

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 (selected), 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/

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://<puqvpnp>/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://<puqvpnp>/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=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbf6d31644eee3cd7f8365e71ad94a60"
\
-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://<puqvpnp>/api/v1/account`

Method: `GET`

Cookie: `access_hash=<access_hash>`

Example:

```
curl \
-b
"access_hash=eda121857897bcf0e4cdf5a3eaf957f35ccb62d39d5bc0bfbfb6d31644eee3cd7f8365e71ad94a60"
\
-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" : "G0LitV1C3WT6Pn2rNS8Qtg0LRMiJ385DYoDcfnrRbXY=",
    "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://<puqvpnp>/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  \"addr\":  
\\dev.softkeel.com\", \\n\\t\\t  \"id\": \"dev.softkeel.com\", \\n\\t\\t  \"cert\": \"-----BEGIN  
CERTIFICATE-----  
\\rMIIFfDCCA2SgAwIBAgIIMYZL3xAvgfwWDQYJKoZIhvcNAQEMBQAwxDEQMA4GA1UE\\rAxMHUFVRIFZQTjEXMBUGA1UEChM=  
END CERTIFICATE-----\\r\"\\n\\t\\t}, \\n\\t\\t\"local\": {\\n\\t\\t  \"eap_id\":  
\\user_104\"\\n\\t\\t}\\n\\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://<puqvpnpv>/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://<puqvpnp>/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-----  
MIIFfDCCA2SgAwIBAgIIMYZL3xAvgfwDQYJKoZIhvcNAQEMBQAwXDEQMA4GA1UE  
AxMHUFVRIFZQTjEXMBUGA1UEChM0UFVRIHNwLiB6IG8uby4xEDA0BgNVBAsTB1BV  
USBWUE4xEDA0BgNVBACjB1dhcnN6YXcxZCZAJBgNVBAYTALBMMB4XDTEyMTIwNTEw  
MzIzOFoXDTEyMTIwMjExMzIzOFoXDEQMA4GA1UEAxMHUFVRIFZQTjEXMBUGA1UE  
ChM0UFVRIHNwLiB6IG8uby4xEDA0BgNVBAsTB1BVUSBWUE4xEDA0BgNVBACjB1dh  
cnN6YXcxZCZAJBgNVBAYTALBMMIICijANBgkqhkiG9w0BAQEFAAOCAg8AMIICGKC  
AgEA1nYVzVwZxcXMsCeR3AnoPgvrHubvIslIPvp4lCFnSXZJhTXC5mmicZauPm1  
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
OuuibaoPcE0wQIueje84KtaEwA0a+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-----

MIIEJJwIBAAKCAgEA1nYVzVwZcxkXMsCeR3AnoPgvRHubvIs lIPvp4lCFnSXZJhTX
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/ZRs8GckySuv0om5PDgkW3wAOJy3e0Ti+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/odQTEbdLtyncrQxm3QtJKLMBQ3hyRdY95+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://<puqvpnp>/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-----
\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" : "-----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://<puqvpnpv>/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 Strictcrpolicy (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 Dpdtimeout (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.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\n.authorization_data {\n\ttext-align: center;\n\tfont-size:
20px;\n}\n\n.authorization_data table {\n\twidth: 100%;\n}\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://<puqvpnp>/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

