

Performance

OpenVPN is single core daemon. It is recommended to run multiple instances to get multi-core benefits. Also OpenVPN is user-level application which requires lots of switches.

<https://germanystudy.net/speed-up-your-openvpn-connection/>

Tune packet size

Test performance

```
openvpn --genkey --secret /tmp/secret
time openvpn --test-crypto --secret /tmp/secret --verb 0 --tun-mtu 20000 --
cipher aes-256-cbc
```

$(3200 / \text{execution_time_seconds}) = \text{Projected Maximum OpenVPN Performance in Mbps}$

Force OpenSSL engine

[https://en.wikipedia.org/wiki/Crypto_API_\(Linux\)](https://en.wikipedia.org/wiki/Crypto_API_(Linux))

openssl speed -evp aes-256-cbc openssl speed -evp aes-256-cbc -engine afalg

```
# Deprecated
#engine cryptodev

# Modern replacement
engine afalg
```

```
Tue Mar 17 14:18:54 2020 OpenVPN 2.4.7 x86_64-pc-linux-gnu [SSL (OpenSSL)]
[LZ0] [LZ4] [EPOLL] [PKCS11] [MH/PKTINFO] [AEAD] built on Feb 20 2019
Tue Mar 17 14:18:54 2020 library versions: OpenSSL 1.1.1d 10 Sep 2019, LZ0
2.10
Tue Mar 17 14:18:54 2020 Initializing OpenSSL support for engine 'afalg'
```

From:
<https://niziak.spox.org/wiki/> - niziak.spox.org

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Last update: **2022/02/17 15:28**

