

Tool overview: <https://my.eng.utah.edu/~sdean/doc/Tools.html>

# Smartcard

- List smartcard readers: `opensc-tool -l`
- Scan smartcard readers regularly: `pcsc_scan`
- List PKCS11 modules: `p11-kit list-modules`

## p11tool

(sometimes it's necessary to provide the PKCS11 provider `--provider=/usr/lib/opensc-pkcs11.so`)

- List available tokens: `p11tool --list-tokens`
- List available token URLs: `p11tool --list-all`
- List all available objects in a token: `p11tool --list-all "<TOKEN URL>"`
- List all available certificates in a token: `p11tool --list-all-certs "<TOKEN URL>"`
- List all certificates that have an associated private key: `p11tool --list-certs "<TOKEN URL>"`
- List all available certificates marked as trusted: `p11tool --list-all-trusted "<TOKEN URL>"`
- List all available private keys in a token: `p11tool --list-all-trusted "<TOKEN URL>"`

## pkcs11-tool

- Test tokens: `pkcs11-tool --module /usr/lib/opensc-pkcs11.so --login --test`
- Display objects: `pkcs11-tool --module /usr/lib/opensc-pkcs11.so --login --list-objects`
- `pkcs11-tool --list-token-slots`

## pkcs15-tool

- List all card objects (compact): `pkcs15-tool --dump --short`
- List all card objects: `pkcs15-tool --dump`
- `pkcs15-tool --list-certificates`

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