mkcert Local trusted dev certs

CONCEPTS

mkcert makes a private CA on your machine, trusts it, and signs certificates with it. Browsers then accept your dev certs with no warning. Never share rootCA-key.pem: whoever has it can impersonate any site to you. Dev use only, never production.

mkcert -install CA in CAROOT
↓ trusts
Trust stores system, NSS, Java
↓ signs
Leaf cert + key your hostnames
One CA, many leaf certificates

Put flags before the names, otherwise they are ignored. mkcert does not configure your server: point it at the generated .pem and -key.pem files yourself.

SETUP

`mkcert -install`
Create local CA and trust it

`mkcert -uninstall`
Remove CA from trust stores

`mkcert -CAROOT`
Print CA folder

`sudo apt install libnss3-tools`
Linux: Firefox/Chrome NSS support

`brew install mkcert nss`
macOS install (nss for Firefox)

SETUP (cont.)

`choco install mkcert`
Windows install

`TRUST_STORES=system,nss mkcert -install`
Limit which stores are used

ISSUE CERTIFICATES

`mkcert <name> ...`
Cert for one or more names

`mkcert example.test localhost 127.0.0.1 ::1`
Hostnames plus IPs

`mkcert "*.<domain>"`
Wildcard certificate

`mkcert -cert-file <crt> -key-file <key> <name>`
Set output file names

`mkcert -ecdsa <name>`
Use an ECDSA key

`mkcert -pkcs12 <name>`
Also produce a .p12 bundle

`mkcert -client <name>`
Client-authentication cert

TRUST ELSEWHERE

`CAROOT=<dir> mkcert -install`
Install a copied CA on another host

`NODE_EXTRA_CA_CERTS="$(mkcert -CAROOT)/rootCA.pem"`
Make Node.js trust the CA

`$(mkcert -CAROOT)/rootCA.pem`
Root cert to import on phones