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Raspberry Pi VPN Setup

```
Welcome to this WireGuard road warrior installer!

This server is behind NAT. What is the public IPv4 address or hostname?
Public IPv4 address / hostname [ - - - - 20]: lumi: - - - - 

What port should WireGuard listen on?
Port [ -- 0]: 

Enter a name for the first client:
Name [client]: Lumiapple

Select a DNS server for the client:
 1) Default system resolvers
 2) Google
 3) 1.1.1.1
 4) OpenDNS
 5) Quad9
 6) Gcore
 7) AdGuard
 8) Specify custom resolvers
DNS server [1]: 

WireGuard installation is ready to begin.
Get:1 http://security.debian.org/debian-security bullseye-security InRelease [27.2 kB]
Hit:2 http://deb.debian.org/debian bullseye InRelease
Hit:3 http://deb.debian.org/debian bullseye-updates InRelease
Hit:4 http://archive.raspberrypi.org/debian bullseye InRelease
Fetched 27.2 kB in 1s (23.7 kB/s)
Reading package lists... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
qrencode is already the newest version ( - - - - 1).
The following NEW packages will be installed:
  wireguard wireguard-tools
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 1 . . . . 3 of additional disk space will be used.
Get:1 http://deb.debian.org/debian bullseye/main arm64 wireguard-tools [88.9 kB]
```

```
[lumi@raspberrypi:~ $ sudo systemctl status ddclient
● ddclient.service - Update dynamic domain name service entries
  Loaded: loaded (/etc/systemd/system/ddclient.service; enabled; vendor preset: enabled)
  Active: active (running) since Sat 202 - 01 14:43: EDT;  min ago
    Docs: man:ddclient(8)
 Process: 539 ExecStart=/sbin/ddclient -daemon $daemon_interval - /run/ddclient.pid (code=exited, status=0/SUCCESS)
 Main PID: 647 (ddclient - slee)
   Tasks: 1 (limit: 8755)
     CPU: 1.30%
    CGroup: /system.slice/ddclient.service
           └─647 ddclient - sleeping for 10 seconds

Nov 01 15:12:23 raspberrypi ddclient[1184]: FAILED: Could not get freedns update URLs from freedns.afraid.org
Nov 01 15:17:23 raspberrypi ddclient[1203]: WARNING: skipping update of lumi: from <nothing> to 
Nov 01 15:17:23 raspberrypi ddclient[1203]: WARNING: last updated <never> but last attempt on Sat Nov  1 15:12:23 2025 failed.
Nov 01 15:17:23 raspberrypi ddclient[1203]: WARNING: Wait at least 5 minutes between update attempts.
Nov 01 15:22:24 raspberrypi ddclient[1208]: FAILED: Could not get freedns update URLs from freedns.afraid.org
Nov 01 15:27:24 raspberrypi ddclient[1215]: FAILED: Could not get freedns update URLs from freedns.afraid.org
Nov 01 15:32:24 raspberrypi ddclient[1221]: WARNING: file /cache/ddclient/ddclient.cache, line 3: Invalid Value for keyword 'i'
Nov 01 15:32:24 raspberrypi ddclient[1223]: WARNING: skipping update of lumi: from <nothing> to 
Nov 01 15:32:24 raspberrypi ddclient[1223]: WARNING: last updated <never> but last attempt on Sat Nov  1 15:27:24 2025 failed.
Nov 01 15:32:24 raspberrypi ddclient[1223]: WARNING: Wait at least 5 minutes between update attempts.
lines 1-21/21 (END)
```

```
config{lumijohnsonvpn.crabdance.com}{wtime} : 30
==== cache ====
cache{lumijohnsonvpn.crabdance.com}{atime} : 1761418768 ↗
cache{lumijohnsonvpn.crabdance.com}{host} : lumijohnsonvpn.███████████
cache{lumijohnsonvpn.crabdance.com}{mtime} : 0
cache{lumijohnsonvpn.crabdance.com}{status} : noconnect
cache{lumijohnsonvpn.crabdance.com}{warned-min-error-interval} : 0
cache{lumijohnsonvpn.crabdance.com}{warned-min-interval} : 0
cache{lumijohnsonvpn.crabdance.com}{wtime} : 30
DEBUG: proxy =
DEBUG: url = checkip.amazonaws.com
DEBUG: server = checkip.amazonaws.com
CONNECT: checkip.amazonaws.com
CONNECTED: using HTTP
SENDING: GET / HTTP/1.0
SENDING: Host: checkip.amazonaws.com
SENDING: User-Agent: ddclient/3.9.1
SENDING: Connection: close
SENDING:
SENDING:
RECEIVE: HTTP/1.1 200
RECEIVE: Date: Sat, 25 Oct 2025 19:03:13 GMT
RECEIVE: Content-Type: text/plain; charset=UTF-8
RECEIVE: Content-Length: 15
RECEIVE: Connection: close
RECEIVE: Server: nginx
RECEIVE: Vary: Origin
RECEIVE: Vary: Access-Control-Request-Method
RECEIVE: Vary: Access-Control-Request-Headers
RECEIVE:
RECEIVE: 108.███████████
DEBUG: get_ip: using web, checkip.amazonaws.com reports 108.███████████
WARNING: skipping update of lumijohnsonvpn.crabdance.com from <nothing> to 108.███████████.
WARNING: last updated <never> but last attempt on Sat Oct 25 14:59:28 2025 failed.
WARNING: Wait at least 5 minutes between update attempts.
lumi@raspberrypi:/ $ sudo systemctl status ddclient
```

```
RECEIVE:
RECEIVE: 108.███████████
DEBUG: get_ip: using web, checkip.amazonaws.com reports 108.███████████
WARNING: skipping update of lumijohnsonvpn.crabdance.com from <nothing> to 108.███████████.
WARNING: last updated <never> but last attempt on Sat Oct 25 14:59:28 2025 failed.
WARNING: Wait at least 5 minutes between update attempts.
lumi@raspberrypi:/ $ sudo systemctl status ddclient
● ddclient.service - Update dynamic domain name service entries
  Loaded: loaded (/lib/systemd/system/ddclient.service; enabled; vendor preset: enabled)
  Active: inactive (dead) since Sat 2025-10-25 14:10:12 EDT; 53min ago
    Docs: man:ddclient(8)
  Process: 5585 ExecStart=/usr/sbin/ddclient -daemon $daemon_interval -syslog -pid /run/ddclient.pid (code=exited, sta>
 Main PID: 5587 (code=exited, status=0/SUCCESS)
    CPU: 252ms

Oct 25 14:07:07 raspberrypi systemd[1]: Starting Update dynamic domain name service entries...
Oct 25 14:07:07 raspberrypi systemd[1]: Started Update dynamic domain name service entries.
Oct 25 14:10:12 raspberrypi systemd[1]: Stopping Update dynamic domain name service entries...
Oct 25 14:10:12 raspberrypi systemd[1]: ddclient.service: Succeeded.
Oct 25 14:10:12 raspberrypi systemd[1]: Stopped Update dynamic domain name service entries.
lumi@raspberrypi:/ $ sudo systemctl restart ddclient
lumi@raspberrypi:/ $ sudo systemctl status ddclient
● ddclient.service - Update dynamic domain name service entries
  Loaded: loaded (/lib/systemd/system/ddclient.service; enabled; vendor preset: enabled)
  Active: active (running) since Sat 2025-10-25 15:04:36 EDT; 3s ago
    Docs: man:ddclient(8)
  Process: 5742 ExecStart=/usr/sbin/ddclient -daemon $daemon_interval -syslog -pid /run/ddclient.pid (code=exited, sta>
 Main PID: 5743 (ddclient - slee)
    Tasks: 1 (limit: 8755)
      CPU: 376ms
     CGroup: /system.slice/ddclient.service
             └─5743 ddclient - sleeping for 300 seconds

Oct 25 15:04:36 raspberrypi systemd[1]: Starting Update dynamic domain name service entries...
Oct 25 15:04:36 raspberrypi systemd[1]: Started Update dynamic domain name service entries.
lumi@raspberrypi:/ $
```

GNU nano 5.4 /etc/ddclient.conf

```
# Configuration file for ddclient generated by debconf
# /etc/ddclient.conf

daemon=5m
timeout=10
syslog=no # log update msgs to syslog
#mail=root # mail all msgs to root
#mail-failure=root # mail failed update msgs to root
pid=/var/run/ddclient.pid # record PID in file.
ssl=yes # use ssl-support. Works with
# ssl-library

use=web, web=checkip.amazonaws.com
server=freedns.afraid.org
protocol=freedns
login=[REDACTED]
password=[REDACTED]
lumi=[REDACTED]
```

^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-J To Bracket
^X Exit ^R Read File ^V Replace ^U Paste ^J Justify ^_ Go To Line M-E Redo M-6 Copy ^Q Where Was

47°F Partly sunny Search 4:45 PM 11/13/2025

Subdomains

For Members:

- [Main Menu]
- [Domains]
- [Subdomains]
- [Web Forward]
- [Dynamic DNS]
- [IPv6 Reverse]
- [Backup DNS]
- [Preferences]
- [Registry]
- [Logout]

For Everybody:

- [Home]
- [Resources]
- [About Us]
- [FAQ]
- [News]
- [DNS Stats]
- [AUP/TOS]
- [Contact]

If you could place a small text link somewhere on your site to <https://freedns.afraid.org/> named "Free DNS" it would be greatly appreciated, to help raise search engine rankings and bring more users to the site, even if you don't think your site gets much traffic it would still help! - Josh

Want to update multiple records? Check out the [Mass Mod](#) utility.

DNS Auth Trace
your.domain.com Trace
Last IP: [REDACTED] 20

User ID: [REDACTED]
Account Type: Basic
Members: 5,069,258
Premium: 5,390
Records: 13,072,264
Zones: 1,256,689

+50 subdomains +3 exchange flags Wi-Fi & DNS Just \$5 a month! Go premium today!

Now accepting Bitcoin

Tip #8
If your account has an ACL, and your IP changes and you cannot login, it will send you an email with a URL to allow your IP back in. For your security, keep your email address current.

Powered by... FreeBSD

© 2001-2025 Joshua Anderson, Free.DNS is currently processing 26,073 DNS queries per second. (5 min average).
Rendered in 0.002 seconds

http://192.168.1.1/#/firewall/portforward

fios[®] by verizon

Main Wireless Settings My Network Firewall Parental Controls Advanced System Monitoring

Main >

General >

Access Control >

Port Forwarding > **Port Forwarding**

IPv6 Pinholes >

Port Triggering >

DMZ Host >

Remote Administration >

Static NAT >

Security Log >

Logout >

This feature enables applications (Games, Webcams, IM & Others) by opening a tunnel between remote (Internet) computers and a specific device port inside your local area network(LAN).

Create new port forwarding rule:

Select IP from menu Application To Forward...

Add + Reset > Cancel > Advanced >>

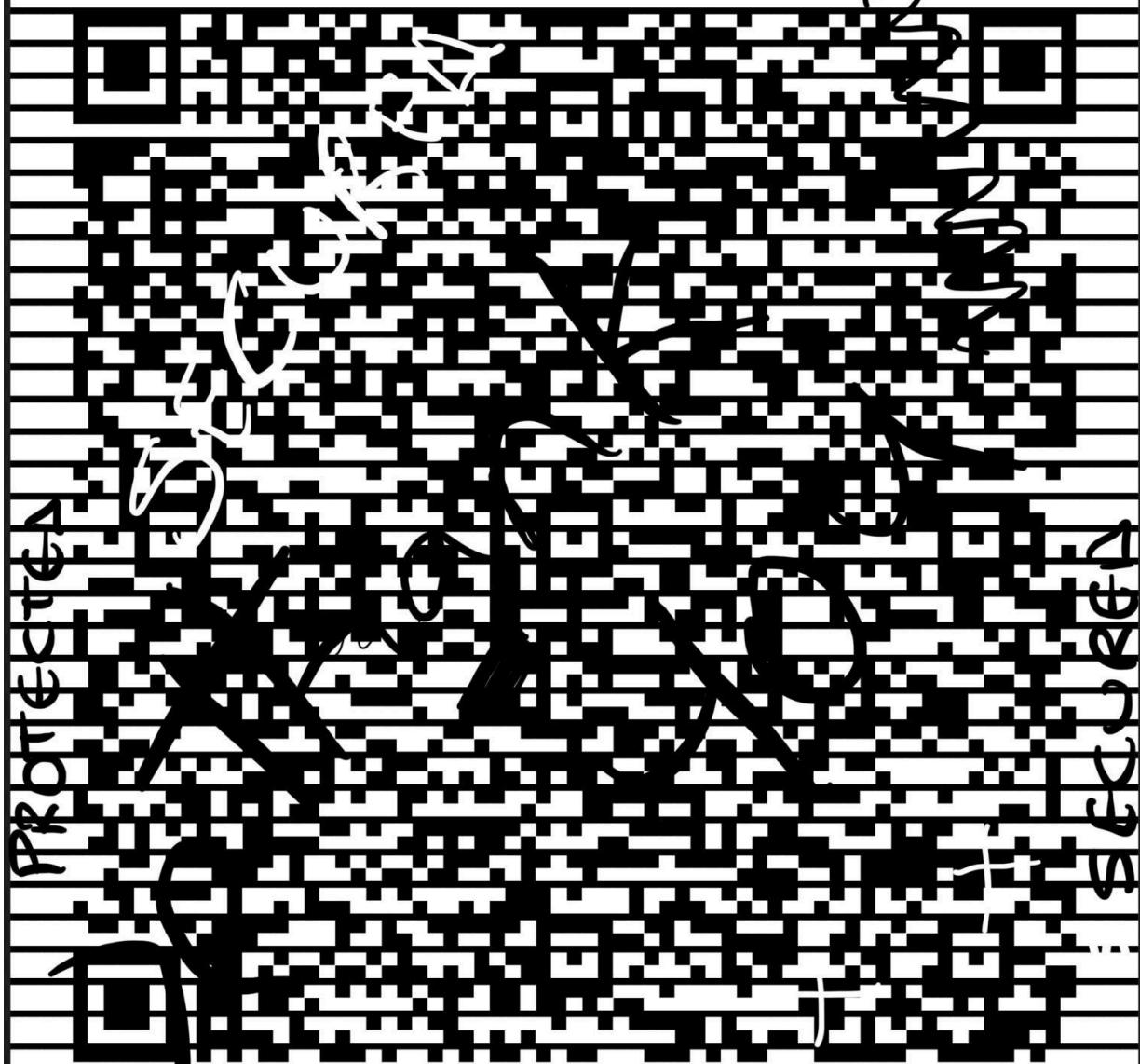
Applied rules:

Networked Computer / Device	Applications & Ports Forwarded	Status	Delete
localhost		Active	
✓ raspberrypi 192.168.1.10	Destination Ports 51000 UDP Any -> 51000	Active	<input type="checkbox"/>

Apply > Delete >

Networked Computer / Device	Applications & Ports Forwarded	Status	Delete
localhost		Active	
✓ raspberrypi 192.168.1.10	Destination Ports 51000 UDP Any -> 51000	Active	<input type="checkbox"/>

SECURED



PROTECTED

2:24

5G 

 Back

VPN

VPN Status

Connected



To connect using "lumi-apple", use the
"WireGuard" application.

DEVICE VPN



lumi-apple

WireGuard



[Add VPN Configuration...](#)

VPNs can be set up to control the routing of
certain network traffic. [About VPNs & Privacy...](#)

2:24

5G  VPN

lumi-apple

Type WireGuard

Server lumi... 

Server Address 12... 

Address 10... 

Connect Time 1:57

To configure the settings for "lumi-apple", use the "WireGuard" application.

[Delete VPN](#)