**Quantum Safe WireGuard VPN Lib List**

**Version\_0.1**

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This document will show the list of all the third-party software/library/tools we are using in Quantum safe WireGuard VPN project. The official website, Wikipedia website entry and License detail for software will also be shown in this document.

**1. NTL (Key Exchange)**

|  |  |
| --- | --- |
| **Lib Name** | NTL |
| **Version** | 11.3.2 |
| **Official Website** | https://libntl.org/ |
| **Wikipedia Website** | https://groups.google.com/u/0/g/libntl |
| **Lib License** | Open-source software distributed under the terms of the GNU Lesser  General Public License (LGPL) version 2.1 or later. |
| **Git Link** | https://github.com/libntl/ntl |

**2.GMP (Key Exchange)**

|  |  |
| --- | --- |
| **Lib Name** | GNU Multiple Precision Arithmetic Library |
| **Version** | MP 6.2.1 |
| **Official Website** | https://gmplib.org/ |
| **Wikipedia Website** | https://en.wikipedia.org/wiki/GNU\_Multiple\_Precision\_Arithmetic\_Library |
| **Lib License** | Dual licenses:  GNU LGPL v3: https://www.gnu.org/licenses/old-licenses/gpl-2.0.html  GNU GPL v2: https://www.gnu.org/licenses/old-licenses/gpl-2.0.html |
| **Git Link** | https://github.com/ryepdx/gmp |

**3. GF2X (Key Exchange)**

|  |  |
| --- | --- |
| **Lib Name** | GF2X |
| **Version** | v1.3.0 |
| **Official Website** | https://gitlab.inria.fr/gf2x/gf2x#the-gf2x-software-library |
| **Wikipedia Website** | N.A |
| **Lib License** | GNU LESSER GENERAL PUBLIC LICENSE Version 2.1 |
| **Git Link** | <https://gitlab.inria.fr/gf2x/gf2x/> or https://github.com/nesciens/gf2x |

**4. mbedTLS (Key Exchange)**

|  |  |
| --- | --- |
| **Lib Name** | mbedTLS |
| **Version** | v2.16.4 |
| **Official Website** | https://tls.mbed.org/ |
| **Wikipedia Website** | https://en.wikipedia.org/wiki/Mbed\_TLS |
| **Lib License** | open source under the Apache 2.0 license or the GPL 2.0 license. The Apache 2.0 license enables you to use mbed TLS in both open source and closed source projects. |
| **Git Link** | https://github.com/ARMmbed/mbedtls/releases |

**5. Glog (Key Exchange)**

|  |  |
| --- | --- |
| **Lib Name** | Google Logging Library |
| **Version** | v2.16.4 |
| **Official Website** | https://github.com/google/glog |
| **Wikipedia Website** | https://github.com/google/glog/wiki |
| **Lib License** | Apache License Version 2.0, January 2004 https://github.com/istio/glog/blob/master/LICENSE |
| **Git Link** | https://github.com/google/glog |

**6. XKCP(Key Exchange)**

|  |  |
| --- | --- |
| **Lib Name** | eXtended Keccak Code Package |
| **Version** | v2.0 |
| **Official Website** | https://github.com/XKCP/XKCP |
| **Wikipedia Website** | N.A. |
| **Lib License** | BSD 3-clause license, GNU General Public License, CRYPTOGAMS license |
| **Git Link** | https://github.com/google/glog |

**7.OpenSSL(Key Exchange)**

|  |  |
| --- | --- |
| **Lib Name** | OpenSSL |
| **Version** | V3.0.0 Alpha9 |
| **Official Website** | https://www.openssl.org/ |
| **Wikipedia Website** | https://en.wikipedia.org/wiki/OpenSSL |
| **Lib License** | Apache License Version 2.0: https://www.openssl.org/source/apache-license-2.0.txt |
| **Git Link** | https://github.com/openssl/openssl |

**8.WireGuard VPN (VPN function)**

|  |  |
| --- | --- |
| **Lib Name** | WireGuard VPN |
| **Version** | v1.0.20201112 |
| **Official Website** | https://www.wireguard.com/ |
| **Wikipedia Website** | https://en.wikipedia.org/wiki/WireGuard |
| **Lib License** | Kernel under the GPLv2, as is the Linux kernel itself. Other projects are licensed under MIT, BSD, Apache 2.0, or GPL, depending on context. |
| **Git Link** | https://github.com/openssl/openssl |

**9.** **wg(8) (VPN function)**

|  |  |
| --- | --- |
| **Lib Name** | wg(8) and wg-quick(8) |
| **Version** | v1.0.20200827 |
| **Official Website** | https://git.zx2c4.com/wireguard-tools/about/ |
| **Wikipedia Website** | https://en.wikipedia.org/wiki/WireGuard |
| **Lib License** | GNU GENERAL PUBLIC LICENSE Version 2: https://git.zx2c4.com/wireguard-tools/about/COPYING |
| **Git Link** | https://git.zx2c4.com/wireguard-tools |