

# API

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# API Access Hashs

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To manage API Access Hashs, go to the section Settings->API

The screenshot shows the PUQVPNCP dashboard with a sidebar menu on the left containing: Dashboard, VPN servers, VPN accounts, Settings (highlighted), Firewall, DNS, One-time link, System users, API, License, and About us. The main content area is titled 'API Access Hashs' and features a green success message: 'Successfully'. Below this, there is a form to add a new hash with fields for 'Name' (containing 'Name') and 'IP' (containing '0.0.0.0'), and an 'Add' button. A message states: 'Everything went well. Please save the hash. It has only been shown once.' Below this message, the 'Access hash' is displayed as 'd9803fa77664ec67f58a4beda34520b6a1f9054ee3f3529ce5cdc65a93d' with a 'Copy hash' button. A table lists existing hashes with columns: Name, IP, Created data, Last Login, and a 'Delete' button for each row.

Name	IP	Created data	Last Login	
test2	1.1.1.1	2022-11-18T10:38:37+01:00		Delete
TEST	79.184.10.59	2022-11-15T15:23:05+01:00	2022-11-17T09:36:57+01:00	Delete
piotr2	79.184.10.59	2022-11-17T14:26:40+01:00	2022-11-17T14:42:08+01:00	Delete
Piotr	79.184.10.59	2022-11-16T14:23:48+01:00		Delete

You can view/create/delete API Access Hashs.

Accept the fact that once the Access Hashs API is created, it will only be shown once.  
Each API Access Hash only works from a specific IP address.

To authorize the API, API Access Hashs must be passed in the http header as the value of the "access\_hash" parameter in Cookies.

**API Root Link:** [https://<Your\\_server>/api/v1/](https://<Your_server>/api/v1/)

Application methods:

- **GET** - To get information about an object
- **POST** - Creating a new object
- **PUT** - Edit an existing object
- **DELETE** - Delete an existing object

**The data is sent to the server using the POST method.**

**Response from the server in json format**

**Each response from the server will have the same structure.**

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

- **STATUS:** if the result is successful then it will be "**SUCCESS**", If the result is not successful it will be "**ERROR**"
- **MSG:** Here are the results of a successful request
- **ERROR:** In case of an error, the error text will appear here.

Here is an example using curl

```
curl \
-b
"access_hash=7effe99173b87e9cdebdab66d6fb23c9b244af250cb09b5dd36d8f80d14a8510b2d00bcba7290252"
\
-X GET https://dev.softkeel.com/api/v1/system/status
```

**Response example:**

```
{
  "error" : "",
  "msg" : {
    "count_accounts" : 550,
    "count_accounts_available" : 550,
    "count_wireguard" : 100,
    "license" : "2023-11-13T18:38:43+01:00",
    "license_valid" : true,
    "status" : "Loading (Wireguard delete old interfaces)",
    "version" : "1.0"
  },
  "status" : "success"
}
```

# System

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## System status

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

**Method:** `GET`

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

### Example:

```
curl \
-b
"access_hash=7effe99173b87e9cdebdab66d6fb23c9b244af250cb09b5dd36d8f80d14a8510b2d00bcba7290252"
\
-X GET https://dev.softkeel.com/api/v1/system/status
```

### Response example:

```
{
  "error" : "",
  "msg" : {
    "count_accounts" : 550,
    "count_accounts_available" : 550,
    "count_wireguard" : 100,
    "license" : "2023-11-13T18:38:43+01:00",
    "license_valid" : true,
    "status" : "Loading (Wireguard delete old interfaces)",
    "version" : "1.0"
  },
  "status" : "success"
}
```

## Errors:

- Not authorized

# System info

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

**Method:** `GET`

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

## Example:

```
curl \
-b
"access_hash=7effe99173b87e9cdebdab66d6fb23c9b244af250cb09b5dd36d8f80d14a8510b2d00bcba7290252"
\
-X GET https://dev.softkeel.com/api/v1/system/info
```

## Response example:

```
{
  "error" : "",
  "msg" : {
    "cpu_model" : "Common KVM processor",
    "cpu_threads" : "4",
    "cpu_used_load1" : "0.69",
    "cpu_used_load15" : "0.20",
    "cpu_used_load5" : "0.28",
    "hostname" : "dev.softkeel.com",
    "memory_free" : "218",
    "memory_total" : "7956",
    "memory_used" : "7737",
    "memory_used_percent" : "97",
    "os_architecture" : "amd64",
    "os_name" : "Debian GNU/Linux 11 (bullseye)",
    "timezone" : "Europe/Warsaw"
  },
}
```

```
"status" : "success"
}
```

#### Errors:

- Not authorized

# System reload

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

**Method:** `PUT`

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

#### Example:

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbb6d31644eee3cd7f8365e71ad94a60"
\
-X PUT https://dev.softkeel.com/api/v1/system/reload
```

#### Response example:

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

#### Errors:

- Not authorized  
- PUQVPNCP status not OK



# 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://<puqvpnp>/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://<puqvpnpv>/api/v1/wireguard/<NAME>/firewall_nat_rules`

**Method:** `GET`

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

## Example:

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbb6d31644eee3cd7f8365e71ad94a60"
\
-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
```

# Accounts

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## Accounts LIST

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

**Method:** `GET`

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

**Example:**

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

**Response example:**

```
{
  "error" : "",
  "msg" : [
    {
      "allowed_IPs" : "10.0.110.4",
      "b_download" : "12",
      "b_upload" : "12",
      "mangle" : "322",
      "name" : "ruslan_dom_pc",
      "password" : "FE*37#L2WC",
      "private_key" : "UN75r5fizeA5jaCAzF7/n0TTynu67ngsm4jxfiHaHGI=",
      "public_key" : "sdxzHEB0dgm9ZzRn2tw2bzdnu1v7mUp1plpAU+craSo=",
      "status" : "enable",
      "username" : "user_217",
```

```
    "wg_name" : "77_87_125_209"
  },
  {
    "allowed_IPs" : "10.0.110.3",
    "b_download" : "12",
    "b_upload" : "12",
    "mangle" : "286",
    "name" : "ruslan_pc",
    "password" : "78gYA%!9X",
    "private_key" : "G0LitV1C3WT6Pn2rNS8Qtg0LRMiJ385DY0DcfnrRbXY=",
    "public_key" : "VeQE3cIzmo58otUUzpfkEDWqk1jsco09KRAKNtIW1QY=",
    "status" : "enable",
    "username" : "user_181",
    "wg_name" : "77_87_125_209"
  },
  {
    "allowed_IPs" : "10.0.110.17",
    "b_download" : "12",
    "b_upload" : "12",
    "mangle" : "131",
    "name" : "ruslan_telefon",
    "password" : "jvPdmqqTmRV9",
    "private_key" : "MEZAzrlpzqNJCT8k9JWLkBL2+TPe/LZQp3RAWEqffko=",
    "public_key" : "GA2IQFgC+SVYwoIetUNQPSR1ytiet4xxXXAJ+P+IlUY=",
    "status" : "enable",
    "username" : "user_32",
    "wg_name" : "77_87_125_209"
  }
],
"status" : "success"
}
```

#### Errors:

- Not authorized

## Account DETAIL

**Request Structure:** |https://<puqvpnp>/api/v1/account/<NAME>|

**Method:** |GET|

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

### Example:

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbfb6d31644eee3cd7f8365e71ad94a60"
\
-X GET https://dev.softkeel.com/api/v1/account/peer_10
```

### Response example:

```
{
  "error" : "",
  "msg" : {
    "allowed_IPs" : "10.0.105.18",
    "b_download" : "20",
    "b_upload" : "20",
    "mangle" : "109",
    "name" : "peer_10",
    "password" : "dH4%%2M2%B",
    "private_key" : "GNuP0siryMimPSuF7Hnmw0D7gY7FXzoY6IgUmt1uuXc=",
    "public_key" : "7C5u5vZk051iA5W2zfbxjlZDgAdm7HdRFRgarI8nBw4=",
    "status" : "enable",
    "username" : "user_10",
    "wg_name" : "Default_106"
  },
  "status" : "success"
}
```

### Errors:

```
- Not authorized
- Account not found
```

# Account ADD

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

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

**Method:** `POST`

**POST data:**

**Required:**

```
"wg_name" = "WG_NAME"
"allowed_IPs" = "CIDR format"
```

**Not required:**

```
"name" = "NAME"
"status" = "enable|disable"
"username" = "USERNAME"
"password" = "PASSWORD"

"allowed_IPs" = "CIDR format"
"allowed_IPs_ipv6" = "CIDR format"

"private_key" = "private_key"
"public_key" = "public_key"
"b_download" = "0-10000"
"b_upload" = "0-10000"

"wg_name" = Name of WireGuard
```

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

**Example:**

```
curl \
-b
```

```
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbfb6d31644eee3cd7f8365e71ad94a60"
\
-d "wg_name=77_87_125_209&\
allowed_IPs=10.0.110.52&\
b_download=100&\
b_upload=100&\
name=NAME111&\
password=PASSWORD&\
status=disable&\
username=USERNAME111" \
-X POST https://dev.softkeel.com/api/v1/account
```

### Response example:

```
{
  "error" : "",
  "msg" : {
    "allowed_IPs" : "10.0.110.52",
    "b_download" : "12",
    "b_upload" : "12",
    "mangle" : "100",
    "name" : "NAME111",
    "password" : "PASSWORD",
    "private_key" : "kC8n0NGFxwqvWIfI8xJg2ZzRtp950ltC4ugPHlPxsm0=",
    "public_key" : "p3i2VHZRHwV3uk+Yo4oKoeQ6gLF+jF33P+pnKai3iE=",
    "status" : "disable",
    "username" : "USERNAME111",
    "wg_name" : "77_87_125_209"
  },
  "status" : "success"
}
```

### Errors:

- Not authorized
- Account not found
- VPN account limit exceeded
- Wireguard server not valid
- Wrong name (only letters, numbers and '\_', '-')
- The name is already in use

- The username is already in use
- Wrong Username (only letters, numbers and '\_', '-')
- Wireguard server not valid
- Wrong IP format
- IP address already in use
- The IP address is not within the range of the wireguard server
- Keys are invalid

# Account EDIT

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

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

**Method:** `PUT`

**PUT data:**

**Not required:**

```
"status" = "enable|disable"
"password" = "PASSWORD"

"allowed_IPs" = "CIDR format"
"allowed_IPs_ipv6" = "CIDR format"

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

**Example:**

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbfb6d31644eee3cd7f8365e71ad94a60"
\
-d "allowed_IPs=10.0.110.60&\
b_download=11&\
b_upload=11&\
password=PASSWORD111122223333&\
```

```
status=enable" \  
-X PUT https://dev.softkeel.com/api/v1/account/NAME111
```

### Response example:

```
{  
  "error" : "",  
  "msg" : {  
    "allowed_IPs" : "10.0.110.60",  
    "b_download" : "11",  
    "b_upload" : "11",  
    "mangle" : "100",  
    "name" : "NAME111",  
    "password" : "PASSWORD111122223333",  
    "private_key" : "kC8n0NGFwqvwIfI8xJg2ZzRtp950ltC4ugPHlPxsm0=",  
    "public_key" : "p3i2VHZRHwVk3uk+Yo4oKoeQ6gLF+jF33P+pnKai3iE=",  
    "status" : "enable",  
    "username" : "USERNAME111",  
    "wg_name" : "77_87_125_209"  
  },  
  "status" : "success"  
}
```

### Errors:

```
- Not authorized  
- Account not found  
- Wireguard server not valid  
- Wrong external IP format  
- IP address already in use  
- The IP address is not within the range of the wireguard server
```

# Account DELETE

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

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

**Method:** `DELETE`

**Example:**

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbfb6d31644eee3cd7f8365e71ad94a60"
\
-X DELETE https://dev.softkeel.com/api/v1/account/NAME111
```

**Response example:**

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

**Errors:**

- Not authorized
- Account not found

# Account Config Text

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

**Method:** `GET`

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

**Example:**

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbfb6d31644eee3cd7f8365e71ad94a60"
\
-X GET https://dev.softkeel.com/api/v1/account/peer_10/config_text
```

### Response example:

```
{
  "error" : "",
  "msg" : "[Interface]\tAddress = 10.0.105.18/24\n\tDNS = 8.8.8.8,1.1.1.1\n\tPrivateKey =
GNUP0siryMimPSuF7Hnmw0D7gY7FXzoY6IgUmt1uuXc=\n\t\n[Peer]\n\tAllowedIPs =
0.0.0.0/0\n\tEndpoint = 77.87.125.200:51926\n\tPublicKey =
Hkldth2Pdu/jnJ0NH4cjSlsun2pFdIUZXt0h5qaNzmA=",
  "status" : "success"
}
```

### Errors:

```
- Not authorized
- Account not found
```

# Account Config QR

**Request Structure:** `https://<puqvpnp>/api/v1/account/<NAME>/config_qr`

**Method:** `GET`

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

**Output:** `data:image/png;base64`

### Example:

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbfb6d31644eee3cd7f8365e71ad94a60"
\
-X GET https://dev.softkeel.com/api/v1/account/peer_10/config_qr
```

### Response example:

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

```
"iVBORw0KGgoAAAANSUhEUgAAAfQAAAH0AQMAAADxGE3JAAAABlBMVEX//8AAABVwtN+AAAGTUlEQVR42uydP9arMA7F5U
    "status" : "success"
}
```

```
-Not authorized
-Account not found
```

## Account IKEv2 Profile

**Request Structure:** `https://<puqvpnpv>/api/v1/account/<NAME>/ikev2_profile`

**Method:** GET

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

**Example:**

```
curl \
-b
"access_hash=4a1eaf3a9f086baa452bac3c4e92eb60e34755d23f36190f44720b9b43700c23543aabb2794eda15"
\
-X GET https://dev.softkeel.com/api/v1/account/peer_10/ikev2_profile
```

**Response example:**

```
{
  "error" : "",
  "msg" : "{\n\t\t\"uuid\": \"da7782cd-d00c-4114-9250-6c798585a441\", \n\t\t\"name\": \"dev.softkeel.com\", \n\t\t\"type\": \"ikev2-eap\", \n\t\t\"remote\": {\n\t\t\t\"addr\": \"dev.softkeel.com\", \n\t\t\t\"id\": \"dev.softkeel.com\", \n\t\t\t\"cert\": \"-----BEGIN CERTIFICATE-----\n\rMIIFfDCCA2SgAwIBAgIIMYZL3xAvgfwwDQYJKoZIhvcNAQEMBQAwXDEQMA4GA1UE\rAxMHUFVRIFZQTjEXMBUGA1UEChM\nEND CERTIFICATE-----\r\"\n\t\t\t}, \n\t\t\t\"local\": {\n\t\t\t\t\"eap_id\": \"user_104\"\n\t\t\t}\n\t\t}",
  "status" : "success"
}
```

## Errors:

- Not authorized
- Account not found

# Account One-time link

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

**Method:** `GET`

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

**Output:** url

## Example:

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbfb6d31644eee3cd7f8365e71ad94a60"
\
-X GET https://dev.softkeel.com/api/v1/account/peer_10/otl
```

## Response example:

```
{
  "error" : "",
  "msg" :
  "https://dev.softkeel.com/otl/941baf43c2fd01e87e98db922c7d4aeb81ed27e1e88d6f3204c99dfae2f622b24.",
  "status" : "success"
}
```

## Errors:

- Not authorized
- Account not found

# Account Firewall mangle rules

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

**Method:** `GET`

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

## Example:

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbb6d31644eee3cd7f8365e71ad94a60"
\
-X GET https://dev.softkeel.com/api/v1/account/peer_10/firewall_mangle_rules
```

## Response example:

```
{
  "error" : "",
  "msg" : "0.0.0.0/0 -> 10.0.105.18 MARK 0x6d Pkt: 0 Bytes: 0\n10.0.105.18 -> 0.0.0.0/0 MARK
0x6d Pkt: 0 Bytes: 0\n",
  "status" : "success"
}
```

## Errors:

```
- Not authorized
- Account not found
```

---

# Account Traffic Control

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

**Method:** `GET`

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

### Example:

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbb6d31644eee3cd7f8365e71ad94a60"
\
-X GET https://dev.softkeel.com/api/v1/account/peer_10/traffic_control
```

### Response example:

```
{
  "error" : "",
  "msg" : "ens18 --> class htb 1:109 root leaf cb97: prio 0 rate 20Mbit ceil 20Mbit burst
1600b cburst 1600b \n Sent 0 bytes 0 pkt (dropped 0, overlimits 0 requeues 0) \n backlog 0b
0p requeues 0\n\nwgl106 --> class htb 1:109 root leaf cb98: prio 0 rate 20Mbit ceil 20Mbit
burst 1600b cburst 1600b \n Sent 0 bytes 0 pkt (dropped 0, overlimits 0 requeues 0) \n
backlog 0b 0p requeues 0\n\n",
  "status" : "success"
}
```

### Errors:

```
- Not authorized
- Account not found
```

# Account Dump

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

**Method:** `GET`

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

### Example:

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbb6d31644eee3cd7f8365e71ad94a60"
\
```

```
-X GET https://dev.softkeel.com/api/v1/account/peer_10/dump
```

### Response example:

```
{
  "error" : "",
  "msg" : {
    "allowed_ips" : "10.0.105.18/32",
    "endpoint" : "(none)",
    "keepalive" : "off",
    "latest_handshake" : "0",
    "transfer_rx" : "0",
    "transfer_tx" : "0"
  },
  "status" : "success"
}
```

### Errors:

```
- Not authorized
- Account not found
```

# Account Traffic statistics

**Request Structure:** `https://<puqvpnpv>/api/v1/account/<NAME>/traffic_statistics/<YEAR>/<MONTH>`

**Method:** `GET`

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

### Example:

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbfb6d31644eee3cd7f8365e71ad94a60"
\
-X GET https://dev.softkeel.com/api/v1/account/ruslan_telefon/traffic_statistics/2022/11
```

### Response example:

```
{
  "error" : "",
  "msg" : [
    {
      "account" : "ruslan_telefon",
      "date" : "2022-11-01",
      "traffic_download" : 0,
      "traffic_upload" : 0
    },
    {
      "account" : "ruslan_telefon",
      "date" : "2022-11-02",
      "traffic_download" : 0,
      "traffic_upload" : 0
    },
    {
      "account" : "ruslan_telefon",
      "date" : "2022-11-03",
      "traffic_download" : 0,
      "traffic_upload" : 0
    },
    {
      "account" : "ruslan_telefon",
      "date" : "2022-11-04",
      "traffic_download" : 0,
      "traffic_upload" : 0
    },
    {
      "account" : "ruslan_telefon",
      "date" : "2022-11-05",
      "traffic_download" : 0,
      "traffic_upload" : 0
    },
    {
      "account" : "ruslan_telefon",
      "date" : "2022-11-06",
      "traffic_download" : 0,
      "traffic_upload" : 0
    },
    {

```

```
"account" : "ruslan_telefon",
"date" : "2022-11-07",
"traffic_download" : 0,
"traffic_upload" : 0
},
{
"account" : "ruslan_telefon",
"date" : "2022-11-08",
"traffic_download" : 0,
"traffic_upload" : 0
},
{
"account" : "ruslan_telefon",
"date" : "2022-11-09",
"traffic_download" : 0,
"traffic_upload" : 0
},
{
"account" : "ruslan_telefon",
"date" : "2022-11-10",
"traffic_download" : 1209108969,
"traffic_upload" : 375698174
},
{
"account" : "ruslan_telefon",
"date" : "2022-11-11",
"traffic_download" : 1588256401,
"traffic_upload" : 406223360
},
{
"account" : "ruslan_telefon",
"date" : "2022-11-12",
"traffic_download" : 1963382022,
"traffic_upload" : 49067202
},
{
"account" : "ruslan_telefon",
"date" : "2022-11-13",
"traffic_download" : 0,
"traffic_upload" : 0
}
```

```
},
{
  "account" : "ruslan_telefon",
  "date" : "2022-11-14",
  "traffic_download" : 178929,
  "traffic_upload" : 127102
},
{
  "account" : "ruslan_telefon",
  "date" : "2022-11-15",
  "traffic_download" : 0,
  "traffic_upload" : 0
},
{
  "account" : "ruslan_telefon",
  "date" : "2022-11-16",
  "traffic_download" : 168658637,
  "traffic_upload" : 15390640
},
{
  "account" : "ruslan_telefon",
  "date" : "2022-11-17",
  "traffic_download" : 0,
  "traffic_upload" : 0
},
{
  "account" : "ruslan_telefon",
  "date" : "2022-11-18",
  "traffic_download" : 0,
  "traffic_upload" : 0
},
{
  "account" : "ruslan_telefon",
  "date" : "2022-11-19",
  "traffic_download" : 0,
  "traffic_upload" : 0
},
{
  "account" : "ruslan_telefon",
  "date" : "2022-11-20",
```

```
    "traffic_download" : 0,
    "traffic_upload" : 0
},
{
    "account" : "ruslan_telefon",
    "date" : "2022-11-21",
    "traffic_download" : 0,
    "traffic_upload" : 0
},
{
    "account" : "ruslan_telefon",
    "date" : "2022-11-22",
    "traffic_download" : 0,
    "traffic_upload" : 0
},
{
    "account" : "ruslan_telefon",
    "date" : "2022-11-23",
    "traffic_download" : 0,
    "traffic_upload" : 0
},
{
    "account" : "ruslan_telefon",
    "date" : "2022-11-24",
    "traffic_download" : 0,
    "traffic_upload" : 0
},
{
    "account" : "ruslan_telefon",
    "date" : "2022-11-25",
    "traffic_download" : 0,
    "traffic_upload" : 0
},
{
    "account" : "ruslan_telefon",
    "date" : "2022-11-26",
    "traffic_download" : 0,
    "traffic_upload" : 0
},
{
```

```
    "account" : "ruslan_telefon",
    "date" : "2022-11-27",
    "traffic_download" : 0,
    "traffic_upload" : 0
  },
  {
    "account" : "ruslan_telefon",
    "date" : "2022-11-28",
    "traffic_download" : 0,
    "traffic_upload" : 0
  },
  {
    "account" : "ruslan_telefon",
    "date" : "2022-11-29",
    "traffic_download" : 0,
    "traffic_upload" : 0
  },
  {
    "account" : "ruslan_telefon",
    "date" : "2022-11-30",
    "traffic_download" : 0,
    "traffic_upload" : 0
  }
],
"status" : "success"
}
```

### Errors:

- Not authorized
- Account not found
- Wrong month setting
- Wrong year setting



# Firewall

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## Firewall info

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

**Method:** `GET`

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

### Example:

```
curl \
-b
"access_hash=7effe99173b87e9cdebdab66d6fb23c9b244af250cb09b5dd36d8f80d14a8510b2d00bcba7290252"
\
-X GET https://dev.softkeel.com/api/v1/firewall/info
```

### Response example:

```
{
  "error" : "",
  "msg" : {
    "ip_forward" : "yes",
    "iproute2" : "5.10.0-4",
    "iptables" : "1.8.7-1"
  },
  "status" : "success"
}
```

### Errors:

```
-Not authorized
```

---

# Firewall conf

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

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

**Method:** `GET`

## Example:

```
curl \  
-b \  
"access_hash=7effe99173b87e9cdebdab66d6fb23c9b244af250cb09b5dd36d8f80d14a8510b2d00bcba7290252" \  
\   
-X GET https://dev.softkeel.com/api/v1/firewall/conf
```

## Response example:

```
{  
  "error" : "",  
  "msg" : {  
    "internal_traffic" : false,  
    "ip_forward" : false,  
    "policy_forward" : "ACCEPT",  
    "policy_input" : "ACCEPT",  
    "policy_output" : "ACCEPT"  
  },  
  "status" : "success"  
}
```

## Errors:

```
- Not authorized
```

---

# Firewall change conf

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

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

**Method:** `PUT`

**PUT data:**

```
"internal_traffic"  = false| true
"ip_forward"       = false| true
"policy_forward"   = "ACCEPT"| "DROP"
"policy_input"     = "ACCEPT"| "DROP"
"policy_output"    = "ACCEPT"| "DROP"
```

**Example:**

```
curl \
-b
"access_hash=7effe99173b87e9cdebdab66d6fb23c9b244af250cb09b5dd36d8f80d14a8510b2d00bcba7290252"
\
-d
"ip_forward=1&internal_traffic=1&policy_forward=ACCEPT&policy_input=ACCEPT&policy_output=ACCEPT"
\
-X PUT https://dev.softkeel.com/api/v1/firewall/conf
```

**Response example:**

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

**Errors:**

```
- Wrong parameter: INPUT policy, should be: ACCEPT or DROP
- Wrong parameter: FORWARD policy, should be: ACCEPT or DROP
```

- Wrong parameter: OUTPUT policy, should be: ACCEPT or DROP

# Firewall rules FILTER

**Request Structure:** `https://<puqvpnp>/api/v1/firewall/rules/filter`

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

**Method:** `GET`

## Example:

```
curl \
-b
"access_hash=7effe99173b87e9cdebdab66d6fb23c9b244af250cb09b5dd36d8f80d14a8510b2d00bcba7290252"
\
-X GET https://dev.softkeel.com/api/v1/firewall/rules/filter
```

## Response example:

```
{
  "error" : "",
  "msg" : [
    {
      "action" : "ACCEPT",
      "chain" : "INPUT",
      "d_ip" : "0.0.0.0/0",
      "d_port" : "8098",
      "name" : "system_PUQVPNCP",
      "protocol" : "TCP",
      "s_ip" : "0.0.0.0/0",
      "s_port" : "0"
    },
    {
      "action" : "DROP",
      "chain" : "INPUT",
      "d_ip" : "0.0.0.0/0",
      "d_port" : "23",
      "name" : "TEST",
```

```
    "protocol" : "TCP",
    "s_ip" : "0.0.0.0/0",
    "s_port" : "0"
  },
],
"status" : "success"
}
```

## Errors:

-Not authorized

# Firewall FILTER add rule

If add at the top of the list

**Request Structure:** `https://<puqvpnpv>/api/v1/firewall/rules/filter/top`

If added at the end of the list

**Request Structure:** `https://<puqvpnpv>/api/v1/firewall/rules/filter/end`

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

**Method:** `|POST|`

**POST data:**

```
"name" = "NAME"
"action" = "ACCEPT"| "DROP"
"chain" = "INPUT"|
"d_ip" = "CIDR format"
"d_port" = "0-65535"
"protocol" = "TCP"| "UDP"| "ICMP"| "ANY"
"s_ip" = "CIDR format"
"s_port" = "0-65535"
```

**Example:**

```
curl \
```

```
- b
"access_hash=7effe99173b87e9cdebdab66d6fb23c9b244af250cb09b5dd36d8f80d14a8510b2d00bcba7290252"
\
-d "action=ACCEPT&\
chain=INPUT&\
d_ip=0. 0. 0. 0/0&\
d_port=22&\
name=TEST_SSH_OPEN&\
protocol=TCP&\
s_ip=0. 0. 0. 0/0&\
s_port=0" \
-X POST https://dev.softkeel.com/api/v1/firewall/rules/filter/top
```

### Response example:

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

### Errors:

```
- Wrong rule name. Must be letters and numbers only
- A rule with the same name already exists
- Not correct Chain
- Destination IP must be in CIDR format
- Source IP must be in CIDR format
```

# Firewall FILTER delete rule

If add at the top of the list

**Request Structure:** `https://<puqvpnpv>/api/v1/firewall/rules/filter/<rule_name>`

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

**Method:** `|DELETE|`

### Example:

```
curl \
-b
"access_hash=7effe99173b87e9cdebdab66d6fb23c9b244af250cb09b5dd36d8f80d14a8510b2d00bcba7290252"
\
-X DELETE https://dev.softkeel.com/api/v1/firewall/rules/filter/TEST_SSH_OPEN
```

### Response example:

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

### Errors:

```
-No rule found with given name
-You cannot delete this rule. ONLY name=system_PUQVPNCP
```

# Firewall rules NAT

**Request Structure:** `https://<puqvpnpv>/api/v1/firewall/rules/nat`

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

**Method:** `GET`

### Example:

```
curl \
-b
"access_hash=7effe99173b87e9cdebdab66d6fb23c9b244af250cb09b5dd36d8f80d14a8510b2d00bcba7290252"
\
-X GET https://dev.softkeel.com/api/v1/firewall/rules/nat
```

### Response example:

```
{
  "error" : "",
  "msg" : [
    {
      "action" : "SNAT",
      "chain" : "POSTROUTING",
      "d_ip" : "0.0.0.0/0",
      "name" : "Default_144_wg144",
      "s_ip" : "10.0.143.0/24",
      "to-source" : "77.87.125.200"
    },
    {
      "action" : "SNAT",
      "chain" : "POSTROUTING",
      "d_ip" : "0.0.0.0/0",
      "name" : "Default_153_wg153",
      "s_ip" : "10.0.152.0/24",
      "to-source" : "77.87.125.200"
    },
    {
      "action" : "SNAT",
      "chain" : "POSTROUTING",
      "d_ip" : "0.0.0.0/0",
      "name" : "Default_44_wg44",
      "s_ip" : "10.0.43.0/24",
      "to-source" : "77.87.125.200"
    },
    {
      "action" : "SNAT",
      "chain" : "POSTROUTING",
      "d_ip" : "0.0.0.0/0",
      "name" : "Default_53_wg53",
      "s_ip" : "10.0.52.0/24",
      "to-source" : "77.87.125.200"
    }
  ],
  "status" : "success"
}
```

## Errors:

- Not authorized

# Firewall rules MANGLE

**Request Structure:** `https://<puqvpnpv>/api/v1/firewall/rules/mangle`

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

**Method:** `GET`

## Example:

```
curl \
-b
"access_hash=7effe99173b87e9cdebdab66d6fb23c9b244af250cb09b5dd36d8f80d14a8510b2d00bcba7290252"
\
-X GET https://dev.softkeel.com/api/v1/firewall/rules/mangle
```

## Response example:

```
{
  "error" : "",
  "msg" : [
    {
      "action" : "MARK",
      "chain" : "FORWARD",
      "d_ip" : "0.0.0.0/0",
      "name" : "src_peer_121_user_122",
      "s_ip" : "10.0.118.3",
      "set-mark" : "227"
    },
    {
      "action" : "MARK",
      "chain" : "FORWARD",
      "d_ip" : "10.0.118.4",
      "name" : "dst_peer_122_user_123",
      "s_ip" : "0.0.0.0/0",
    }
  ]
}
```

```
    "set-mark" : "228"
  },
  {
    "action" : "MARK",
    "chain" : "FORWARD",
    "d_ip" : "0.0.0.0/0",
    "name" : "src_peer_122_user_123",
    "s_ip" : "10.0.118.4",
    "set-mark" : "228"
  }
],
"status" : "success"
}
```

### Errors:

-Not authorized

# License

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## License status

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

**Method:** `GET`

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

### Example:

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

### Response example:

```
{
  "error" : "",
  "msg" : {
    "accounts" : 500,
    "expiration_date" : "2023-11-13T18:38:43+01:00",
    "key" : "I77REA-CJ5CCX-DK33D0-US0DFR-H9IR8Y",
    "last_check" : "2022-11-16T11:11:36+01:00",
    "valid" : true
  },
  "status" : "success"
}
```

### Errors:

- The license is not active

- Not authorized

# DNS

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## DNS status

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

**Method:** `GET`

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

### Example:

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

### Response example:

```
{
  "error" : "",
  "msg" : {
    "acl" : [
      "127. 0. 0. 1",
      "10. 0. 110. 0/24",
      "10. 0. 107. 0/24",
      "10. 0. 176. 0/24",
      "10. 0. 44. 0/24",
      "10. 0. 68. 0/24",
      "10. 0. 111. 0/24",
      "10. 0. 15. 0/24",
      "10. 0. 1. 0/24",
      "10. 0. 52. 0/24",
```

```
    "10.0.85.0/24"
  ],
  "bind9" : "1:9.16.33-1~deb11u1",
  "enabled" : true,
  "forwarders_1" : "77.87.125.10",
  "forwarders_2" : "77.87.125.20",
  "max_cache_ttl" : "3600",
  "pid" : "2649459"
},
"status" : "success"
}
```

### Errors:

```
- The license is not active
- Not authorized
```

# DNS EDIT

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

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

**Method:** `PUT`

**PUT data:**

**Options not required:**

```
"enabled" = false|true
"forwarders_1" = "CIDR format"
"forwarders_2" = "CIDR format"
"max_cache_ttl" = "30-3600"
```

**Example:**

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

```
\
-d "enabled=false&\
forwarders_1=1.1.1.1&\
forwarders_2=8.8.8.8&\
max_cache_ttl=300" \
-X PUT https://dev.softkeel.com/api/v1/dns
```

### 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",
    "interface_name" : "wg128",
    "internal_traffic" : false,
    "listen_port" : "51333",
    "name" : "Default_128",
    "private_key" : "cAnS3fQbdvHUS+9eV05Uf+cP+gn8i4LpzXsdE7mUZ2E=",
    "public_key" : "RVNBbsEIjEkgsyXzmd5vMBIc0zzcTSC/fPscdDwzlQo="
  },
  "status" : "success"
}
```

### Errors:

```
-Not authorized
-Incorrect data in Forwarder1 parameters
-Incorrect data in Forwarder2 parameters
```

# System Config

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## System Config

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

**Method:** `GET`

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

### Example:

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-X GET https://dev.softkeel.com/api/v1/system/config
```

### Response example:

```
{
  "error" : "",
  "msg" : {
    "traffic_statistics_frequency" : 1,
    "traffic_statistics_history" : 1,
    "wireguard_handshake_uptime" : 180
  },
  "status" : "success"
}
```

### Errors:

-Not authorized

---

# System Config EDIT

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

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

**Method:** `PUT`

**PUT data:**

**Options not required:**

```
"traffic_statistics_frequency" = "1-1440"
"traffic_statistics_history" = "0-2147483647"
"wireguard_handshake_uptime" = "1-300"
```

**Example:**

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-d "traffic_statistics_frequency=10&\
traffic_statistics_history=5&\
wireguard_handshake_uptime=300" \
-X PUT https://dev.softkeel.com/api/v1/system/config
```

**Response example:**

```
{
  "error" : "",
  "msg" : {
    "traffic_statistics_frequency" : 10,
    "traffic_statistics_history" : 5,
    "wireguard_handshake_uptime" : 300
  },
  "status" : "success"
}
```

## Errors:

- Not authorized
- Incorrect value Traffic Statistics Frequency (should be 1 to 2147483647)
- Incorrect value Traffic Statistics History (should be 0 to 2147483647)
- Incorrect value Wireguard Handshake Uptime (should be 1 to 300)

# System Config Set Default

**Request Structure:** `https://<puqvpnpv>/api/v1/system/config/default`

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

**Method:** `PUT`

**PUT data:**

**Options not required:**

---

## Example:

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-X PUT https://dev.softkeel.com/api/v1/system/config/default
```

## Response example:

```
{
  "error" : "",
  "msg" : {
    "traffic_statistics_frequency" : 5,
    "traffic_statistics_history" : 2,
    "wireguard_handshake_uptime" : 180
  },
  "status" : "success"
}
```

**Errors:**

- Not authorized

# IKEv2

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## IKEv2 info

**Request Structure:** `https://<puqvpnpv>/api/v1/ikev2/info`

**Method:** `GET`

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

### Example:

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-X GET https://dev.softkeel.com/api/v1/ikev2/info
```

### Response example:

```
{
  "error" : "",
  "msg" : {
    "pid_charon" : "1473837",
    "pid_starter" : "1473836",
    "strongswan" : "5.9.1-1+deb11u3"
  },
  "status" : "success"
}
```

### Errors:

```
-Not authorized
```

# IKEv2 Config

**Request Structure:** `https://<puqvpnpv>/api/v1/ikev2/config`

**Method:** `GET`

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

**Example:**

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-X GET https://dev.softkeel.com/api/v1/ikev2/config
```

**Response example{Server configuration example}:**

```
{
  "error" : "",
  "msg" : {
    "ca_cert" : "-----BEGIN CERTIFICATE-----
\nMIIFfDCCA2SgAwIBAgIIMYZL3xAvgfwwDQYJKoZIhvcNAQEMBQAwXDEQMA4GA1UE\nAxMHUFVRIFZQTjEXMBUGA1UEChM
END CERTIFICATE-----\n",
    "ca_common_name" : "dev.softkeel.com",
    "ca_country_name" : "",
    "ca_key" : "-----BEGIN RSA PRIVATE KEY-----
\nMIIJJwIBAAKCAgEA1nYVzVwZxckXMsCeR3AnoPgvRHubvIslIPvp4lCFnSXZJhTX\nC5mmicZauPm1L0mpclc9umNOM1L
END RSA PRIVATE KEY-----\n",
    "ca_locality" : "",
    "ca_organization" : "dev.softkeel.com",
    "ca_organizational_unit" : "",
    "ca_state_or_province_name" : "",
    "enabled" : true,
    "server_cert" : "-----BEGIN CERTIFICATE-----
\nMIIFnTCCA4WgAwIBAgIIZqs60I6InzAwDQYJKoZIhvcNAQEMBQAwXDEQMA4GA1UE\nAxMHUFVRIFZQTjEXMBUGA1UEChM
END CERTIFICATE-----\n",
    "server_key" : "-----BEGIN RSA PRIVATE KEY-----
```

```

\nMIIJJwIBAAKCAgEA23/dZ30yTzy0vMnhzDumWh/E6C1cqQXTX+PjUxw1Q2PKyrhC\nHG/Bc73rffqek9iKw/Nlqfukhqo'
END RSA PRIVATE KEY-----\n",
    "server_common_name" : "dev.softkeel.com",
    "server_country_name" : "",
    "server_domain" : "dev.softkeel.com",
    "server_ip" : "77.87.125.200",
    "server_locality" : "",
    "server_organization" : "dev.softkeel.com",
    "server_organizational_unit" : "",
    "server_state_or_province_name" : ""
},
"status" : "success"
}

```

### Response example{Example of not configuring server}:

```

{
  "error" : "",
  "msg" : {
    "ca_cert" : "",
    "ca_common_name" : "dev.softkeel.com",
    "ca_country_name" : "",
    "ca_key" : "",
    "ca_locality" : "",
    "ca_organization" : "dev.softkeel.com",
    "ca_organizational_unit" : "",
    "ca_state_or_province_name" : "",
    "enabled" : false,
    "server_cert" : "",
    "server_common_name" : "dev.softkeel.com",
    "server_country_name" : "",
    "server_domain" : "dev.softkeel.com",
    "server_ip" : "77.87.125.200",
    "server_key" : "",
    "server_locality" : "",
    "server_organization" : "dev.softkeel.com",
    "server_organizational_unit" : "",
    "server_state_or_province_name" : ""
  },
  "status" : "success"
}

```

```
}
```

## Errors:

- Not authorized

# IKEv2 Import CA certificate and key

**Request Structure:** `https://<puqvpnp>/api/v1/ikev2/import_ca_rsa`

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

**Method:** `PUT`

**PUT data:**

**Options required:**

```
"ca_cert" = ""  
"ca_key" = ""
```

## Example:

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-d "ca_cert=$( sed ' s, +, %2B, g' <<EOF
-----BEGIN CERTIFICATE-----
MIIFfDCCA2SgAwIBAgIIMYZL3xAvgfwwDQYJKoZIhvcNAQEMBQAwXDEQMA4GA1UE
AxMHUFVRIFZQTjEXMBUGA1UEChM0UFVRIHNwLiB6IG8uby4xEDA0BgNVBAsTB1BV
USBWUE4xEDA0BgNVBACjB1dG9uZS50fowXDEQMA4GA1UEAxMHUFVRIFZQTjEXMBUGA1UE
ChM0UFVRIHNwLiB6IG8uby4xEDA0BgNVBAsTB1BVUSBWUE4xEDA0BgNVBACjB1dG
cnN6YXcxXzAJBgNVBAYTALBMMIICijANBgkqhkiG9w0BAQEFAA0CAg8AMIICGKC
AgEAlnYVZVwZcxXMsCeR3AnoPgvRHubvIsIPvp4lCFnSXZJhTXC5mmicZauPm1
L0mpclc9umNOM1LxSHV4pcfYP+M1bDUYMef3iaufeQ03cU4R4UrJLsCC/WGww1o
```

IqYDCxUtB0ePxZHNsBXDxu2/F0eVj X5SiPnCDxyY/tKsouJnX+bTGB5r0byeon6h  
A7V9mVrKJfKrIXhzKPtLe28nFa9c6aRu+R0q3KotcradPSdzzzzFhCSCXChbI7+y  
dfnSiJ3rARREHljMpv0rWM/9NyCPHUIJaR+XJ8JQMDdQxMP8oN0fKB8y66foLiFD  
oXWlvtGIFPkEnHbX2T7N//ly5xkA97upoQvo7wxtWV4x0Ie1nfLesSZVCl/UL50d  
+LVf6NbguDda2HE15AuX6Mjn0tX18Yn6VQNUo8R5rr+3dpuZnUYVzfdbnaVmmSuc  
ISsQEUTZMzwTzCffpUwPzp8MMWB2K1pSOMTtC7o7cEjnv2BV8IuKhgK1V66lRapx  
cCWf/L1bHRasaqr5JCebGIVZNs d2qYJyuD6p0xP+VVo3PoboqusASKvbQ9PcoMdx  
m8GJHzNnJsuUQhapP2PpDpdht58p0xstWyPnANDsfbqooFwPwAJWhHlkl7JhQWuY  
epEWKs78B3C2LYT6UeU4nJmRYNmsucLOUj9HpSJEMZ/nPnECAwEAAaNCMEAwDwYD  
VR0TAQH/BAUwAwEB/zA0BgNVHQ8BAf8EBAMCAQYwHQYDVR00BBYEFFbCzI+j1Md8  
NjG1pCPq+ks00MhgMA0GCSqGSIb3DQEBAUAA4ICAQBpmyQRfUF/BiuF76vEcwci  
0uuibaoPcE0wQIueje84KtaEwA0a+QKX4sPGHE4Eoxv7JHEJhBfoeKABTgpIv+qF  
nWdE0+sMTowLhrcoB1VPTw50w3m0YDLG+aqcC3e7UrXoMx+MwmPM3u3/zUkp5j/f  
AsIZL4YdXBtwqmmo j13zg6URslhXhlPeqw+0iqevfpPZE1a1IgXTEY0Xnba1B5o6  
eRUCLcU04dYjv3Eg55WKKN4uPkmm0u1JiWZp8g13FBK1hss/g1qkh3ZW5nMVDjTP  
GFGrY+eHLzEgM8RRieJpU+Jq9mmezp/r0pC0EgoDILx0Uz05qm/c892D8ZZVqvKP  
TQnuHppAyYATGcPBI0HURi4ufCfiEzba0jK6KLLJMRtGZEuMgTTz77HSvfugP0/C  
+OVNxvSwcXf26AUhQHXS5wjFo6eLTwsfyi4ZegT9rT0UfwJ/x3hYCnxfGFsofgdh  
bL6jLJkygi+tjQAIJzNmmgRddDpun195Emc9yPYWQT5gz6qwy6ExhAmyfZ6fnIIr  
zWIYcS+oUh+mffeqjBHSUAPfFSl0iWfreshx+XN1oun0SiPaeA9YAb/eiKF+l/0Fl  
wX59Ea2Mr559mRB0Dg90HMRMqG5K52gYy3V3tXg2/ZZNKeXML00Vbctf+hSkdsT4  
CZwL60LmJPQCBkNr6X0fBA==

-----END CERTIFICATE-----

EOF

)

&\

ca\_key=\$(sed 's,+, %2B, g' <<EOF

-----BEGIN RSA PRIVATE KEY-----

MIIEJJwIBAAKAgEA1nYVzVwZcxkXMsCeR3AnoPgvRHubvIsLIpvp4lCFnSXZJhTX  
C5mmicZauPm1L0mpclc9umNOM1LxSHV4pcFYp+M1bDUYMef3iaufeQ03cU4R4UrJ  
LsCC/WGwvw1oIqYDCxUtB0ePxZHNsBXDxu2/F0eVj X5SiPnCDxyY/tKsouJnX+bT  
GB5r0byeon6hA7V9mVrKJfKrIXhzKPtLe28nFa9c6aRu+R0q3KotcradPSdzzzzF  
hCSCXChbI7+ydfnSiJ3rARREHljMpv0rWM/9NyCPHUIJaR+XJ8JQMDdQxMP8oN0f  
KB8y66foLiFD oXWlvtGIFPkEnHbX2T7N//ly5xkA97upoQvo7wxtWV4x0Ie1nfLe  
sSZVCl/UL50d+LVf6NbguDda2HE15AuX6Mjn0tX18Yn6VQNUo8R5rr+3dpuZnUYV  
zfdbnaVmmSucISsQEUTZMzwTzCffpUwPzp8MMWB2K1pSOMTtC7o7cEjnv2BV8IuK  
hgK1V66lRapxcCWf/L1bHRasaqr5JCebGIVZNs d2qYJyuD6p0xP+VVo3PoboqusA  
SKvbQ9PcoMdxm8GJHzNnJsuUQhapP2PpDpdht58p0xstWyPnANDsfbqooFwPwAJW  
hHlkl7JhQWuYepEWKs78B3C2LYT6UeU4nJmRYNmsucLOUj9HpSJEMZ/nPnECAwEA  
AQKCAgA806lDYcf9jReDUZaS9ICI61uct0JrC5wwSsL/aY88DywT3P1RUPcnRJce

t9Rn4SCqSYw8fUYE0JWW05qwiLiBdLpuQnDmVsCiz4afsCorfNUdbTS6ieedLkQP  
LCJJEYtZc8IdunJQuX3x3SLy4rTc347b4BTpV5i8bpH5/PYx+m17UvthEmn7Tu  
qbPJdYR2JoYHVVisWZlwGj2iUNhpEh/sNLM0+hsQE0RosNrQKYxzTu1GmYRP1zJi  
ZVCcnYrVLNUmrTTU1qLVCiFtQzCyng15Yu2AX3Fj2X0c79N8u4m/pnfbzV2H8Uut  
Kcog1VIZgRxzt11Uc3CtMV8EJyArXrVEJwXdgMo19H4LvZxK0/rlyxz8Y/zggUSy  
/Ps05YIHDR1VsRe/Q+Gd4+ttJKMZ/E+ghIQ6mTjamZwG0iH4rji5jg21pFSBZqwm  
Lp7wpeTCYkFGAXbiNYVJw4PNoW0oPGLCdaNGiP2NEk4EPI6ieo+sFFZYBaPzrGw/  
St0YlKMrkGTCh7kGhYxFsIYtPp9t5La34msoqbCqPaxNP5rT3jeLcIkKuLE0/Xao  
ehAhXYVm+iDn1Y2iIzVy0ouEd9i1XYTEJp0/aA7QdEqyR7003Y6jHMDjekEfH9AA  
WFOGKedHfzML6uQQMuDzhVGTEmtJAEKXX0aIT+G7UZh88rrvAQKCAQEA8bKB/jL3  
o451NTJj+U/YZNRrfKysuDkBPnYIHuCWhWhmjJC0cF0txHhMhv6+KAGI4PU10f0Q  
iPQSaczP2LKgN6Dz8aJDqDonJ67sUzP+y+tNGpab0vydp8PH7KWpixaVt7bqi8K4  
C0ymbR1hW6HHyujULHM9s04zE1HI6ABTcsPbpTVh1lcl91TD42t2bSVfncdZqDKp  
00iaFSuk6gpIvYMesSpsUCJrAF4m05uPTwSRVQxg4tBj80LsdWiuVlow0ZXgcGd  
76XmzMmHit0FNN8zsDfoEg/GgLkoyY+2kmU5yahyvo2lBMLs/lpWQ5xp10PpnU4d  
3KWEynuNBxjQ+QKCAQEA4yb6AwP60hLgi4mfdaCHhXc8dZs+bP2CaE5lK4XFx/IM  
IrLYNjJfPwBNQ5Mlq2p6tedF3lRuU2/GXwvY0BlY1t5G2NdPqn6K0XDDcuq0u4JN  
2MmrTYrRjye4AtfP1qcVNnilU1kus+b4nK30b9m629sWEg0kHeDDF/Bw0WLoQAK/  
Cpbuzo70R4S1zx+F0p2MvDbErmmNtPgrFKiPjRixysgwnH5jnIiK667gHvinD23Z  
u6Zi0AS2Tm+0KhWELlaCC0PAB32dpAAUoKgv8RxbytvWQjgrOkKQSTEZ5T64BVZM  
4ClIz6+8IlQCHUouF59w5z86VEPHJYu1zU+eNsv0QKCAQA91BlW6rjYuS+YjSxv  
8ZH8sS5R9WY1tjdwQAdxxqgatotN0AmICv4TPWbuPaptV38pdPDJxcF+ENnJA0DG  
oWNE98KPtJ+0IDQ1/ZRs8GckySuv0om5PDgkW3wA0Jy3e0Ti+0LIJR6pAcjNLu/h  
3e/bI1aGJzjIbp+40Hq5hqPSPvIoQBCoISEQNTnrKmlgIGhmV0HD0jp6d0cdtU15  
pWhY0PuX/K86jKNss6j6JKAZaYq4A/Og8ggU7g3pNVV/N5E3e4auJdZ+IJ7UYFVx  
G3sifFqfoJ2YSTRYQxjC4V7y7NNt+6qeLeVcTvpETjyEMgujivr1rji4eCnX5XD  
FAEZAoIBAA01aTOi4tSiHkQA9TeIbW4CalxJmpW49d4aGZDCWF5RV11hqiIIZBa1  
PPizeFP6IxLB0eTNYBfApW571QhgwZCQhHuZ2FUiR8N0UdyYdGbZU64MbN2RPKan  
sVtqhpski4XfiuEMz0AsmJsFAhbd6+LPisBR+us9cJ4TH8+rCgPY2sa179LmZaV  
VhqRmy+7Hscb5c4rLwMbYiiuL9nP42c6KYEElz/A58i9TC91Q9T+qCvMLAhaG1fg  
fwKI/pB7HRhkd4iPxnkc/zk4RcAcBGuldzQRkrMazxxCzvdtnLfxls06KNQrPFkb  
Ij/hGc8Yy9jbwU1V43dGBHHDDsg0XBECggEAN5TJ4PFR8PRE4/YlwDRWwXlEnFFr  
TRfkfvWyeDRnaQsSB9NqgF+IG0ymiGYrcmu4Ej2Ix3U0VuL+yjI4j+jxBdW+hs2H  
9z9AwVJVdPuz9XLLC/odQTEbdLtyNQcrqxm3QtJKLMBQ3hyRdY95+Yd1VnJnTCnT  
SDM5UJiDEc+Xxx0/Z7Akn8s0U30RUdA989Pmb25p5CKcrF9/Juk/5bgf0z6cDz8G  
bGKG2DwJ/09RVd0BLJWkli66LexRjMpBhksf6aAb5bImfGFJ0ki9amX3gN+TSotS  
0BRsu+9CGRwt+SP0NcxcXqs60TYu+WkAv3V23+0N8aiNli7qKJVyYvNzQQ==

-----END RSA PRIVATE KEY-----

EOF

)

```
" \"  
-X PUT https://dev.softkeel.com/api/v1/ikev2/import_ca_rsa
```

## Response example:

```
{  
  "error" : "",  
  "msg" : {  
    "ca_cert" : "-----BEGIN CERTIFICATE-----  
\\nMIIFdCCA2SgAwIBAgIIMYZL3xAvgfwWDQYJKoZIhvcNAQEMBQAwXDEQMA4GA1UE\\nAxMHUFVRIFZQTjEXMBUGA1UEChM  
END CERTIFICATE-----\\n",  
    "ca_common_name" : "dev.softkeel.com",  
    "ca_country_name" : "",  
    "ca_key" : "-----BEGIN RSA PRIVATE KEY-----  
\\nMIIJJwIBAAKCAgEAInYVzVwZxckXMsCeR3AnoPgvRHubvIslIPvp4lCFnSXZJhTX\\nC5mmicZauPm1L0mpclc9umNOM1L  
END RSA PRIVATE KEY-----\\n",  
    "ca_locality" : "",  
    "ca_organization" : "dev.softkeel.com",  
    "ca_organizational_unit" : "",  
    "ca_state_or_province_name" : "",  
    "enabled" : false,  
    "server_cert" : "",  
    "server_common_name" : "dev.softkeel.com",  
    "server_country_name" : "",  
    "server_domain" : "dev.softkeel.com",  
    "server_ip" : "77.87.125.200",  
    "server_key" : "",  
    "server_locality" : "",  
    "server_organization" : "dev.softkeel.com",  
    "server_organizational_unit" : "",  
    "server_state_or_province_name" : ""  
  },  
  "status" : "success"  
}
```

## Errors:

```
-Not authorized  
-The root certificate is already in the system  
-CaCert must be filled
```

- CaKey must be filled
- Certificate not found
- Certificate failed

# IKEv2 Generate CA certificate and key

**Request Structure:** `https://<puqvpnpv>/api/v1/ikev2/generate_ca_rsa`

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

**Method:** `PUT`

**PUT data:**

**Options required:**

```
"ca_common_name" = ""  
"ca_organization" = ""
```

**Options not required:**

```
"ca_country_name" = ""  
"ca_locality" = ""  
"ca_organization" = ""  
"ca_organizational_unit" = ""  
"ca_state_or_province_name" = ""
```

**Example:**

```
curl \  
-b  
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"  
\  
-d "ca_common_name=TEST_CN\  
ca_country_name=TEST_C\  
ca_locality=TEST_L\  
ca_organization=TEST_O
```

```
ca_organizational_unit=TEST_OU&\n
ca_state_or_province_name=TEST_S&\n
" \n
-X PUT https://dev.softkeel.com/api/v1/ikev2/generate_ca_rsa
```

## Response example:

```
{
  "error" : "",
  "msg" : {
    "ca_cert" : "-----BEGIN CERTIFICATE-----\n
MIIFlDCCA3ygAwIBAgIIP9dfvYShrW8wDQYJKoZIhvcNAQEMBQAwaDEQMA4GA1UE\n
AwwHVEVTVF9DTjEPMA0GA1UECgwv\n
END CERTIFICATE-----\n",
    "ca_common_name" : "TEST_CN",
    "ca_country_name" : "TEST_C",
    "ca_key" : "-----BEGIN RSA PRIVATE KEY-----\n
MIIJKgIBAAKCAgEA4dJvCvJ+4CDpYmVzEtWLyOpKLeegs3yCwJkWhQubGXiTl9Ks\n
nQLlrWTXYyF03FhqygEZ3V0LUgBm\n
END RSA PRIVATE KEY-----\n",
    "ca_locality" : "TEST_L",
    "ca_organization" : "TEST_O",
    "ca_organizational_unit" : "TEST_OU",
    "ca_state_or_province_name" : "TEST_S",
    "enabled" : false,
    "server_cert" : "",
    "server_common_name" : "dev.softkeel.com",
    "server_country_name" : "",
    "server_domain" : "dev.softkeel.com",
    "server_ip" : "77.87.125.200",
    "server_key" : "",
    "server_locality" : "",
    "server_organization" : "dev.softkeel.com",
    "server_organizational_unit" : "",
    "server_state_or_province_name" : ""
  },
  "status" : "success"
}
```

## Errors:

```
- Not authorized
```

- The root certificate is already in the system
- Common Name must be filled
- Organization must be filled

# IKEv2 Delete CA certificate and key

**Request Structure:** `https://<puqvpnpv>/api/v1/ikev2/delete_ca_rsa`

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

**Method:** `DELETE`

**Example:**

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-X DELETE https://dev.softkeel.com/api/v1/ikev2/delete_ca_rsa
```

**Response example:**

```
{
  "error" : "",
  "msg" : {
    "ca_cert" : "",
    "ca_common_name" : "TEST_CN",
    "ca_country_name" : "TEST_C",
    "ca_key" : "",
    "ca_locality" : "TEST_L",
    "ca_organization" : "TEST_O",
    "ca_organizational_unit" : "TEST_OU",
    "ca_state_or_province_name" : "TEST_S",
    "enabled" : false,
    "server_cert" : "",
    "server_common_name" : "dev.softkeel.com",
```

```
{
  "server_country_name" : "",
  "server_domain" : "dev.softkeel.com",
  "server_ip" : "77.87.125.200",
  "server_key" : "",
  "server_locality" : "",
  "server_organization" : "dev.softkeel.com",
  "server_organizational_unit" : "",
  "server_state_or_province_name" : ""
},
"status" : "success"
}
```

### Errors:

- Not authorized
- The ROOT certificate is not present in the system

# IKEv2 Generate SERVER certificate and key

**Request Structure:** `https://<puqvpnpv>/api/v1/ikev2/generate_server_rsa`

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

**Method:** `PUT`

**PUT data:**

**Options required:**

```
"server_domain" = ""
"server_ip" = ""
"server_common_name" = ""
"server_organization" = ""
```

**Options not required:**

```
"server_organizational_unit" = ""
```

```
"server_organization" = ""
"server_locality" = ""
"server_state_or_province_name" = ""
"server_country_name" = ""
"server_ipv6" = ""
```

### Example:

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-d "server_domain=vpn.test.test&\
server_ip=172.16.0.1&\
server_common_name=TEST_CN&\
server_organizational_unit=TEST_OU&\
server_organization=TEST_O&\
server_locality=TEST_L&\
server_state_or_province_name=TEST_S&\
server_country_name=TEST_S&\
" \
-X PUT https://dev.softkeel.com/api/v1/ikev2/generate_server_rsa
```

### Response example:

```
{
  "error" : "",
  "msg" : {
    "ca_cert" : "-----BEGIN CERTIFICATE-----
\nMIIFlDCCA3ygAwIBAgIIaQxQ0CqyX0MwDQYJKoZIhvcNAQEMBQAwaDEQMA4GA1UE\nAwwHVEVTVF9DTjEPMA0GA1UECgw
END CERTIFICATE-----\n",
    "ca_common_name" : "TEST_CN",
    "ca_country_name" : "TEST_C",
    "ca_key" : "-----BEGIN RSA PRIVATE KEY-----
\nMIIJKQIBAAKCAgEA2mAubwBj55hq/Ukk7U916waAKUGb08RdUqzDqC+HP7wpwr g\n7q8JFKyCDCLQDbDQNZxRPwEI0phI
END RSA PRIVATE KEY-----\n",
    "ca_locality" : "TEST_L",
    "ca_organization" : "TEST_O",
    "ca_organizational_unit" : "TEST_OU",
    "ca_state_or_province_name" : "TEST_S",
```

```
    "enabled" : false,
    "server_cert" : "-----BEGIN CERTIFICATE-----
\nMIIFujCCA6KgAwIBAgIIbvUBrU6ZBQUwDQYJKoZIhvcNAQEMBQAwaDEQMA4GA1UE\nAwwHVEVTVF9DTjEPMA0GA1UECgw
END CERTIFICATE-----\n",
    "server_common_name" : "TEST_CN",
    "server_country_name" : "TEST_S",
    "server_domain" : "vpn.test.test",
    "server_ip" : "172.16.0.1",
    "server_key" : "-----BEGIN RSA PRIVATE KEY-----
\nMIIJKQIBAAKCAgEA1Fw/nJ9q3W3avtdBIJP6RN0Uwsk80Km4ezzVw/ikoaLVMDwJ\nnC0Jr1R7zxYh9GGYZUj06cFtQ7Q0
END RSA PRIVATE KEY-----\n",
    "server_locality" : "TEST_L",
    "server_organization" : "TEST_O",
    "server_organizational_unit" : "TEST_OU",
    "server_state_or_province_name" : "TEST_S"
  },
  "status" : "success"
}
```

## Errors:

- Not authorized
- The root certificate is not present in the system
- Server Domain must be filled
- Server IP must be filled
- Common Name must be filled
- Organization must be filled

# IKEv2 Delete SERVER certificate and key

**Request Structure:** `https://<puqvpnpv>/api/v1/ikev2/delete_server_rsa`

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

**Method:** `DELETE`

## Example:

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-X DELETE https://dev.softkeel.com/api/v1/ikev2/delete_server_rsa
```

## Response example:

```
{
  "error" : "",
  "msg" : {
    "ca_cert" : "-----BEGIN CERTIFICATE-----
\nMIIFlDCCA3ygAwIBAgIIaQxQ0CqyX0MwDQYJKoZIhvcNAQEMBQAwaDEQMA4GA1UE\nAwwHVEVTVF9DTjEPMA0GA1UECgw
END CERTIFICATE-----\n",
    "ca_common_name" : "TEST_CN",
    "ca_country_name" : "TEST_C",
    "ca_key" : "-----BEGIN RSA PRIVATE KEY-----
\nMIIJKQIBAAKCAgEA2mAubwuBj55hq/Ukk7U916waAKUGb08RdUqzDqC+HP7wpwr g\n7q8JFKyCDCLQDbDQNZxRPwEI0phI
END RSA PRIVATE KEY-----\n",
    "ca_locality" : "TEST_L",
    "ca_organization" : "TEST_O",
    "ca_organizational_unit" : "TEST_OU",
    "ca_state_or_province_name" : "TEST_S",
    "enabled" : false,
    "server_cert" : "",
    "server_common_name" : "TEST_CN",
    "server_country_name" : "TEST_S",
    "server_domain" : "vpn.test.test",
    "server_ip" : "172.16.0.1",
    "server_key" : "",
    "server_locality" : "TEST_L",
    "server_organization" : "TEST_O",
    "server_organizational_unit" : "TEST_OU",
    "server_state_or_province_name" : "TEST_S"
  },
  "status" : "success"
}
```

## Errors:

- Not authorized
- The R00T certificate is not present in the system

# IKEv2 Enable/Disable

**Request Structure:** `https://<puqvpnp>/api/v1/ikev2/`

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

**Method:** `PUT`

**PUT data:**

**Options required:**

```
"enabled" = "0|1"
```

## Example:

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-d "enabled=1" \
-X PUT https://dev.softkeel.com/api/v1/ikev2
```

## Response example:

```
{
  "error" : "",
  "msg" : {
    "ca_cert" : "-----BEGIN CERTIFICATE-----
\nMIIFLDCCA3ygAwIBAgIIaQxQ0CqyX0MwDQYJKoZIhvcNAQEMBQAwaDEQMA4GA1UE\nAwwHVEVTVF9DTjEPMA0GA1UECgw
END CERTIFICATE-----\n",
    "ca_common_name" : "TEST_CN",
    "ca_country_name" : "TEST_C",
    "ca_key" : "-----BEGIN RSA PRIVATE KEY-----"
```

```
\nMIIJKQIBAAKCAgEA2mAubwuBj55hq/Ukk7U916waAKUGb08RdUqzDqC+HP7wpwr g\n7q8JFKyCDCLQDbDQNZxRPwEI0phi
END RSA PRIVATE KEY-----\n",
    "ca_locality" : "TEST_L",
    "ca_organization" : "TEST_O",
    "ca_organizational_unit" : "TEST_OU",
    "ca_state_or_province_name" : "TEST_S",
    "enabled" : true,
    "server_cert" : "-----BEGIN CERTIFICATE-----
\nMIIFujCCA6KgAwIBAgIIEJgkV3yqf6gwDQYJKoZIhvcNAQEMBQAwaDEQMA4GA1UE\nAwwHVEVTVF9DTjEPMA0GA1UECgw
END CERTIFICATE-----\n",
    "server_common_name" : "TEST_CN",
    "server_country_name" : "TEST_S",
    "server_domain" : "vpn.test.test",
    "server_ip" : "172.16.0.1",
    "server_key" : "-----BEGIN RSA PRIVATE KEY-----
\nMIIJKAIBAAKCAgEAoF\lmfQYPCKNSz4aihkB1URMYeC3d0+A08h+0\lU1M7rr42YR/\nYL Ya0DUnT00GPSsr /bGdahdbq58I
END RSA PRIVATE KEY-----\n",
    "server_locality" : "TEST_L",
    "server_organization" : "TEST_O",
    "server_organizational_unit" : "TEST_OU",
    "server_state_or_province_name" : "TEST_S"
  },
  "status" : "success"
}
```

## Errors:

- Not authorized
- The ROOT certificate is not present in the system
- The SERVER certificate is not present in the system

# IKEv2 Advanced settings show

**Request Structure:** `https://<puqvpnp>/api/v1/ikev2/advanced_settings`

**Method:** `GET`

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

## Example:

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-X GET https://dev.softkeel.com/api/v1/ikev2/advanced_settings
```

## Response example:

```
{
  "error" : "",
  "msg" : {
    "authby" : "pubkey",
    "charondebug_asn" : 0,
    "charondebug_cfg" : 0,
    "charondebug_chd" : 0,
    "charondebug_dmn" : 0,
    "charondebug_enc" : 0,
    "charondebug_esp" : 0,
    "charondebug_ike" : 0,
    "charondebug_imc" : 0,
    "charondebug_imv" : 0,
    "charondebug_job" : 0,
    "charondebug_knl" : 0,
    "charondebug_lib" : 0,
    "charondebug_mgr" : 0,
    "charondebug_net" : 0,
    "charondebug_pts" : 0,
    "charondebug_tls" : 0,
    "charondebug_tnc" : 0,
    "closeaction" : "none",
    "compress" : "no",
    "dpdaction" : "clear",
    "dpddelay" : 300,
    "dpdtimeout" : 150,
    "esp" : "aes256-sha256, chacha20poly1305-sha512, aes256-sha1, aes256gcm16-ecp384, 3des-sha1!",
    "forceencaps" : "yes",
    "fragmentation" : "yes",
```

```
"ike" : "aes256-sha1-modp1024, aes128-sha1-modp1024, chacha20poly1305-sha512-curve25519-  
prfsha512, aes256gcm16-sha384-prfsha384-ecp384, 3des-sha1-modp1024! ",  
  "ikelifetime" : 86400,  
  "inactivity" : 86400,  
  "installpolicy" : "yes",  
  "keyingtries" : 5,  
  "lifetime" : 3600,  
  "margintime" : 600,  
  "mobike" : "yes",  
  "modeconfig" : "pull",  
  "reauth" : "yes",  
  "rekey" : "no",  
  "rekeyfuzz" : 100,  
  "strictcrlpolicy" : "no",  
  "type" : "tunnel",  
  "uniqueids" : "no"  
},  
  "status" : "success"  
}
```

#### Errors:

- Not authorized

# IKEv2 Advanced settings set

**Request Structure:** `https://<puqvpnpv>/api/v1/ikev2/advanced_settings`

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

**Method:** `PUT`

**PUT data:**

**Options required:**

```
"charondebug_dmn" = "- 1| 0| 1| 2| 3| 4"  
"charondebug_mgr" = "1| 0| 1| 2| 3| 4"  
"charondebug_ike" = "1| 0| 1| 2| 3| 4"
```

```
"charondebug_chd" = "1| 0| 1| 2| 3| 4"
"charondebug_job" = "1| 0| 1| 2| 3| 4"
"charondebug_cfg" = "1| 0| 1| 2| 3| 4"
"charondebug_knl" = "1| 0| 1| 2| 3| 4"
"charondebug_net" = "1| 0| 1| 2| 3| 4"
"charondebug_asn" = "1| 0| 1| 2| 3| 4"
"charondebug_enc" = "1| 0| 1| 2| 3| 4"
"charondebug_lib" = "1| 0| 1| 2| 3| 4"
"charondebug_esp" = "1| 0| 1| 2| 3| 4"
"charondebug_tls" = "1| 0| 1| 2| 3| 4"
"charondebug_tnc" = "1| 0| 1| 2| 3| 4"
"charondebug_imc" = "1| 0| 1| 2| 3| 4"
"charondebug_imv" = "1| 0| 1| 2| 3| 4"
"charondebug_pts" = "1| 0| 1| 2| 3| 4"
"uniqueids" = "yes| no| never| replace| keep"
"strictcrlpolicy" = "yes| no| ifuri"
"authby" = "pubkey| rsasig| ecdsasig| psk| secret| xauthrsasig| xauthpsk| never"
"closeaction" = "none| clear| hold| restart"
"compress" = "yes| no"
"dpdaction" = "none| clear| hold| restart"
"dpddelay" = "0- 2147483647"
"dpdtimeout" = "0- 2147483647"
"inactivity" = "0- 2147483647"
"esp" = ""
"forceencaps" = "yes| no"
"fragmentation" = "yes| accept| force| no"
"ike" = ""
"ikelifetime" = "0- 2147483647"
"installpolicy" = "yes| no"
"keyingtries" = "1- 2147483647"
"lifetime" = "1- 86400"
"margintime" = "1- 2147483647"
"mobike" = "yes| no"
"modeconfig" = "push| pull"
"reauth" = "yes| no"
"rekey" = "yes| no"
"rekeyfuzz" = "0- 2147483647"
"type" = "tunnel| transport| transport_proxy| passthrough| drop"
```

## Example:

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-d "authby=pubkey&\
charondebug_asn=1&\
charondebug_cfg=1&\
charondebug_chd=1&\
charondebug_dmn=1&\
charondebug_enc=1&\
charondebug_esp=1&\
charondebug_ike=1&\
charondebug_imc=1&\
charondebug_imv=1&\
charondebug_job=1&\
charondebug_knl=1&\
charondebug_lib=1&\
charondebug_mgr=1&\
charondebug_net=1&\
charondebug_pts=1&\
charondebug_tls=1&\
charondebug_tnc=1&\
closeaction=none&\
compress=no&\
dpdaction=clear&\
dpddelay=300&\
dpdtimeout=150&\
esp=$(sed -e 's,!,%21,g' <<EOF
aes256-sha256, chacha20poly1305-sha512, aes256-sha1, aes256gcm16-ecp384, 3des-sha1!
EOF
)
&\
forceencaps=yes&\
fragmentation=yes&\
ike=$(sed -e 's,!,%21,g' <<EOF
aes256-sha1-modp1024, aes128-sha1-modp1024, chacha20poly1305-sha512-curve25519-
prfsha512, aes256gcm16-sha384-prfsha384-ecp384, 3des-sha1-modp1024!
EOF
```

```
)
&\
ikelifetime=86400&\
inactivity=86400&\
installpolicy=yes&\
keyingtries=5&\
lifetime=3600&\
margintime=600&\
mobike=yes&\
modeconfig=pull&\
reauth=yes&\
rekey=no&\
rekeyfuzz=100&\
strictcrlpolicy=no&\
type=tunnel&\
uniqueids=no" \
-X PUT https://dev.softkeel.com/api/v1/ikev2/advanced_settings
```

### Response example:

```
{
  "error" : "",
  "msg" : {
    "authby" : "pubkey",
    "charondebug_asn" : 1,
    "charondebug_cfg" : 1,
    "charondebug_chd" : 1,
    "charondebug_dmn" : 1,
    "charondebug_enc" : 1,
    "charondebug_esp" : 1,
    "charondebug_ike" : 1,
    "charondebug_imc" : 1,
    "charondebug_imv" : 1,
    "charondebug_job" : 1,
    "charondebug_knl" : 1,
    "charondebug_lib" : 1,
    "charondebug_mgr" : 1,
    "charondebug_net" : 1,
    "charondebug_pts" : 1,
    "charondebug_tls" : 1,
```

```

    "charondebug_tnc" : 1,
    "closeaction" : "none",
    "compress" : "no",
    "dpdaction" : "clear",
    "dpddelay" : 300,
    "dpdtimeout" : 150,
    "esp" : "aes256-sha256, chacha20poly1305-sha512, aes256-sha1, aes256gcm16-ecp384, 3des-sha1!",
    "forceencaps" : "yes",
    "fragmentation" : "yes",
    "ike" : "aes256-sha1-modp1024, aes128-sha1-modp1024, chacha20poly1305-sha512-curve25519-prfsha512, aes256gcm16-sha384-prfsha384-ecp384, 3des-sha1-modp1024!",
    "ikelifetime" : 86400,
    "inactivity" : 86400,
    "installpolicy" : "yes",
    "keyingtries" : 5,
    "lifetime" : 3600,
    "margintime" : 600,
    "mobike" : "yes",
    "modeconfig" : "pull",
    "reauth" : "yes",
    "rekey" : "no",
    "rekeyfuzz" : 100,
    "strictcrlpolicy" : "no",
    "type" : "tunnel",
    "uniqueids" : "no"
  },
  "status" : "success"
}

```

## Errors:

```

-Not authorized
-Incorrect value Charondebug dmn (should be -1 to 4)
-Incorrect value Charondebug mgr (should be -1 to 4)
-Incorrect value Charondebug ike (should be -1 to 4)
-Incorrect value Charondebug chd (should be -1 to 4)
-Incorrect value Charondebug job (should be -1 to 4)
-Incorrect value Charondebug cfg (should be -1 to 4)
-Incorrect value Charondebug knl (should be -1 to 4)

```

```
-Incorrect value Charondebug net (should be -1 to 4)
-Incorrect value Charondebug asn (should be -1 to 4)
-Incorrect value Charondebug enc (should be -1 to 4)
-Incorrect value Charondebug lib (should be -1 to 4)
-Incorrect value Charondebug esp (should be -1 to 4)
-Incorrect value Charondebug tls (should be -1 to 4)
-Incorrect value Charondebug tnc (should be -1 to 4)
-Incorrect value Charondebug imc (should be -1 to 4)
-Incorrect value Charondebug imv (should be -1 to 4)
-Incorrect value Charondebug pts (should be -1 to 4)
-Incorrect value Uniqueids (should be yes|no|never|replace|keep)
-Incorrect value Strictcrpolicys (should be yes|no|ifuri)
-Incorrect value Authby (should be
pubkey|rsasig|ecdsasig|psk|secret|xauthrsasig|xauthpsk|never)
-Incorrect value Closeaction (should be none|clear|hold|restart)
-Incorrect value Compress (should be yes|no)
-Incorrect value Closeaction (should be none|clear|hold|restart)
-Incorrect value Dpddelay (should be 0 to 2147483647)
-Incorrect value Dpddtimeout (should be 0 to 2147483647)
-Incorrect value Inactivity (should be 0 to 2147483647)
-Esp must be filled
-Incorrect value Forceencaps (should be yes|no)
-Incorrect value Forceencaps (should be yes|accept|force|no)
-Ike must be filled
-Incorrect value Ikelifetime (should be 0 to 2147483647)
-Incorrect value Installpolicy (should be yes|no)
-Incorrect value Keyingtries (should be 1 to 2147483647)
-Incorrect value Lifetime (should be 1 to 86400)
-Incorrect value Margintime (should be 1 to 2147483647)
-Incorrect value Mobike (should be yes|no)
-Incorrect value Modeconfig (should be push|pull)
-Incorrect value Reauth (should be yes|no)
-Incorrect value Rekey (should be yes|no)
-Incorrect value Keyingtries (should be 0 to 2147483647)
-Incorrect value Type (should be tunnel|transport|transport_proxy|passthrough|drop)
```

---

## IKEv2 Advanced settings set

# default

**Request Structure:** `https://<puqvpnpv>/api/v1/ikev2/advanced_settings/default`

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

**Method:** `PUT`

## Example:

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-X PUT https://dev.softkeel.com/api/v1/ikev2/advanced_settings/default
```

## Response example:

```
{
  "error" : "",
  "msg" : {
    "authby" : "pubkey",
    "charondebug_asn" : 0,
    "charondebug_cfg" : 0,
    "charondebug_chd" : 0,
    "charondebug_dmn" : 0,
    "charondebug_enc" : 0,
    "charondebug_esp" : 0,
    "charondebug_ike" : 0,
    "charondebug_imc" : 0,
    "charondebug_imv" : 0,
    "charondebug_job" : 0,
    "charondebug_knl" : 0,
    "charondebug_lib" : 0,
    "charondebug_mgr" : 0,
    "charondebug_net" : 0,
    "charondebug_pts" : 0,
    "charondebug_tls" : 0,
    "charondebug_tnc" : 0,
    "closeaction" : "none",
```

```
    "compress" : "no",
    "dpdaction" : "clear",
    "dpddelay" : 300,
    "dpdtimeout" : 150,
    "esp" : "aes256-sha256, chacha20poly1305-sha512, aes256-sha1, aes256gcm16-ecp384, 3des-sha1!",
    "forceencaps" : "yes",
    "fragmentation" : "yes",
    "ike" : "aes256-sha1-modp1024, aes128-sha1-modp1024, chacha20poly1305-sha512-curve25519-prfsha512, aes256gcm16-sha384-prfsha384-ecp384, 3des-sha1-modp1024!",
    "ikelifetime" : 86400,
    "inactivity" : 86400,
    "installpolicy" : "yes",
    "keyingtries" : 5,
    "lifetime" : 3600,
    "margintime" : 600,
    "mobike" : "yes",
    "modeconfig" : "pull",
    "reauth" : "yes",
    "rekey" : "no",
    "rekeyfuzz" : 100,
    "strictcrlpolicy" : "no",
    "type" : "tunnel",
    "uniqueids" : "no"
  },
  "status" : "success"
}
```

## Errors:

-Not authorized



# Check online users

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## Check online users WireGuard protocol

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

**Method:** `GET`

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

**Example:**

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-X GET https://dev.softkeel.com/api/v1/wireguard/online
```

**Response example:**

```
{
  "error" : "",
  "msg" : [
    {
      "allowed_IPs" : "10.0.110.17",
      "b_download" : "10",
      "b_upload" : "10",
      "endpoint" : "79.184.218.180:47471",
      "latest_handshake" : "2022-12-12 13:02:01",
      "name" : "ruslan_telefon",
      "status" : "enable",
      "transfer_rx" : "3892",
```

```
    "transfer_tx" : "2972",
    "username" : "user_32",
    "wg_name" : "77_87_125_209"
  },
  {
    "allowed_IPs" : "10.0.110.12",
    "b_download" : "30",
    "b_upload" : "30",
    "endpoint" : "77.87.125.204:59558",
    "latest_handshake" : "2022-12-12 13:01:48",
    "name" : "test_mac",
    "status" : "enable",
    "transfer_rx" : "2244",
    "transfer_tx" : "3356",
    "username" : "test_mac",
    "wg_name" : "77_87_125_209"
  }
],
"status" : "success"
}
```

#### Errors:

- Not authorized

# Check online users IKEv2 protocol

**Request Structure:** `https://<puqvpnpv>/api/v1/ikev2/online`

**Method:** `GET`

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

#### Example:

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
```

-X GET https://dev.softkeel.com/api/v1/ikev2/online

### Response example:

```
{
  "error" : "",
  "msg" : [
    {
      "allowed_IPs" : "10.0.110.17",
      "b_download" : "10",
      "b_upload" : "10",
      "endpoint" : "79.184.218.180",
      "name" : "ruslan_telefon",
      "status" : "enable",
      "uptime" : " 11 seconds ago",
      "username" : "user_32",
      "wg_name" : "77_87_125_209"
    },
    {
      "allowed_IPs" : "10.0.110.12",
      "b_download" : "30",
      "b_upload" : "30",
      "endpoint" : "77.87.125.204",
      "name" : "test_mac",
      "status" : "enable",
      "uptime" : " 4 seconds ago",
      "username" : "test_mac",
      "wg_name" : "77_87_125_209"
    }
  ],
  "status" : "success"
}
```

### Errors:

-Not authorized

### Errors:

-Not authorized

---

# Drop user connection IKEv2 protocol

**Request Structure:** `https://<puqvpnpv>/api/v1/ikev2/online/<NAME>`

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

**Method:** `DELETE`

**Example:**

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-X DELETE https://dev.softkeel.com/api/v1/ikev2/online/ruslan_telefon
```

**Response example:**

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

**Errors:**

```
- Not authorized
```

---



# One-time link

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## One-time link Config

**Request Structure:** `https://<puqvnpv>/api/v1/otl/config`

**Method:** `GET`

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

**Example:**

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-X GET https://dev.softkeel.com/api/v1/otl/config
```

**Response example:**

```
{
  "error" : "",
  "msg" : {
    "after_body" : "\n<br>\n<br>\n<hr>\n<br>\n<br>\n<div class=\"intro\">\n\t<a
href=\"https://doc.puq.info\">doc.puq.info</a>\n\t<br>\n\t<a
href=\"https://www.puqcloud.com\">www.puqcloud.com</a>\n\t<hr>\n</div>\n<p>PUQ sp. z
o. o. </p>\n\t",
    "before_body" : "\n<h1>This is a one-time link with configuration
options</h1>\n\t",
    "css" : "\n* {\n\tbackground-color: #E5E5E5;\n\ttext-align:
center;\n}\n\n.wireguard,.ikev2 {\n\tmargin: auto;\n\twidth: 550px;\n\ttext-align:
center;\n}\n\n\n\t\n.qr-img{\n\ttext-align: center;\n}\n\n\n.config-text{\n\ttext-align:
center;\n\tdisplay: inline-block;\n}\n\n\n.config-text pre {\n\twidth: 550px;\n\ttext-align:
left;\n\toverflow-x: auto;\n\ttab-width: 1;\n\toverflow-x: auto;\n\twhite-space: pre-
```

```
wrap;\n\twhite-space: -moz-pre-wrap !important;\n\twhite-space: -pre-wrap;\n\twhite-space: -o-
pre-wrap;\n\tword-wrap: break-word;\n\tbackground: #fff;\n}\n\n.btn {\n\twidth:
400px;\n\tborder: none;\n\tcolor: white;\n\tpadding: 4px 10px;\n\ttext-align: center;\n\ttext-
decoration: none;\n\tdisplay: inline-block;\n\tfont-size: 20px;\n\tmargin: 5px
5px;\n\ttransition-duration: 0.5s;\n\tcursor: pointer;\n\tbackground-color: white;\n\tcolor:
black;\n\tborder: 5px solid #008CBA;\n}\n\n.btn:hover {\n\tbackground-color:
RoyalBlue;\n}\n\n.authorization_data {\n\ttext-align: center;\n\tfont-size:
20px;\n}\n\n.authorization_data table {\n\twidth: 100%;\n}\n\n@media only screen and
(orientation: portrait){\n\t* h1 {\n\t\tfont-size: 50px;\n\t}\n\t.wireguard,.ikev2
{\n\t\twidth: 90%;\n\t\tmargin: auto;\n\t}\n\t.btn {\n\t\twidth: 90%;\n\t\tfont-size:
50px;\n\t\tmargin: 5px 5px;\n\t}\n\t.qr-img img{\n\t\twidth: 100%;\n\t\theight:
100%;\n\t}\n\t.config-text{\n\t\twidth: 100%;\n\t}\n\t.config-text pre {\n\t\twidth:
100%;\n\t}\n\t.authorization_data {\n\t\ttext-align: center;\n\t\tfont-size:
50px;\n\t}\n}\n",
    "lifetime" : "10",
    "not_relevant" : "\n<h1>This link is no longer relevant.</h1>\n<h1>Request a new
link.</h1>\n<br>\n<div class=\"intro\">\n\t<a
href=\"https://doc.puq.info\">doc.puq.info</a>\n\t<br>\n\t<a
href=\"https://www.puqcloud.com\">www.puqcloud.com</a>\n\t<hr>\n</div>\n<p>PUQ sp. z
o. o.</p>\n\t",
    "title" : "One-time link"
  },
  "status" : "success"
}
```

## Errors:

- Not authorized

# One-time link list

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

**Method:** `GET`

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

## Example:

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-X GET https://dev.softkeel.com/api/v1/otl/list
```

## Response example:

```
{
  "error" : "",
  "msg" : {
    "olts" : {
      "05fcdebdbd5744aa4df6b72386cacc0bea2b452475d5d31ff25744695c7372a2a3adaed3988382b8" :
    {
      "account" : "ruslan_windows",
      "created_data" : "2022-12-09",
      "key" :
      "05fcdebdbd5744aa4df6b72386cacc0bea2b452475d5d31ff25744695c7372a2a3adaed3988382b8",
      "lifetime" : "2022-12-19"
    },
      "569a3095db4c2251491e0dc19c302b1a9d5f64a67f83d53040cde52a108ea970d940926ca0eb58dc" :
    {
      "account" : "peer_101",
      "created_data" : "2022-12-09",
      "key" :
      "569a3095db4c2251491e0dc19c302b1a9d5f64a67f83d53040cde52a108ea970d940926ca0eb58dc",
      "lifetime" : "2022-12-19"
    },
      "84cb3a75982f739f68458e72e361ee3eae6f419400ce28713f88a371ff254a3f3db4392cf405a00f" :
    {
      "account" : "ruslan_windows",
      "created_data" : "2022-12-09",
      "key" :
      "84cb3a75982f739f68458e72e361ee3eae6f419400ce28713f88a371ff254a3f3db4392cf405a00f",
      "lifetime" : "2022-12-19"
    },
      "8d0fa51763d06ebe7db4d82e6f5a521421087b4a13e6b7fb1f5c1f6939171926437d23c8d66402ef" :
    {
      "account" : "ruslan_windows",
      "created_data" : "2022-12-09",
```

```
"key" :
"8d0fa51763d06ebe7db4d82e6f5a521421087b4a13e6b7fb1f5c1f6939171926437d23c8d66402ef",
  "lifetime" : "2022-12-19"
},
"b91361407612aec12803ecac999bba70a3b4b1466caa50c61344e93acac86f8f1caa7cc1f8bcafdc" :
{
  "account" : "ruslan_windows",
  "created_data" : "2022-12-09",
  "key" :
"b91361407612aec12803ecac999bba70a3b4b1466caa50c61344e93acac86f8f1caa7cc1f8bcafdc",
  "lifetime" : "2022-12-19"
},
"dbfa0ab6ba04d3c186031cd6b276c7405d030d12c6524e52accc4cd32e2e68554cf6fecabfb56c1e" :
{
  "account" : "ruslan_dom_pc",
  "created_data" : "2022-12-10",
  "key" :
"dbfa0ab6ba04d3c186031cd6b276c7405d030d12c6524e52accc4cd32e2e68554cf6fecabfb56c1e",
  "lifetime" : "2022-12-20"
}
},
"status" : "success"
}
```

#### Errors:

- Not authorized

# One-time link WireGuard Config section

**Request Structure:** `https://<puqypnvp>/api/v1/otl/config_wireguard`

**Method:** `GET`

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

### Example:

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-X GET https://dev.softkeel.com/api/v1/otl/config_wireguard
```

### Response example:

```
{
  "error" : "",
  "msg" : {
    "button1_label" : "Download client Android",
    "button1_link" :
"https://play.google.com/store/apps/details?id=com.wireguard.android",
    "button2_label" : "Download client iOS",
    "button2_link" : "https://apps.apple.com/us/app/wireguard/id1441195209",
    "button3_label" : "Download client Windows",
    "button3_link" : "https://download.wireguard.com/windows-client/wireguard-
installer.exe",
    "button4_label" : "Download client macOS",
    "button4_link" : "https://itunes.apple.com/us/app/wireguard/id1451685025",
    "button5_label" : "Official clients WireGuard",
    "button5_link" : "https://www.wireguard.com/install/",
    "button6_label" : "",
    "button6_link" : "",
    "download_config_button_label" : "Dowload config file",
    "enable" : true,
    "enable_config_qr" : true,
    "enable_config_text" : true
  },
  "status" : "success"
}
```

### Errors:

- Not authorized

# One-time link IKEv2 Config section

**Request Structure:** `https://<puqvpnp>/api/v1/otl/config_ikev2`

**Method:** `GET`

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

## Example:

```
curl \
-b
"access_hash=def77a57825907131fca3ba92fc22970ffe7429fd8b49535e178f59542c42cf2be854e296941de9f"
\
-X GET https://dev.softkeel.com/api/v1/otl/config_ikev2
```

## Response example:

```
{
  "error" : "",
  "msg" : {
    "button1_label" : "Download client Android",
    "button1_link" :
"https://play.google.com/store/apps/details?id=org.strongswan.android",
    "button2_label" : "Download client Debian/Ubuntu",
    "button2_link" : "https://download.strongswan.org/NetworkManager/",
    "button3_label" : "Official clients strongSwan",
    "button3_link" : "https://download.strongswan.org/",
    "button4_label" : "",
    "button4_link" : "",
    "button5_label" : "",
    "button5_link" : "",
    "button6_label" : "",
    "button6_link" : "",
    "download_certificate_button_label" : "Download Certificate CA",
    "download_profile_button_label" : "Download Profile",
    "enable" : true
  },
}
```

```
"status" : "success"  
}
```

### Errors:

-Not authorized

---

# Traffic Logging Config

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## Traffic Logging Get Config

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

**Method:** `GET`

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

### Example:

```
curl \
-b
"access_hash=f3a4359ffc8c62629e1067c76df99cda7d64f4e82f8e24e6fa9569b9b48de5c58af8d53b4f444a70"
\
-X GET https://dev.softkeel.com/api/v1/traffic_logging
```

### Response example:

```
{
  "error" : "",
  "msg" : {
    "enabled" : true,
    "enabled_influxdb" : true,
    "enabled_remote_syslog" : true,
    "established" : true,
    "incoming" : false,
    "influxdb_bucket" : "logs_puqvpncp",
    "influxdb_organization" : "PUQ sp. z o.o.",
    "influxdb_token" :
"xbU0AfUh0mPsP9Izviojd0TGLIyo8Io1PFW3DXK2VQDeoUEDDBXwEkJ36A6H2uDBIiW7DEVsG4TgGiUTq6rslg==",
    "influxdb_url" : "http://77.87.125.208:8086",
    "interface_in" : false,
```

```
    "interface_out" : false,
    "invalid" : false,
    "len" : false,
    "mark" : false,
    "new" : false,
    "related" : true,
    "remote_syslog_server" : "77.87.125.208",
    "remote_syslog_server_port" : 514,
    "tos" : false,
    "untracked" : false
  },
  "status" : "success"
}
```

### Errors:

- Not authorized

# Traffic Logging Edit Config

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

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

**Method:** `PUT`

**PUT data:**

**Not required:**

```
"enabled" = 1| 0
"enabled_influxdb" = 1| 0
"enabled_remote_syslog" = 1| 0
"established" = 1| 0
"incoming" = 1| 0
"influxdb_bucket" = "<bucket_name>"
"influxdb_organization" = "<organization_name>"
"influxdb_token" = "<influxdb_token>"
"influxdb_url" = "influxdb_url"
```

```
"interface_in" = 1| 0
"interface_out" = 1| 0
"invalid" = 1| 0
"len" = 1| 0
"mark" = 1| 0
"new" = 1| 0
"related" = 1| 0
"remote_syslog_server" = <XXX. XXX. XXX. XXX>
"remote_syslog_server_port" = 1-65536,
"tos" = 1| 0
"untracked" = 1| 0
```

### Example:

```
curl \
-b
"access_hash=f3a4359ffc8c62629e1067c76df99cda7d64f4e82f8e24e6fa9569b9b48de5c58af8d53b4f444a70"
\
-d "enabled=1&\
enabled_influxdb=1&\
enabled_remote_syslog=1&\
established=1&\
incoming=0&\
influxdb_bucket=logs_puqvpncp&\
influxdb_organization=PUQ sp. z o. o. &\
influxdb_token=xbU0AfUh0mPsP9Izviojd0pGLIyo8Io1PFw8DXKHVQDeoUEDDBXwEkJ36A6H2uDBIiW7DEVsG4TgGiUT
influxdb_url=http://77.87.125.208:8086&\
interface_in=0&\
interface_out=0&\
invalid=0&\
len=0&\
mark=0&\
new=0&\
related=1&\
remote_syslog_server=77.87.125.208&\
remote_syslog_server_port=514&\
tos=0&\
untracked=0" \
-X PUT https://dev.softkeel.com/api/v1/traffic_logging
```

## Response example:

```
{
  "error" : "",
  "msg" : {
    "enabled" : true,
    "enabled_influxdb" : true,
    "enabled_remote_syslog" : true,
    "established" : true,
    "incoming" : false,
    "influxdb_bucket" : "logs_puqvpncp",
    "influxdb_organization" : "PUQ sp. z o.o.",
    "influxdb_token" :
"xbU0AfUh0mPsP9Izviod0pGLIyo8Io1PFw8DXKHVQDeoUEDDBXwEkJ36A6H2uDBIiW7DEVsG4TgGiUTq6rs1g==",
    "influxdb_url" : "http://77.87.125.208:8086",
    "interface_in" : false,
    "interface_out" : false,
    "invalid" : false,
    "len" : false,
    "mark" : false,
    "new" : false,
    "related" : true,
    "remote_syslog_server" : "77.87.125.208",
    "remote_syslog_server_port" : 514,
    "tos" : false,
    "untracked" : false
  },
  "status" : "success"
}
```

## Errors:

- Not authorized
  - Remote Syslog Server must be filled
  - InfluxDB Telegraf not installed
  - InfluxDB Url must be filled
  - InfluxDB Token must be filled
  - InfluxDB Bucket must be filled
  - InfluxDB Organization must be filled
  - At least one logging method must be enabled (Remote Syslog or/and InfluxDB)
-

# Backups

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## Backups List

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

**Method:** `GET`

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

### Example:

```
curl \
-b
"access_hash=7effe99173b87e9cdebdab66d6fb23c9b244af250cb09b5dd36d8f80d14a8510b2d00bcba7290252"
\
-X GET https://dev.softkeel.com/api/v1/system/backups
```

### Response example:

```
{
  "error" : "",
  "msg" : {
    "backups" : [
      {
        "backup_name" : "dev.softkeel.com_2023-01-27_19-00-40.zip",
        "creation_date" : "2023-01-27T19:00:57.159356394+01:00",
        "size" : 7.462
      },
      {
        "backup_name" : "dev.softkeel.com_2023-01-27_18-00-39.zip",
        "creation_date" : "2023-01-27T18:00:55.902692143+01:00",
        "size" : 7.462
      }
    ]
  }
}
```

```
{
  "backup_name" : "dev.softkeel.com_2023-01-27_17-00-37.zip",
  "creation_date" : "2023-01-27T17:00:54.501350728+01:00",
  "size" : 7.462
}
],
{
  "status" : "success"
}
```

#### Errors:

- Not authorized

# Backup Create

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

**Method:** POST

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

**Options not required:**

`statistics=0|1`

#### Example:

```
curl \
-b
"access_hash=7b8125b94edbb5baf677286fb186942673afe317e0298601990d4cf3dd37991e399e764f9bc2fd20"
\
-d "statistics=1" \
-X POST https://dev.softkeel.com/api/v1/backups
```

#### Response example:

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

```
"msg" : {
  "backup_name" : "dev.softkeel.com_2023-01-28_12-50-42.zip",
  "creation_date" : "2023-01-28T12:50:59.772514276+01:00",
  "size" : 7.6038
},
"status" : "success"
}
```

## Errors:

- Not authorized
- Error backup creation:
- FTP upload error:

# Backup Restore

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

**Method:** PUT

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

## Options required:

`backup_name="backup_name"`

## Example:

```
curl \
-b
"access_hash=7b8125b94edbb5baf677286fb186942673afe317e0298601990d4cf3dd37991e399e764f9bc2fd20"
\
-d "backup_name=dev.softkeel.com_2023-01-28_12-50-42.zip" \
-X PUT https://dev.softkeel.com/api/v1/backups/restore
```

## Response example:

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

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

## Errors:

```
- Not authorized  
- PUQVPNCP status not OK  
- There is no backup with this name  
- Error backup reader:  
- Empty list of files in file with file list  
- Empty archive  
- The number of files in the archive does not match the list of files in the file  
- Mismatch between files in archive and list of files  
- Unable to delete old configuration:  
- Failed to open archive, ERROR:  
- Failed to create folder:  
- Failed to create file:  
- Failed to unzip file:
```

# Backup Download

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

**Method:** GET

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

## Example:

```
curl \  
-b  
"access_hash=7b8125b94edbb5baf677286fb186942673afe317e0298601990d4cf3dd37991e399e764f9bc2fd20"  
\  
-X GET https://dev.softkeel.com/api/v1/backups/dev.softkeel.com_2023-01-28_12-00-59.zip \  
--output dev.softkeel.com_2023-01-28_12-00-59.zip
```

## Errors:

- Not authorized

# Backups Get Configuration

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

**Method:** GET

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

## Options required:

`backup_name="backup_name"`

## Example:

```
curl \
-b
"access_hash=7b8125b94edbb5baf677286fb186942673afe317e0298601990d4cf3dd37991e399e764f9bc2fd20"
\
-X GET https://dev.softkeel.com/api/v1/backups/config
```

## Response example:

```
{
  "error" : "",
  "msg" : {
    "backup_to_ftp" : true,
    "every_day" : true,
    "every_day_hour" : 13,
    "every_day_minute" : 5,
    "every_day_statistics" : true,
    "every_hour" : true,
    "every_hour_minute" : 50,
    "every_hour_statistics" : true,
    "ftp_password" : "QWEqwe123",
    "ftp_path" : "home/dev.softkeel.com",
```

```
    "ftp_server" : "home.uuq.pl",
    "ftp_server_port" : 21,
    "ftp_user" : "puqvpncp",
    "number_backups" : 10
  },
  "status" : "success"
}
```

## Errors:

- Not authorized

# Backups Set Configuration

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

**Method:** PUT

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

## Options required:

```
backup_to_ftp=1| 0
every_day=1| 0
every_day_hour=0- 23
every_day_minute=0- 59
every_day_statistics=0| 1
every_hour=1| 0
every_hour_minute=0- 59
every_hour_statistics= 1| 0
ftp_password=
ftp_path=
ftp_server=
ftp_server_port=
ftp_user=
number_backups=
```

## Example:

```
curl \
-b
"access_hash=7b8125b94edbb5baf677286fb186942673afe317e0298601990d4cf3dd37991e399e764f9bc2fd20"
\
-d "backup_to_ftp=1&\
every_day=1&\
every_day_hour=14&\
every_day_minute=45&\
every_day_statistics=1&\
every_hour=1&\
every_hour_minute=40&\
every_hour_statistics=1&\
ftp_password=QWEqwe123&\
ftp_path=home/dev.softkeel.com&\
ftp_server=home.uuq.pl&\
ftp_server_port=21&\
ftp_user=puqvpncp&\
number_backups=100" \
-X PUT https://dev.softkeel.com/api/v1/backups/config
```

### Response example:

```
{
  "error" : "",
  "msg" : {
    "backup_to_ftp" : true,
    "every_day" : true,
    "every_day_hour" : 14,
    "every_day_minute" : 45,
    "every_day_statistics" : true,
    "every_hour" : true,
    "every_hour_minute" : 40,
    "every_hour_statistics" : true,
    "ftp_password" : "QWEqwe123",
    "ftp_path" : "home/dev.softkeel.com",
    "ftp_server" : "home.uuq.pl",
    "ftp_server_port" : 21,
    "ftp_user" : "puqvpncp",
    "number_backups" : 100
  },
}
```

```
"status" : "success"  
}
```

### Errors:

- Not authorized
- In every hour schedule, the minute parameter must be between 0 and 59
- In the daily schedule, the hour parameter must be between 0 and 23
- In a daily schedule, the minute parameter must be between 0 and 59
- Number backups parameter must be greater than 0
- FTP server must be filled
- FTP user must be filled
- FTP password must be filled

