

# Technical requirements and installation

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## Technical requirements

- Operating systems: Debian 11+ (amd64), Ubuntu 20+ (amd64)
- Real, public IP address on server interface
- Domain name for the server
- **PUQVPNCP**
- Installed packages **wireguard wireguard-dkms wireguard-tools** (*Included in the installation process*)

## Installation

We issue all comments after logging into the SSH terminal window as the root user.

Linux kernels less than 5.6 ( $\leq 5.5$ ) did not include Wireguard as a feature in the upstream kernel code. Adding Wireguard support to these (older) kernels is possible via additional modules

### Check kernel version

```
uname -sr
```

```
Linux 5.10.0-10-amd64
```

```
apt-get update
```

```
apt-get upgrade  
reboot
```

For Debian 10: **WireGuard** is in Debian backported repo. Hence, enable backports as follows, run:

```
sudo sh -c "echo 'deb http://deb.debian.org/debian buster-backports main contrib non-free' >  
/etc/apt/sources.list.d/buster-backports.list"  
sudo apt update
```

```
apt-get install wireguard wireguard-dkms wireguard-tools -y
```

# Checking installed packages

## Checking the **wireguard** status

```
dpkg -s wireguard
```

Output should look similar to this:

```
Package: wireguard  
Status: install ok installed  
Priority: optional  
Section: net  
Installed-Size: 17  
Maintainer: Daniel Kahn Gillmor <dkg@fifthhorseman.net>  
Architecture: all  
Version: 1.0.20210223-1  
Depends: wireguard-modules (>= 0.0.20191219) | wireguard-dkms (>= 0.0.20200121-2), wireguard-  
tools (>= 1.0.20210223-1)  
Description: fast, modern, secure kernel VPN tunnel (metapackage)  
  
WireGuard is a novel VPN that runs inside the Linux Kernel and uses  
state-of-the-art cryptography (the "Noise" protocol). It aims to be  
faster, simpler, leaner, and more useful than IPSec, while avoiding  
the massive headache. It intends to be considerably more performant  
than OpenVPN. WireGuard is designed as a general purpose VPN for  
running on embedded interfaces and super computers alike, fit for  
many different circumstances. It runs over UDP.
```

.

This metapackage explicitly depends on both the kernel module and the userspace tooling.

Homepage: <https://www.wireguard.com>

# Checking installed packages

## Checking the **wireguard-dkms**

```
dpkg -s wireguard-dkms
```

Output should look similar to this:

```
Package: wireguard-dkms
Status: install ok installed
Priority: optional
Section: kernel
Installed-Size: 1724
Maintainer: Daniel Kahn Gillmor <dkg@fifthhorseman.net>
Architecture: all
Source: wireguard-linux-compat
Version: 1.0.20210219-1
Depends: dkms (>= 2.1.0.0), perl:any
Recommends: wireguard (>= 0.0.20191219), wireguard-tools (>= 0.0.20191219)
Description: fast, modern, secure kernel VPN tunnel (DKMS version)
 WireGuard is a novel VPN that runs inside the Linux Kernel and uses
 state-of-the-art cryptography (the "Noise" protocol). It aims to be
 faster, simpler, leaner, and more useful than IPSec, while avoiding
 the massive headache. It intends to be considerably more performant
 than OpenVPN. WireGuard is designed as a general purpose VPN for
 running on embedded interfaces and super computers alike, fit for
 many different circumstances. It runs over UDP.

.

This package uses DKMS to automatically build the wireguard kernel
module.

Homepage: https://www.wireguard.com
```

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# Checking installed packages

## Checking the **wireguard-tools**

```
dpkg -s wireguard-tools
```

Output should look similar to this:

```
Package: wireguard-tools
Status: install ok installed
Priority: optional
Section: net
Installed-Size: 319
Maintainer: Daniel Kahn Gillmor <dkg@fifthhorseman.net>
Architecture: amd64
Source: wireguard
Version: 1.0.20210223-1
Depends: libc6 (>= 2.14)
Recommends: nftables | iptables, wireguard-modules (>= 0.0.20171001) | wireguard-dkms (>= 0.0.20191219)
Suggests: openresolv | resolvconf
Description: fast, modern, secure kernel VPN tunnel (userland utilities)
 WireGuard is a novel VPN that runs inside the Linux Kernel and uses
 state-of-the-art cryptography (the "Noise" protocol). It aims to be
 faster, simpler, leaner, and more useful than IPSec, while avoiding
 the massive headache. It intends to be considerably more performant
 than OpenVPN. WireGuard is designed as a general purpose VPN for
 running on embedded interfaces and super computers alike, fit for
 many different circumstances. It runs over UDP.
.
 This package contains command-line tools to interact with the
 WireGuard kernel module. Currently, it provides only a single tool:
.
 wg: set and retrieve configuration of WireGuard interfaces
Homepage: https://www.wireguard.com
```

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