To spin up the OpenSSL Docker container, run the following docker run command from the keys directory.

**Listing 6.1: Spinning up OpenSSL in a Docker container**

\> docker run -it -v $(pwd):/export prabath/openssl

#

The docker run command starts OpenSSL in a Docker container with a bind mount, which maps the keys directory (or the current directory, which is indicated by ${pwd}) from the host filesystem to the /export directory of the container filesystem. This bind mount lets you share part of the host filesystem with the container filesystem. When the OpenSSL container generates certificates, those are written to the /export directory of the container filesystem. Because we have a bind mount, everything inside the /export directory of the container filesystem is also accessible from the keys directory of the host filesystem.

When you run the command in listing 6.1 for the first time, it may take a couple of minutes to execute. It ends with a command prompt, where you can execute our script as in the following command to create all the keys. Once the command completes successfully, you can type exit at the command prompt to exit from the Docker container:

# sh /export/gen-key.sh

# exit

Now, if you look at the keys directory in the host filesystem, you'll find the following set of files:

* ca\_key.pem and ca\_cert.pem files in the keys/ca directory
* orderprocessing.jks file in the keys/orderprocessing directory
* inventory.jks file in the keys/inventory directory