



## Common errors of IPsec Site-to-Site VPN

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Introduction: In this article, we will see the common errors found in establishing the site-to-site ipsec vpn tunnel and its possible reasons.

To view the ipsec logs, run the command `show log vpn ipsec`

The required configuration for a successful connection is explained in these articles:

[https://docs.vyos.io/en/crux/configuration/vpn/site2site\\_ipsec.html](https://docs.vyos.io/en/crux/configuration/vpn/site2site_ipsec.html)

<https://support.vyos.io/en/kb/articles/ipsec-site-to-site-vpn-2>

Successful connection:

```
charon: 13[ENC] parsed QUICK_MODE response 3604205383 [ HASH SA No KE  
ID ID ]
```

```
charon: 13[CFG] selected proposal:
```

```
ESP:AES_CBC_128/HMAC_SHA1_96/MODP_1024/NO_EXT_SEQ
```

```
charon: 13[IKE] CHILD_SA peer-10.2.0.15-tunnel-vti{6} established  
with SPIs c0655070_i cf008f0e_o and TS 0.0.0.0/0 === 0.0.0.0/0
```

Errors:

Phase 1 Proposal mismatch

Initiator:

```
charon: 13[ENC] parsed INFORMATIONAL_V1 request 1303032223 [  
N(NO_PROP) ]
```

```
charon: 13[IKE] received NO_PROPOSAL_CHOSEN error notify
```

Responder:

```
charon: 09[CFG] received proposals:
```

```
IKE:AES_CBC_256/HMAC_SHA1_96/PRF_HMAC_SHA1/MODP_1024
```

```
charon: 09[CFG] configured proposals:
```

```
IKE:AES_CBC_128/HMAC_SHA1_96/PRF_HMAC_SHA1/MODP_1024
```

```
charon: 09[IKE] no proposal found
```

Check if the configured encryption, hash and dh group values are the same between the

peers.

#### Phase 1 Pre-Shared Key Mismatch

```
charon: 13[ENC] invalid HASH_V1 payload length, decryption failed?  
charon: 13[ENC] could not decrypt payloads  
charon: 13[IKE] message parsing failed  
charon: 13[IKE] ignore malformed INFORMATIONAL request  
charon: 13[IKE] INFORMATIONAL_V1 request with message ID 3296715938  
processing failed
```

#### Phase 1 Identifier Mismatch

```
charon: 07[ENC] parsed INFORMATIONAL_V1 request 1394373082 [ HASH  
N(AUTH_FAILED) ]  
charon: 07[IKE] received AUTHENTICATION_FAILED error notify
```

The authentication id/remote-id configured in the initiator should match the remote-id/id of the responder respectively.

Aggressive/Main Mode mismatch:

Initiator:

```
charon: 05[IKE] initiating Aggressive Mode IKE_SA peer-10.30.0.2-  
tunnel-vti[2] to 10.30.0.2  
charon: 05[ENC] generating AGGRESSIVE request 0 [ SA KE No ID V V V V  
V ]  
charon: 05[NET] sending packet: from 10.30.0.1[500] to 10.30.0.2[500]  
(360 bytes)  
charon: 09[NET] received packet: from 10.30.0.2[500] to  
10.30.0.1[500] (56 bytes)  
charon: 09[ENC] parsed INFORMATIONAL_V1 request 1915047113 [  
N(AUTH_FAILED) ]  
charon: 09[IKE] <peer-10.30.0.2-tunnel-vti|2> received  
AUTHENTICATION_FAILED error notify
```

Responder:

```
charon: 06[IKE] 10.30.0.1 is initiating a Aggressive Mode IKE_SA  
charon: 15[IKE] Aggressive Mode PSK disabled for security reasons  
charon: 15[ENC] generating INFORMATIONAL_V1 request 1240365724 [  
N(AUTH_FAILED) ]
```

#### Phase 2 Proposal Mismatch

Initiator:

```
charon: 12[ENC] parsed INFORMATIONAL_V1 request 3790314576 [ HASH
```

```
N(NO_PROP) ]
```

```
charon: 12[IKE] received NO_PROPOSAL_CHOSEN error notify
```

Responder:

```
charon: 05[CFG] received proposals:
```

```
ESP:AES_CBC_256/HMAC_SHA2_256_128/MODP_1024/NO_EXT_SEQ
```

```
charon: 05[CFG] configured proposals:
```

```
ESP:AES_CBC_256/HMAC_SHA1_96/MODP_1024/NO_EXT_SEQ
```

```
charon: 05[IKE] no matching proposal found, sending
```

```
NO_PROPOSAL_CHOSEN
```

PFS mismatch also sends a similar error message.

If you face any other issue, collect logs and open a ticket in the [support](#) portal or raise a query in our [forum](#).

```
sudo swanctl -P
```

```
sudo swanctl -L
```

```
sudo ip x sa show
```

```
sudo ip x policy show
```

```
sudo ip -s l
```

```
sudo ip a
```

```
sudo ip rule show
```

```
sudo ip r
```

```
sudo ip r show table 220
```

```
sudo journalctl /usr/lib/ipsec/charon > /tmp/charon.log
```