## 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.
air = /root/ca/intermediate
certs = $\frac{1}{2} \frac{1}{2} 
crl_dir
                                                        = $dir/crl
new_certs_dir = $dir/newcerts
database = $dir/index.txt
serial = $dir/serial
RANDFILE
                                                        = $dir/private/.rand
# 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
cert_opt
                                                   = ca_default
```

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```
default_days
                = 375
preserve
                 = no
policy
                = policy_loose
[ policy_strict ]
# The root CA should only sign intermediate certificates that ma
# See the POLICY FORMAT section of `man ca`.
countryName
                       = match
stateOrProvinceName
                       = match
organizationName
                       = match
organizationalUnitName = optional
commonName
                       = supplied
emailAddress
                       = optional
[ policy_loose ]
# Allow the intermediate CA to sign a more diverse range of cert
# See the POLICY FORMAT section of the `ca` man page.
countryName
                       = optional
                     = optional
stateOrProvinceName
localityName
                       = optional
organizationName
                       = optional
organizationalUnitName = optional
commonName
                       = supplied
emailAddress
                       = optional
[ req ]
# Options for the `req` tool (`man req`).
default_bits = 2048
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
countryName
                               = Country Name (2 letter code)
                               = State or Province Name
stateOrProvinceName
localityName
                               = Locality Name
```

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```
= Organization Name
0.organizationName
organizationalUnitName
                                = Organizational Unit Name
commonName
                                = Common Name
                                = Email Address
emailAddress
# Optionally, specify some defaults.
countryName_default
                                = GB
stateOrProvinceName_default
                                = England
localityName_default
0.organizationName_default
                              = Alice Ltd
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, keyEnciphe
extendedKeyUsage = clientAuth, emailProtection
[ server_cert ]
# Extensions for server certificates (`man x509v3_config`).
basicConstraints = CA:FALSE
nsCertType = server
nsComment = "OpenSSL Generated Server Certificate"
```

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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
```

Comments 🗪

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