## Intermediate CA configuration file

View this file as plain text.

```
# OpenSSL intermediate CA configuration file.
# Copy to `/root/ca/intermediate/openssl.cnf`.
[ ca ]
# `man ca`
default ca = CA default
[ CA_default ]
# Directory and file locations.
dir
      = /root/ca/intermediate
certs = $dir/certs
crl_dir = $dir/crl
new_certs_dir = $dir/newcerts
# The root key and root certificate.
private_key = $dir/private/intermediate.key.pem
certificate = $dir/certs/intermediate.cert.pem
```

```
# For certificate revocation lists.
crlnumber
                 = $dir/crlnumber
crl
                 = $dir/crl/intermediate.crl.pem
crl extensions = crl ext
default_crl_days = 30
# SHA-1 is deprecated, so use SHA-2 instead.
default_md
                 = sha256
name_opt
                 = ca_default
                 = ca_default
cert_opt
default_days
                 = 375
preserve
                 = no
policy
                 = policy_loose
[ policy_strict ]
# The root CA should only sign intermediate certificates that match.
# See the POLICY FORMAT section of `man ca`.
countryName
                       = match
stateOrProvinceName
                       = match
organizationName
                       = match
organizationalUnitName = optional
                       = supplied
commonName
                       = optional
emailAddress
[ policy_loose ]
# Allow the intermediate CA to sign a more diverse range of certificates.
# See the POLICY FORMAT section of the `ca` man page.
                       = optional
countryName
stateOrProvinceName
                       = optional
localityName
                       = optional
organizationName
                       = optional
organizationalUnitName = optional
                       = supplied
commonName
emailAddress
                        = optional
[req]
```

```
# Options for the `req` tool (`man req`).
                   = 2048
default bits
distinguished_name = req_distinguished_name
string_mask
                   = utf8only
# SHA-1 is deprecated, so use SHA-2 instead.
default md
                   = sha256
# Extension to add when the -x509 option is used.
x509_extensions
                   = v3_ca
[ req_distinguished_name ]
# See <https://en.wikipedia.org/wiki/Certificate_signing_request>.
                              = Country Name (2 letter code)
countryName
stateOrProvinceName
                              = State or Province Name
localityName
                              = Locality Name
0.organizationName
                              = Organization Name
organizationalUnitName
                              = Organizational Unit Name
commonName
                               = Common Name
emailAddress
                               = Email Address
# Optionally, specify some defaults.
countryName_default
                              = GB
stateOrProvinceName_default = England
localityName_default
organizationalUnitName_default =
emailAddress_default
[ v3_ca ]
# Extensions for a typical CA (`man x509v3_config`).
subjectKeyIdentifier = hash
authorityKeyIdentifier = keyid:always,issuer
basicConstraints = critical, CA:true
keyUsage = critical, digitalSignature, cRLSign, keyCertSign
[ v3_intermediate_ca ]
```

```
# Extensions for a typical intermediate CA (`man x509v3_config`).
subjectKeyIdentifier = hash
authorityKeyIdentifier = keyid:always,issuer
basicConstraints = critical, CA:true, pathlen:0
keyUsage = critical, digitalSignature, cRLSign, keyCertSign
[ usr_cert ]
# Extensions for client certificates (`man x509v3_config`).
basicConstraints = CA:FALSE
nsCertType = client, email
nsComment = "OpenSSL Generated Client Certificate"
subjectKeyIdentifier = hash
authorityKeyIdentifier = keyid,issuer
keyUsage = critical, nonRepudiation, digitalSignature, keyEncipherment
extendedKeyUsage = clientAuth, emailProtection
[ server_cert ]
# Extensions for server certificates (`man x509v3_config`).
basicConstraints = CA:FALSE
nsCertType = server
nsComment = "OpenSSL Generated Server Certificate"
subjectKeyIdentifier = hash
authorityKeyIdentifier = keyid,issuer:always
keyUsage = critical, digitalSignature, keyEncipherment
extendedKeyUsage = serverAuth
[ crl_ext ]
# Extension for CRLs (`man x509v3_config`).
authorityKeyIdentifier=keyid:always
[ ocsp ]
# Extension for OCSP signing certificates (`man ocsp`).
basicConstraints = CA:FALSE
subjectKeyIdentifier = hash
authorityKeyIdentifier = keyid,issuer
keyUsage = critical, digitalSignature
extendedKeyUsage = critical, OCSPSigning
```

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