

Server-Konfiguration

-verify-x509-name name type Accept connections only if a host's X.509 name is equal to **name**. The remote host must also pass all other tests of verification.

Which X.509 name is compared to **name** depends on the setting of type. **type** can be "subject" to match the complete subject DN (default), "name" to match a subject RDN or "name-prefix" to match a subject RDN prefix. Which RDN is verified as name depends on the **-x509-username-field** option. But it defaults to the common name (CN), e.g. a certificate with a subject DN "C=KG, ST=NA, L=Bishkek, CN=Server-1" would be matched by:

-verify-x509-name 'C=KG, ST=NA, L=Bishkek, CN=Server-1' and **-verify-x509-name Server-1 name** or you could use **-verify-x509-name Server- name-prefix** if you want a client to only accept connections to "Server-1", "Server-2", etc.

-verify-x509-name is a useful replacement for the **-tls-verify** option to verify the remote host, because **-verify-x509-name** works in a **-chroot** environment without any dependencies.

Using a name prefix is a useful alternative to managing a CRL (Certificate Revocation List) on the client, since it allows the client to refuse all certificates except for those associated with designated servers.

NOTE: Test against a name prefix only when you are using OpenVPN with a custom CA certificate that is under your control. Never use this option with type "name-prefix" when your client certificates are signed by a third party, such as a commercial web CA

Management Console

Die Management Konsole läuft auf localhost und ist über P. 7505 erreichbar.

```
root@server6:/etc/openvpn/staticclients# telnet localhost 7505
```

Beenden mit quit.

```
INFO:OpenVPN Management Interface Version 1 -- type 'help' for more info
help
Management Interface for OpenVPN 2.3.10 x86_64-pc-linux-gnu [SSL (OpenSSL)]
[LZO] [EPOLL] [PKCS11] [MH] [IPv6] built on Feb  2 2016
Commands:
auth-retry t           : Auth failure retry mode (none,interact,nointeract).
bytecount n            : Show bytes in/out, update every n secs (0=off).
echo [on|off] [N|all]  : Like log, but only show messages in echo buffer.
exit|quit              : Close management session.
forget-passwords       : Forget passwords entered so far.
help                   : Print this message.
hold [on|off|release]  : Set/show hold flag to on/off state, or
                        release current hold and start tunnel.
```

```

kill cn                : Kill the client instance(s) having common name cn.
kill IP:port           : Kill the client instance connecting from IP:port.
load-stats             : Show global server load stats.
log [on|off] [N|all]   : Turn on/off realtime log display
                        + show last N lines or 'all' for entire history.
mute [n]               : Set log mute level to n, or show level if n is
                        absent.
needok type action     : Enter confirmation for NEED-OK request of 'type',
                        where action = 'ok' or 'cancel'.
needstr type action    : Enter confirmation for NEED-STR request of 'type',
                        where action is reply string.
net                    : (Windows only) Show network info and routing table.
password type p        : Enter password p for a queried OpenVPN password.
remote type [host port] : Override remote directive, type=ACCEPT|MOD|SKIP.
proxy type [host port flags] : Enter dynamic proxy server info.
pid                    : Show process ID of the current OpenVPN process.
pkcs11-id-count        : Get number of available PKCS#11 identities.
pkcs11-id-get index    : Get PKCS#11 identity at index.
client-auth CID KID    : Authenticate client-id/key-id CID/KID (MULTILINE)
client-auth-nt CID KID : Authenticate client-id/key-id CID/KID
client-deny CID KID R [CR] : Deny auth client-id/key-id CID/KID with log
                        reason
                        text R and optional client reason text CR
client-kill CID [M]    : Kill client instance CID with message M
                        (def=RESTART)
env-filter [level]     : Set env-var filter level
client-pf CID          : Define packet filter for client CID (MULTILINE)
rsa-sig                : Enter an RSA signature in response to>RSA_SIGN
challenge              : Enter signature base64 on subsequent lines followed
                        by END
signal s               : Send signal s to daemon,
                        s = SIGHUP|SIGTERM|SIGUSR1|SIGUSR2.
state [on|off] [N|all] : Like log, but show state history.
status [n]             : Show current daemon status info using format #n.
test n                 : Produce n lines of output for testing/debugging.
username type u        : Enter username u for a queried OpenVPN username.
verb [n]               : Set log verbosity level to n, or show if n is
                        absent.
version                : Show current version number.

```

Debugging auf OpenVPN Client Seite (Linux)

```
journalctl -fu NetworkManager
```

Client IPs fest zuweisen

In die *.conf kommt eine neue Direktive:

```
client-config-dir /etc/openvpn/staticclients
```

In diesem Verzeichnis für jeden Client eine Datei `openvpndvsnets[clientname]` legen. Diese enthält die IP Adresse und die Netzmaske des Clients:

```
ifconfig-push 192.168.50.16 255.255.255.0
```

OpenVPN liest diese Datei beim Connect zusätzlich ein, aber DNS und Gateway kommen weiterhin über die zentralen push Kommandos. Ggf kann man auch ein Client-spezifisches Push anhängen, siehe dazu <http://michlstechblog.info/blog/openvpn-set-a-static-ip-address-for-a-client/>

Quelle: <https://github.com/OpenVPN/easy-rsa>

EASYRSA: CA einrichten

```
./easyrsa init-pki  
./easyrsa build-ca
```

DH erzeugen

```
./easyrsa gen-dh
```

Zertifikate erzeugen

Signing Request (CSR) erzeugen, mit **nopass** = Key **ohne** Passwort

```
./easyrsa gen-req EntityName  
./easyrsa gen-req EntityName nopass
```

danach signieren mit

```
./easyrsa sign-req server EntityName  
./easyrsa sign-req client EntityName
```

server und *client* bestimmt, ob es ein Server oder Client Zertifikat ist.

Zertifikate zurückziehen

```
./easyrsa revoke server EntityName
```

Danachmit easyrsa gen-crl die zurückgezogenen zertifikate in die crl aufnehmen.

pki/index.txt zeigt, welche Zertifikate zurückgezogen wurden.

Achtung bei OpenVPN

Common Name für das Server Zertifikat und die Client Zertifikate muss den Präfix aus der Server Config enthalten, Beispiel:

```
--verify-x509-name openvpn name-prefix
```

Easyrsa3

```
locutus:~/easy-rsa/easyrsa3 # ./easyrsa sign-req server  
openvpn.locutus.netzwissen.local
```

You are about to sign the following certificate.
Please check over the details shown below for accuracy. Note that this request
has not been cryptographically verified. Please be sure it came from a trusted
source or that you have verified the request checksum with the sender.

Request subject, to be signed as a server certificate for 3650 days:

```
subject=  
    commonName                = openvpn.locutus.netzwissen.local
```

Signieren (client oder server)

```
./easyrsa sign-req client EntityName
```

```
./easyrsa sign-req server EntityName
```

Zurückziehen

```
./easyrsa revoke EntityName
```

CRL erzeugen

```
./easyrsa gen-crl
```

Zertifikats Inhalte anzeigen

```
./easysrsa show-req EntityName  
./easysrsa show-cert EntityName
```

Key Passwörter ändern

```
./easysrsa set-rsa-pass EntityName  
./easysrsa set-ec-pass EntityName
```

Mit "nopass" wird ein Passwort entfernt

Inhalte kontrollieren

CSR

```
openssl req -in www2.netzwissen.de.csr -text -noout
```

Zertifikat

```
openssl x509 -in certificate.crt -text -noout
```

Achtung bei OpenVPN: Server prüft Präfix-String im CN, z.B: bei Devoteam:

```
CN=openvpn_dvsdnet_thomas.rother@devoteam.com
```

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