certificate and chain have been saved at:
  /etc/letsencrypt/live/mail.thegummibear.com/fullchain.pem
  Your key file has been saved at:
  /etc/letsencrypt/live/mail.thegummibear.com/privkey.pem
  Your cert will expire on 2020-12-28. To obtain a new or tweaked
  version of this certificate in the future, simply run certbot
  again. To non-interactively renew *all* of your certificates, run
  "certbot renew"
- Your account credentials have been saved in your Certbot
  configuration directory at /etc/letsencrypt. You should make a
  secure backup of this folder now. This configuration directory will
  also contain certificates and private keys obtained by Certbot so
  making regular backups of this folder is ideal.
- If you like Certbot, please consider supporting our work by:

  Donating to ISRG / Let's Encrypt: https://letsencrypt.org/donate
  Donating to EFF: https://eff.org/donate-le

joe@mail-thegummibear:~$

```
[root@mail-thegummibear:/etc/exim4# ls
conf.d  exim4.conf.template  exim.crt  exim.key  passwd.client  update-exim4.conf.conf
[root@mail-thegummibear:/etc/exim4# echo "if you have followed all the instructions for SASL, you will have a exi
m.crt and exim.key file in this directory"
if you have followed all the instructions for SASL, you will have a exim.crt and exim.key file in this directory
root@mail-thegummibear:/etc/exim4# 
```

```
[root@mail-thegummibear:/etc/exim4# echo "make a backup"
make a backup
[root@mail-thegummibear:/etc/exim4# mv exim
exim4.conf.template   exim.crt              exim.key
[root@mail-thegummibear:/etc/exim4# mv exim.key exim.key.0
[root@mail-thegummibear:/etc/exim4# mv exim.crt exim.crt.0
[root@mail-thegummibear:/etc/exim4#
```

```
[root@mail-thegummibear:/etc/exim4# echo "Copy new cert and key over"
Copy new cert and key over
[root@mail-thegummibear:/etc/exim4# cp /etc/letsencrypt/archive/mail.thegummibear.com/cert1.pem exim.crt
[root@mail-thegummibear:/etc/exim4# cp /etc/letsencrypt/archive/mail.thegummibear.com/privkey1.pem exim.key
[root@mail-thegummibear:/etc/exim4# echo "Now you have an actual signed certificate that your client should accep
t"
Now you have an actual signed certificate that your client should accept
root@mail-thegummibear:/etc/exim4# 
```

```
[root@mail-thegummibear:/etc/exim4# service exim4 restart
root@mail-thegummibear:/etc/exim4#
```

```
joe@mail-thegummibear:/etc/exim4$ ls -l
total 108
drwxr-xr-x 9 root root              4096 Feb 20  2019 conf.d
-rw-r--r-- 1 root root             79032 Apr 25  2019 exim4.conf.template
-rw-r--r-- 1 root root              1923 Sep 29 14:18 exim.crt
-rw-r--r-- 1 root root              1923 Sep 29 14:11 exim.crt.0
-rw-r--r-- 1 root root              1704 Sep 29 14:18 exim.key
-rw-r--r-- 1 root root              1704 Sep 29 14:11 exim.key.0
-rw-r----- 1 root Debian-exim       204 Feb 14  2018 passwd.client
-rw-r--r-- 1 root root               545 Nov 11  2019 update-exim4.conf.conf
joe@mail-thegummibear:/etc/exim4$ echo "make sure that others have read permissions on your
cert and key"
make sure that others have read permissions on your cert and key
joe@mail-thegummibear:/etc/exim4$
```