Beyond Linux® From Scratch (systemd Edition) - Version 12.1		
Chapter 5. File Systems and Disk Management		
	/	
Nettle-3.9.1	OpenSSH-9.6p1	

NSS-3.98

NSS

NSS( )

. NSS SSL v2 v3, TLS,
PKCS #5, PKCS #7, PKCS #11, PKCS #12, S/MIME, X.509 v3
. SSL S/MIME
.

LFS 12.1 .

- (HTTP): [nss-3.98.tar.gz](#)
- MD5 Sum: 4502fcae1b32da310fffdfb3c67f6985
- : 73 MB
- : 312 MB (268 MB)
- : 0.9 SBU (=4, AMD Ryzens 16 SBU Intel
  30 SBU)

- : [nss-3.98-standalone-1.patch](#)

NSS

- [NSPR-4.35](#)

- [SQLite-3.45.1](#)
- [p11-kit-0.25.3](#)

NSS

NSS   .

```
patch -Np1 -i ../nss-3.98-standalone-1.patch &&

cd nss &&

make BUILD_OPT=1                            \
  NSPR_INCLUDE_DIR=/usr/include/nspr  \
  USE_SYSTEM_ZLIB=1                        \
  ZLIB_LIBS=-lz                            \
  NSS_ENABLE_WERROR=0                      \
  $([ $(uname -m) = x86_64 ] && echo USE_64=1) \
  $([ -f /usr/include/sqlite3.h ] && echo NSS_USE_SYSTEM_SQLITE=1)
```

.[1] :

```
cd tests &&
HOST=localhost DOMSUF=localdomain ./all.sh
cd ../
```

- HOST=localhost   DOMSUF=localdomain   .
  FQDN   , LFS   myhostname
       localhost.localdomain
                   .
- .
              all.sh   .
- .
       .   PID
                   .
- (HTML   !)   ./../test_results/security/localhost.1/results.html
                   .
- .

root

```
cd ../dist                                                      &&

install -v -m755 Linux*/lib/*.so                  /usr/lib           &&
install -v -m644 Linux*/lib/{*.chk,libcrmf.a} /usr/lib           &&
```

```
install -v -m755 -d                                /usr/include/nss      &&
cp -v -RL {public,private}/nss/*                   /usr/include/nss      &&

install -v -m755 Linux*/bin/{certutil,nss-config,pk12util} /usr/bin &&

install -v -m644 Linux*/lib/pkgconfig/nss.pc  /usr/lib/pkgconfig
```

- *BUILD_OPT=1:*   .

- *NSPR_INCLUDE_DIR=/usr/include/nspr:*
  nspr   .
- *USE_SYSTEM_ZLIB=1:*
  libssl3.so   zlib
                 .
- *ZLIB_LIBS=-lz:*
          zlib   .
- **$([$(uname -m) = x86_64] && echo USE_64=1):**
  USE_64=1   x86_64   ,   **make**   32
                     . ($(uname -m) = x86_64]   32
           .
- **([-f /usr/include/sqlite3.h] && echo NSS_USE_SYSTEM_SQLITE=1):**
             sqlite   NSS_USE_SYSTEM_SQLITE=1
       echo   libsoftokn3.so   sqlite   .
- *NSS_DISABLE_GTESTS=1:* NSS   **make**
                                   .

NSS

[p11-kit-0.25.3](https://gamu.kr/dokuwiki/)   , p11-kit trust module(`/usr/lib/pkcs11/p11-kit-trust.so`)
   `/usr/lib/libnssckbi.so`   NSS
`/usr/lib/libnssckbi.so`   CA   .
root   :

```
ln -sfv ./pkcs11/p11-kit-trust.so /usr/lib/libnssckbi.so
```

                        (`/usr/lib/libnssckbi.so`)
[make-ca-1.13](https://gamu.kr/dokuwiki/)   /usr/sbin/make-ca   -n   /etc/make-
ca/make-ca.conf   NSS DB   .

- 설치된 프로그램:
  certutil, nss-config, pk12util
- 설치된 라이브러리:
  libcrmf.a, libfreebl3.so, libfreeblpriv3.so, libnss3.so, libnssckbi.so, libnssckbi-testlib.so,
  libnssdbm3.so, libnsssysinit.so, libnssutil3.so, libpkcs11testmodule.so, libsmime3.so,

libsoftokn3.so,   libssl3.so.

-

/usr/include/nss

- **certutil**
  Mozilla   cert8.db
  key3.db   .   cert8.db
                            ,   ,   ,   ,
                        ,   , key3.db
                      .
- **nss-config**
  NSS   NSS   .
- **pk12util**
  pkcs #12   .

[1]

              9.2.   /etc/hostname, /etc/hosts
                                              .

            .