

# WireGuard

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## WireGuard info

**Request Structure:** `https://<puqvpnpv>/api/v1/wireguard/info`

**Method:** `GET`

**Cookie:** `access_hash=<access_hash>`

### Example:

```
curl \
-b
"access_hash=ae748cb82d024edffdc4cdc14251c1ef5a3bbe6fba7a670f465638b517eef49ca1c19e1e4c025aab"
\
-X GET https://dev.softkeel.com/api/v1/wireguard/info
```

### Response example:

```
{
  "error" : "",
  "msg" : {
    "wireguard" : "1.0.20210223-1",
    "wireguard-dkms" : "1.0.20210219-1",
    "wireguard-tools" : "1.0.20210223-1"
  },
  "status" : "success"
}
```

### Errors:

- Not authorized

# WireGuards servers list

**Request Structure:** `https://<puqvpnpv>/api/v1/wireguard`

**Method:** `GET`

**Cookie:** `access_hash=<access_hash>`

**Example:**

```
curl \
-b
"access_hash=ae748cb82d024edffdc4cdc14251c1ef5a3bbe6fba7a670f465638b517eef49ca1c19e1e4c025aab"
\
-X GET https://dev.softkeel.com/api/v1/wireguard
```

**Response example:**

```
{
  "error" : "",
  "msg" : {
    "Default_87" : {
      "address" : "10.0.86.1/24",
      "b_download" : "11",
      "b_upload" : "22",
      "dns_1" : "8.8.8.8",
      "dns_2" : "1.1.1.1",
      "external_ip" : "77.87.125.200",
      "ikev2" : false,
      "interface_name" : "wg87",
      "internal_traffic" : false,
      "keep_alive" : 0,
      "listen_port" : "51907",
      "name" : "Default_87",
      "private_key" : "mPzPaGF2nltQEJ+FAptKJLKG+oG3lYQKr vrn1G0Zr XU=",
      "public_key" : "u2ACzhkKxlZfI52gcAsZuNdr yum5ZgCeNY9ezqEI9kU="
    },
    "Default_97" : {
```

```
    "address" : "10.0.96.1/24",
    "b_download" : "1",
    "b_upload" : "1",
    "dns_1" : "8.8.8.8",
    "dns_2" : "1.1.1.1",
    "external_ip" : "77.87.125.200",
    "ikev2" : true,
    "interface_name" : "wg97",
    "internal_traffic" : false,
    "keep_alive" : 1,
    "listen_port" : "51917",
    "name" : "Default_97",
    "private_key" : "4IbFB7rnE6QYd0hd2dssVrNrbbhIb/MV/VyJgB/QkWk=",
    "public_key" : "9aLp9bEq+CI+yYM/lMBKEuwIG0NWlf03IcBjFioI7XQ="
  }
},
"status" : "success"
}
```

#### Errors:

- Not authorized

# WireGuard server ADD

**Request Structure:** `https://<puqvpnpv>/api/v1/wireguard`

**Cookie:** `access_hash=<access_hash>`

**Method:** `POST`

**POST data:**

**Options not required:**

```
"name" = "NAME"
"private_key" = "private_key"
"public_key" = "public_key"
"interface_name" = "wgX"
```

```
"listen_port" = "51820-65535"
"mtu" = "0-9100"
"keep_alive" = "0-2147483647"
"allowed_ips" = "CIDR format,CIDR format,CIDR format,..."
"endpoint" = "IP|domain"

"address" = "CIDR format"
"internal_traffic" = "1|0"
"external_ip" = "CIDR format"
"dns_1" = "CIDR format"
"dns_2" = "CIDR format"

"ipv6" = "1|0"
"address_ipv6" = "CIDR format"
"dns_1_ipv6" = "CIDR format"
"dns_2_ipv6" = "CIDR format"

"b_download" = "0-10000"
"b_upload" = "0-10000"

"ikev2" = "1|0"
```

**If any parameter is not specified during creation, the system will create, if possible, with a unique parameter.**

### Example:

```
curl \
-b
"access_hash=ae748cb82d024edffdc4cdc14251c1ef5a3bbe6fba7a670f465638b517eef49ca1c19e1e4c025aab"
\
-d "address=10.0.26.1/24&\
b_download=0&\
b_upload=0&\
dns_1=10.0.26.1&\
dns_2=77.87.125.200&\
external_ip=77.87.125.200&\
interface_name=wg28&\
internal_traffic=1&\
listen_port=51848&\
```

```
name=Default_28&\
keep_alive=25&\
ikev2=1&\
mtu=1320&\
allowed_ips=0. 0. 0. 0/1, 0. 0. 0. 129/1&\
private_key=2DJdzjm0tT1IfAg25V3PuuTM1biFCcv0k7wI5D4SIUk=&\
public_key=q02nrUkvxcWJ6xuMbZB1DMiCZ90LUl918bQS8PnkDTE=" \
-X POST https://dev.softkeel.com/api/v1/wireguard
```

## Response example:

```
{
  "error" : "",
  "msg" : {
    "address" : "10.0.26.1/24",
    "b_download" : "0",
    "b_upload" : "0",
    "dns_1" : "10.0.26.1",
    "dns_2" : "77.87.125.200",
    "external_ip" : "77.87.125.200",
    "ikev2" : true,
    "interface_name" : "wg28",
    "internal_traffic" : true,
    "keep_alive" : 25,
    "listen_port" : "51848",
    "name" : "Default_28",
    "private_key" : "2DJdzjm0tT1IfAg25V3PuuTM1biFCcv0k7wI5D4SIUk=",
    "public_key" : "q02nrUkvxcWJ6xuMbZB1DMiCZ90LUl918bQS8PnkDTE="
  },
  "status" : "success"
}
```

## Errors:

- Not authorized
- Wireguard server not found
- The name is already in use
- Wrong network interface name (wgXXX)
- Wrong name (only letters, numbers and '\_', '-')
- Keys are invalid

- Interface already in use
- Port already in use
- Wrong external IP format
- Wrong Port format
- IP address or subnet already in use
- Wrong DNS1 IP format
- Wrong DNS2 IP format

# WireGuard server EDIT

**Request Structure:** `https://<puqvpnpv>/api/v1/wireguard/<name>`

**Cookie:** `access_hash=<access_hash>`

**Method:** `PUT`

**PUT data:**

**Options not required:**

```
"mtu" = "0-9100"
"keep_alive" = "0-2147483647"
"allowed_ips" = "CIDR format,CIDR format,CIDR format,..."
"endpoint" = "IP|domain"

"address" = "CIDR format"
"internal_traffic" = "1|0"
"external_ip" = "CIDR format"
"dns_1" = "CIDR format"
"dns_2" = "CIDR format"

"ipv6" = "1|0"
"address_ipv6" = "CIDR format"
"dns_1_ipv6" = "CIDR format"
"dns_2_ipv6" = "CIDR format"

"b_download" = "0-10000"
"b_upload" = "0-10000"
```

```
"ikev2" = "1|0"
```

### Example:

```
curl \
-b
"access_hash=ae748cb82d024edffdc4cdc14251c1ef5a3bbe6fba7a670f465638b517eef49ca1c19e1e4c025aab"
\
-d "internal_traffic=false&\
listen_port=51333&\
keep_alive=50&\
mtu=1320&\
allowed_ips=0.0.0.0/1,0.0.0.129/1&\
ikev2=0" \
-X PUT https://dev.softkeel.com/api/v1/wireguard/Default_128
```

### Response example:

```
{
  "error" : "",
  "msg" : {
    "address" : "10.0.127.1/24",
    "b_download" : "6",
    "b_upload" : "7",
    "dns_1" : "8.8.8.8",
    "dns_2" : "1.1.1.1",
    "external_ip" : "77.87.125.200",
    "ikev2" : false,
    "interface_name" : "wg128",
    "internal_traffic" : false,
    "keep_alive" : 50,
    "listen_port" : "51333",
    "name" : "Default_128",
    "private_key" : "cAnS3fQbdvHUS+9eV05Uf+cP+gn8i4LpzXsdE7mUZ2E=",
    "public_key" : "RVNBbsEIjEkgsyXzmd5vMBIc0zzcTSC/fPscdDwzlQo="
  },
  "status" : "success"
}
```

### Errors:

- Not authorized
- Wireguard server not found
- Keys are invalid
- Interface already in use
- Port already in use
- Wrong external IP format
- Wrong Port format
- IP address or subnet already in use
- Wrong DNS1 IP format
- Wrong DNS2 IP format

# WireGuard server DELETE

**Request Structure:** `https://<puqvpnpv>/api/v1/wireguard/<name>`

**Cookie:** `access_hash=<access_hash>`

**Method:** `DELETE`

**Example:**

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbfb6d31644eee3cd7f8365e71ad94a60"
\
-X DELETE https://dev.softkeel.com/api/v1/wireguard/Default_90
```

**Response example:**

```
{
  "error" : "",
  "msg" : "success",
  "status" : "success"
}
```

**Errors:**

- Not authorized
- Wireguard server not found



- Cannot be deleted. There are active peers.

# WireGuard server DETAIL

**Request Structure:** `https://<puqvpnpv>/api/v1/wireguard/<NAME>`

**Method:** `GET`

**Cookie:** `access_hash=<access_hash>`

## Example:

```
curl \
-b
"access_hash=ae748cb82d024edffdc4cdc14251c1ef5a3bbe6fba7a670f465638b517eef49ca1c19e1e4c025aab"
\
-X GET https://dev.softkeel.com/api/v1/wireguard/Default_95
```

## Response example:

```
{
  "error" : "",
  "msg" : {
    "address" : "10.0.127.1/24",
    "b_download" : "6",
    "b_upload" : "7",
    "dns_1" : "8.8.8.8",
    "dns_2" : "1.1.1.1",
    "external_ip" : "77.87.125.200",
    "ikev2" : false,
    "interface_name" : "wg128",
    "internal_traffic" : false,
    "keep_alive" : 50,
    "listen_port" : "51333",
    "name" : "Default_128",
    "private_key" : "cAnS3fQbdvHUS+9eV05Uf+cP+gn8i4LpzXsdE7mUZ2E=",
    "public_key" : "RVNBbsEIjEkgsyXzmd5vMBIc0zzcTSC/fPscdDwzlQo="
  },
  "status" : "success"
```

```
}
```

## Errors:

```
- Not authorized  
- Wireguard server not found
```

# WireGuard server PEERS

**Request Structure:** `https://<puqvpnpv>/api/v1/wireguard/<NAME>/peers`

**Method:** `GET`

**Cookie:** `access_hash=<access_hash>`

## Example:

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbfb6d31644eee3cd7f8365e71ad94a60"
\
-X GET https://dev.softkeel.com/api/v1/wireguard/Default_125/peers
```

## Response example:

```
{
  "error" : "",
  "msg" : {
    "peer_126" : {
      "allowed_IPs" : "10.0.124.2",
      "b_download" : "8",
      "b_upload" : "6",
      "mangle" : "232",
      "name" : "peer_126",
      "password" : "K@6#2XR9$3",
      "private_key" : "AG9dc2NLVVBGT3bxg7YT0QJHTplWHcHJmzAPU00x22g=",
      "public_key" : "PasJjAGnzTxV4meACiGtx3QvJ6jzvPugs4nBdzKUcSU=",
      "status" : "enable",
      "username" : "user_127",
```

```
    "wg_name" : "Default_125"
  },
  "peer_132" : {
    "allowed_IPs" : "10.0.124.3",
    "b_download" : "8",
    "b_upload" : "6",
    "mangle" : "238",
    "name" : "peer_132",
    "password" : "6K2W3@W4$7",
    "private_key" : "QJhk78F9ZyLmudqTlJAr4eVCSSmMgVb1NEzWFyALbW4=",
    "public_key" : "6jyITtbPNZNzRXexxIEnVBrN7hriRep3nlKhLeyqSFk=",
    "status" : "enable",
    "username" : "user_133",
    "wg_name" : "Default_125"
  }
},
"status" : "success"
}
```

#### Errors:

- Not authorized
- Wireguard server not found

# WireGuard server port forward

**Request Structure:** `https://<puqvpnpv>/api/v1/wireguard/<NAME>/port_forward`

**Method:** `GET`

**Cookie:** `access_hash=<access_hash>`

**Example:**

```
curl \
-b
"access_hash=ee34183e198f9ba40a97a475579f8561bfcbe8c6f08337362b2f9e3cf1092e2d75f18179a80a14d8"
\
-X GET https://dev.softkeel.com/api/v1/wireguard/Default_125/port_forward
```

### Response example:

```
{
  "error" : "",
  "msg" : {
    "123_tcp" : {
      "dst_port" : 123,
      "protocol" : "tcp",
      "to_peer" : "peer_126",
      "to_port" : 444
    },
    "123_udp" : {
      "dst_port" : 123,
      "protocol" : "udp",
      "to_peer" : "peer_132",
      "to_port" : 2223
    },
    "2222_tcp" : {
      "dst_port" : 2222,
      "protocol" : "tcp",
      "to_peer" : "peer_126",
      "to_port" : 22
    },
    "53_udp" : {
      "dst_port" : 53,
      "protocol" : "udp",
      "to_peer" : "peer_126",
      "to_port" : 53
    }
  },
  "status" : "success"
}
```

## Errors:

- Not authorized
- Wireguard server not found

# WireGuard port worward ADD

**Request Structure:** `https://<puqvpnp>/api/v1/port_forward`

**Cookie:** `access_hash=<access_hash>`

**Method:** `POST`

**POST data:**

**Required:**

```
"dst_port" = 1-65535
"protocol" ="tcp|udp"
"to_peer" = "name_of_peer"
"to_port" = 1-65535
```

**Example:**

```
curl \
-b
"access_hash=ee34183e198f9ba40a97a475579f8561bfcbe8c6f08337362b2f9e3cf1092e2d75f18179a80a14d8"
\
-d "dst_port=23&\
protocol=udp&\
to_peer=peer_126&\
to_port=325" \
-X POST https://dev.softkeel.com/api/v1/wireguard/Default_125/port_forwarding
```

**Response example:**

```
{
  "error" : "",
  "msg" : {
```

```
{
  "dst_port" : 23,
  "protocol" : "udp",
  "to_peer" : "peer_126",
  "to_port" : 325
},
"status" : "success"
}
```

## Errors:

```
-Not authorized
-Wireguard server not found
-Protocol must be tcp or udp
-DST port must be within 1-65535
-DST port and protocol are already enabled
-ListenPort processing error
-DstPort cannot be ListenPort
-To port must be within 1-65535
-Entered incorrect peer
```

# WireGuard port worward DELETE

**Request Structure:** `https://<puqvpnp>/api/v1/port_forward/<dst_port>/<protocol>`

**Cookie:** `access_hash=<access_hash>`

**Method:** `DELETE`

## Example:

```
curl \
-b
"access_hash=ee34183e198f9ba40a97a475579f8561bfcbe8c6f08337362b2f9e3cf1092e2d75f18179a80a14d8"
\
-X DELETE https://dev.softkeel.com/api/v1/wireguard/Default_125/port_forwarding/23/udp
```

## Response example:

```
{
```

```
"error" : "",
"msg" : "success",
"status" : "success"
}
```

## Errors:

- Not authorized
- Wireguard server not found
- There is no such port forwarding
- Incorrect protocol parameter (tcp|udp)
- Incorrect dst\_port parameter

# WireGuard server Firewall Nat Rules

**Request Structure:** `https://<puqvpnp>/api/v1/wireguard/<NAME>/firewall_nat_rules`

**Method:** `GET`

**Cookie:** `access_hash=<access_hash>`

## Example:

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbfb6d31644eee3cd7f8365e71ad94a60"
\
-X GET https://dev.softkeel.com/api/v1/wireguard/Default_125/firewall_nat_rules
```

## Response example:

```
{
  "error" : "",
  "msg" : "10.0.124.0/24 -> 0.0.0.0/0 SNAT to: 77.87.125.200 Pkt: 0 Bytes: 0\n",
  "status" : "success"
}
```

## Errors:

- Not authorized
- Wireguard server not found

# WireGuard server Firewall Filter Rules

**Request Structure:** `https://<puqvpnpv>/api/v1/wireguard/<NAME>/firewall_filter_rules`

**Method:** `GET`

**Cookie:** `access_hash=<access_hash>`

## Example:

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbfb6d31644eee3cd7f8365e71ad94a60"
\
-X GET https://dev.softkeel.com/api/v1/wireguard/Default_125/firewall_filter_rules
```

## Response example:

```
{
  "error" : "",
  "msg" : "10.0.124.0/24 -> 10.0.124.0/24 ACCEPT Pkt: 0 Bytes: 0\n",
  "status" : "success"
}
```

## Errors:

- Not authorized
- Wireguard server not found



# WireGuard server Traffic Control

**Request Structure:** `https://<puqvpnpv>/api/v1/wireguard/<NAME>/traffic_control`

**Method:** `GET`

**Cookie:** `access_hash=<access_hash>`

**Example:**

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbb6d31644eee3cd7f8365e71ad94a60"
\
-X GET https://dev.softkeel.com/api/v1/wireguard/Default_125/traffic_control
```

**Response example:**

```
{
  "error" : "",
  "msg" : "qdisc htb 1: root refcnt 2 r2q 10 default 0 direct_packets_stat 0 direct_qlen
1000\n Sent 0 bytes 0 pkt (dropped 0, overlimits 0 requeues 0) \n backlog 0b 0p requeues
0\n",
  "status" : "success"
}
```

**Errors:**

```
-Not authorized
-Wireguard server not found
```

---

# WireGuard server Dump

**Request Structure:** `https://<puqvpnpv>/api/v1/wireguard/<NAME>/dump`

**Method:** `GET`

**Cookie:** |access\_hash=<access\_hash>|

**Example:**

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbfb6d31644eee3cd7f8365e71ad94a60"
\
-X GET https://dev.softkeel.com/api/v1/wireguard/Default_125/dump
```

**Response example:**

```
{
  "error" : "",
  "msg" : {
    "port" : "51945",
    "public_key" : "Ok2/cmy13UkcrXZ0CsiXwj82uRhsX1ev+6BF8Z+8alc="
  },
  "status" : "success"
}
```

**Errors:**

```
- Not authorized
- Wireguard server not found
```

# WireGuard Get Available IPs

**Request Structure:** |https://<puqvpnpv>/api/v1/wireguard/<NAME>/available\_ips|

**Method:** |GET|

**Cookie:** |access\_hash=<access\_hash>|

**Example:**

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbfb6d31644eee3cd7f8365e71ad94a60"
```

```
\
-X GET https://dev.softkeel.com/api/v1/wireguard/Default_125/available_ips
```

### Response example:

```
{
  "error" : "",
  "msg" : [
    "10.0.124.4",
    "10.0.124.5",
    "10.0.124.6",
    "10.0.124.7",
    "10.0.124.8",
    "10.0.124.9",
    "10.0.124.10",
    "10.0.124.254"
  ],
  "status" : "success"
}
```

### Errors:

```
-Not authorized
-Wireguard server not found
```

# WireGuard Set bandwidth fo all peers

**Request Structure:** `https://<puqvpnpv>/api/v1/wireguard/<NAME>/set_bandwidth`

**Method:** `PUT`

**Cookie:** `access_hash=<access_hash>`

### Example:

```
curl \
-b
```

```
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbb6d31644eee3cd7f8365e71ad94a60"
\
-X GET https://dev.softkeel.com/api/v1/wireguard/Default_125/set_bandwidth
```

### Response example:

```
{
  "error" : "",
  "msg" : "",
  "status" : "success"
}
```

### Errors:

```
- Not authorized
- Wireguard server not found
```

---

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Created 15 November 2022 11:09:38 by Ruslan

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