

# 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
AgEAlnYVZVwZxcXMsCer3AnoPgvrHubvIslIPvp4lCFnSXZJhTXC5mmicZauPm1
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+mffeqjBHSUAPfFSl0iWfeshx+XN1oun0SiPaeA9YAb/eiKF+l/0Fl  
wX59Ea2Mr559mRB0Dg90HMRMqG5K52gYy3V3tXg2/ZZNKeXML00Vbctf+hSkdsT4  
CZwL60LmJPQCBkNr6X0fBA==

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

EOF

)

&\

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

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

MIIEJJwIBAAKAgEA1nYVzVwZcxkXMsCeR3AnoPgvRHubvIsLIpvp4lCFnSXZJhTX  
C5mmicZauPm1L0mpclc9umNOM1LxSHV4pcFYp+M1bDUYMef3iaufeQ03cU4R4UrJ  
LsCC/WGwvw1oIqYDCxUtB0ePxZHNsBXDxu2/F0eVj X5SiPnCDxyY/tKsouJnX+bT  
GB5r0byeon6hA7V9mVrKJfKrIXhzKPtLe28nFa9c6aRu+R0q3KotcradPSdzzzzF  
hCSCXChbI7+ydfnSiJ3rARREHljMpv0rWM/9NyCPHUIJaR+XJ8JQMDdQxMP8oN0f  
KB8y66foLiFD oXWlvtGIFPkEnHbX2T7N//ly5xkA97upoQvo7wxtWV4x0Ie1nfLe  
sSZVCL/UL50d+LVf6NbguDda2HE15AuX6Mjn0tX18Yn6VQNUo8R5rr+3dpuZnUYV  
zfdbnaVmmSucISsQEUTZMzwTzCffpUwPzp8MMWB2K1pSOMTtC7o7cEjnv2BV8IuK  
hgK1V66lRapxcCWF/L1bHRasaqr5JCebGIVZNs d2qYJyuD6p0xP+VVo3PoboqusA  
SKvbQ9PcoMdxm8GJHzNnJsuUQhapP2PpDpdht58p0xstWyPnANDsfbqooFwPwAJW  
hHlkl7JhQWuYepEWKs78B3C2LYT6UeU4nJmRYNmsucLOUj9HpSJEMZ/nPnECAwEA  
AQKCAgA806lDYcf9jRedUZaS9ICI61uct0JrC5wwSsL/aY88DywT3P1RUPcnRJce

t9Rn4SCqSYw8fUYE0JWW05qwiLiBdLpuQnDmVsCiz4afsCorfNUdbTS6ieedLkQP  
LCJJEYtZc8IdunJQuX3x3SLy4rTc347b4BTpV5i8bpH5/PYx+m17UvthEmn7Tu  
qbPJdYR2JoYHVVisWZlwGj2iUNhpEh/sNLM0+hsQE0RosNrQKYxzTu1GmYRP1zJi  
ZVCcnYrVLNUmrTTU1qLVCiFtQzCyng15Yu2AX3Fj2X0c79N8u4m/pnfbzV2H8Uut  
Kcog1VIZgRxzt11Uc3CtMV8EJyArXrVEJwXdgMo19H4LvZxK0/rlyxz8Y/zggUSy  
/Ps05YIHDR1VsRe/Q+Gd4+ttJKMZ/E+ghIQ6mTjamZwG0iH4rji5jg21pFSBZqwm  
Lp7wpeTCYkFGAXbiNYVJw4PNoW0oPGLCdaNGiP2NEk4EPI6ieo+sFFZYBaPzrGw/  
St0YlKMrkGTCh7kGhYxFsIYtPp9t5La34msoqbCqPaxNP5rT3jeLcIkKuLE0/Xao  
ehAhXYVm+iDn1Y2iIzVy0ouEd9i1XYTEJp0/aA7QdEqyR7003Y6jHMDjekEfH9AA  
WFOGKedHfzML6uQQMuDzhVGTEmtJAEKXX0aIT+G7UZh88rrvAQKCAQEA8bKB/jL3  
o451NTJj+U/YZNRrfKysuDkBPnYIHuCWhWhmjJC0cF0txHhMhv6+KAGI4PU10f0Q  
iPQSaczP2LKgN6Dz8aJDqDonJ67sUzP+y+tNGpab0vydp8PH7KWpixaVt7bqi8K4  
C0ymbR1hW6HHyujULHM9s04zE1HI6ABTcsPbpTVh1lcl91TD42t2bSVfncdZqDKp  
00iaFSuk6gpIvYMesSpsUCJrAF4m05uPTwSRVQxg4tBj80LsdWiUvLow0ZXgcGd  
76XmZMmHit0FNN8zsDfoEg/GgLkoyY+2kmU5yahyvo2lBMLs/lpWQ5xp10PpnU4d  
3KWEynuNBxjQ+QKCAQEA4yb6AwP60hLgi4mfdaCHhXc8dZs+bP2CaE5lK4XFx/IM  
IrLYNjJfPwBNQ5Mlq2p6tedF3lRuU2/GXwvY0BlY1t5G2NdPqn6K0XDDcuq0u4JN  
2MmrTYrRjye4AtfP1qcVNnIU1kus+b4nK30b9m629sWEg0kHeDDF/Bw0WLoQAK/  
Cpbuzo70R4S1zx+F0p2MvDbErmmNtPgrFKiPjRixysgwnH5jnIiK667gHvinD23Z  
u6Zi0AS2Tm+0KhWELlaCC0PAB32dpAAUoKgv8RxbytvWQjgrOkKQSTEZ5T64BVZM  
4ClIz6+8IlQCHUouF59w5z86VEPHJYu1zU+eNsv0QKCAQA91BlW6rjYuS+YjSxv  
8ZH8sS5R9WY1tjdwQAdxxqgatotN0AmICv4TPWbuPaptV38pdPDJxcF+ENnJA0DG  
oWNE98KPtJ+0IDQ1/ZRs8GckySuv0om5PDgkW3wA0Jy3e0Ti+0LIJR6pAcjNLu/h  
3e/bI1aGJzjIbp+40Hq5hqPSPvIoQBCoISEQNTnrKmlgIGhmV0HD0jp6d0cdtU15  
pWhY0PuX/K86jKNss6j6JKAZaYq4A/Og8ggU7g3pNVV/N5E3e4auJdZ+IJ7UYFVx  
G3sifFqfoJ2YSTRYQxjC4V7y7NNt+6qeLeVcTvpETjyEMgujivr1rji4eCnX5XD  
FAEZAoIBAA01aTOi4SihkQA9TeIbW4CalxJmpW49d4aGZDCWF5RV11hqiIIZBa1  
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 R00T 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 Strictcrtpolicy (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

---

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