

How to create a routed OpenVPN scenario

NetModule Router as OpenVPN server, IP: 192.168.1.0 ↔ NetModule Router as OpenVPN client, IP: 192.168. 4.0

Create an OpenVPN server

The screenshot shows the NetModule VPN configuration interface. The top navigation bar includes HOME, INTERFACES, ROUTING, FIREWALL, VPN, SERVICES, SYSTEM, and LOGOUT. The left sidebar lists various services: OpenVPN (Administration, Tunnel Configuration, Client Management), IPsec (Administration, Tunnel Configuration), PPTP (Administration, Tunnel Configuration), GRE (Administration, Tunnel Configuration), and Dial-in Server.

The main configuration area is titled "OpenVPN Tunnel 1 Configuration". It includes the following settings:

- Operation mode: disabled, client, server, standard, expert
- Server port: 1194
- Type: TUN
- Protocol: UDP
- Network mode: routed, bridged. MTU: []
- Cipher: BF-CBC
- Authentication: certificate-based
- HMAC digest: SHA1
- Options: use compression, redirect gateway, use keepalive

A red circle labeled "1" highlights the "Apply" button. A red circle labeled "2" highlights the error message: "root certificate, server certificate and server key are missing. Manage keys and certificates".

The bottom section shows the "OpenVPN1" configuration page. It includes tabs for Root CA, WebServer, SSH, OpenVPN1, and Other. The "OpenVPN1" tab is selected. The page displays the following information:

- The keys/certificates used for authenticating the OpenVPN tunnel
- Tunnel1 is running in server mode with certificates (configure)
- generate keys/certificates
- upload pre-generated keys/certificates
- Server certificate: missing
- Private key: missing
- CA root certificate: missing

A red circle labeled "3" highlights the "Create" button.



HOME INTERFACES ROUTING FIREWALL VPN

OpenVPN

Administration
Tunnel Configuration
Client Management

IPsec

Administration
Tunnel Configuration

Clients

Networking

Routes

Download

Client Management

Enabled	Client	Connection info
---------	--------	-----------------

4 <input checked="" type="checkbox"/>	Client1	
<input type="checkbox"/>	Client2	

5



HOME INTERFACES ROUTING FIREWALL VPN SERVICES SYSTEM LOGOUT

OpenVPN

Administration
Tunnel Configuration
Client Management

IPsec

Administration
Tunnel Configuration

PPTP

Administration
Tunnel Configuration

GRE

Administration
Tunnel Configuration

Dial-in Server

Clients

Networking

Routes

Download

Transport Network

Network:

Netmask:

Client Networks

This menu can be used to configure a fixed tunnel endpoint address for each client. You may also specify a network whose packets should get routed towards the client.

Select client:

Tunnel address: dynamic
 fixed

Client network: none specify

Network:

Netmask:

6



OpenVPN

- Administration
- Tunnel Configuration
- Client Management

IPsec

- Administration
- Tunnel Configuration

PPTP

- Administration
- Tunnel Configuration

GRE

- Administration
- Tunnel Configuration

Dial-in Server

HOME INTERFACES ROUTING FIREWALL VPN

Clients Networking Routes Download

Client Routes

This list of network routes will be pushed to each client, so that matching

Network	Netmask
<input type="text" value="192.168.1.0"/>	<input type="text" value="255.255.255.0"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>

The server network will be pushed to the client

Enable routing between clients:

7



OpenVPN

- Administration
- Tunnel Configuration
- Client Management

IPsec

- Administration
- Tunnel Configuration

PPTP

- Administration
- Tunnel Configuration

HOME INTERFACES ROUTING FIREWALL VPN

Clients Networking Routes Download

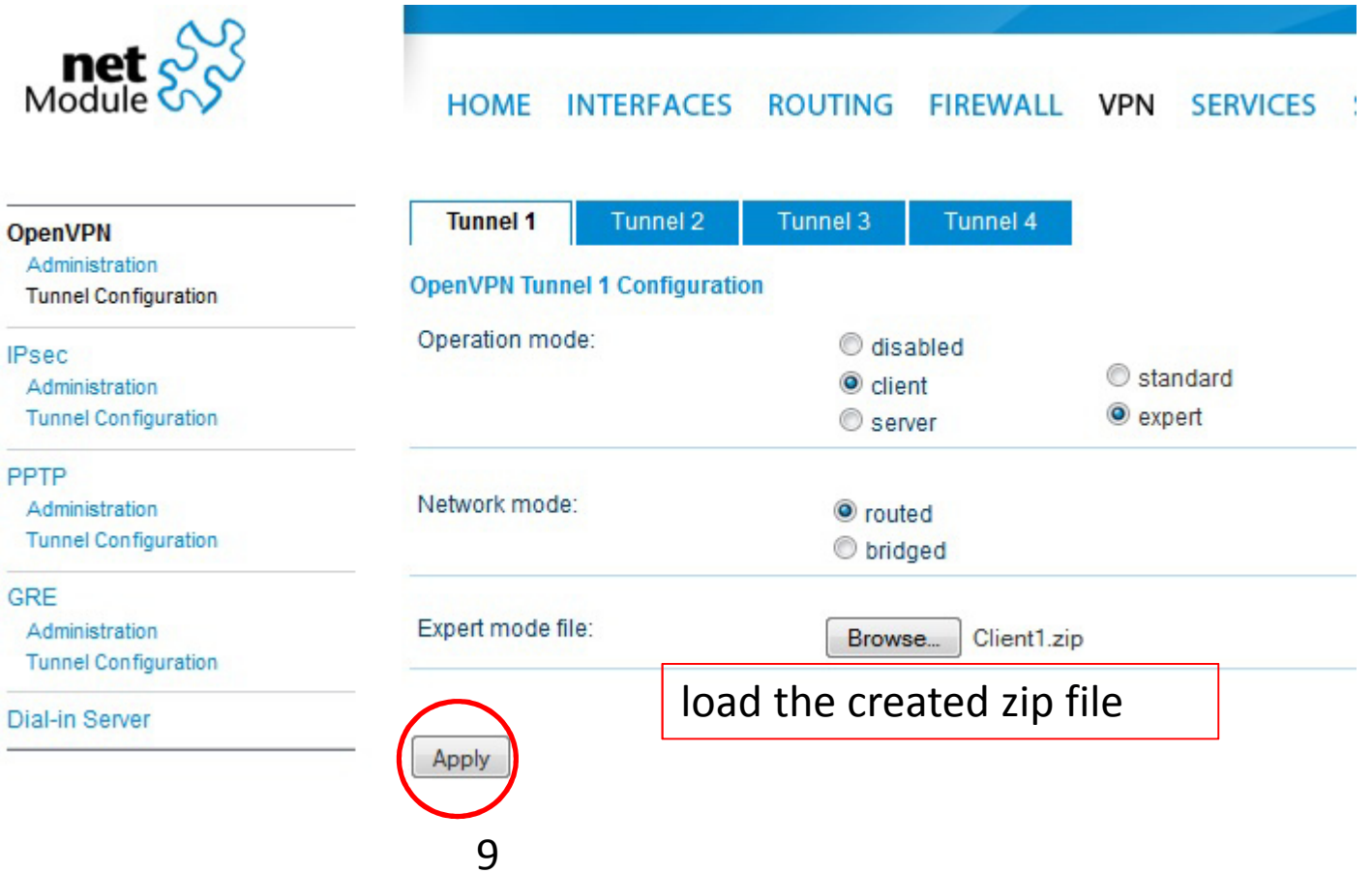
Download OpenVPN Client

Download Expert Mode Files

Server address/hostname:

8

Create an OpenVPN client



net Module

HOME INTERFACES ROUTING FIREWALL VPN SERVICES

Tunnel 1 Tunnel 2 Tunnel 3 Tunnel 4

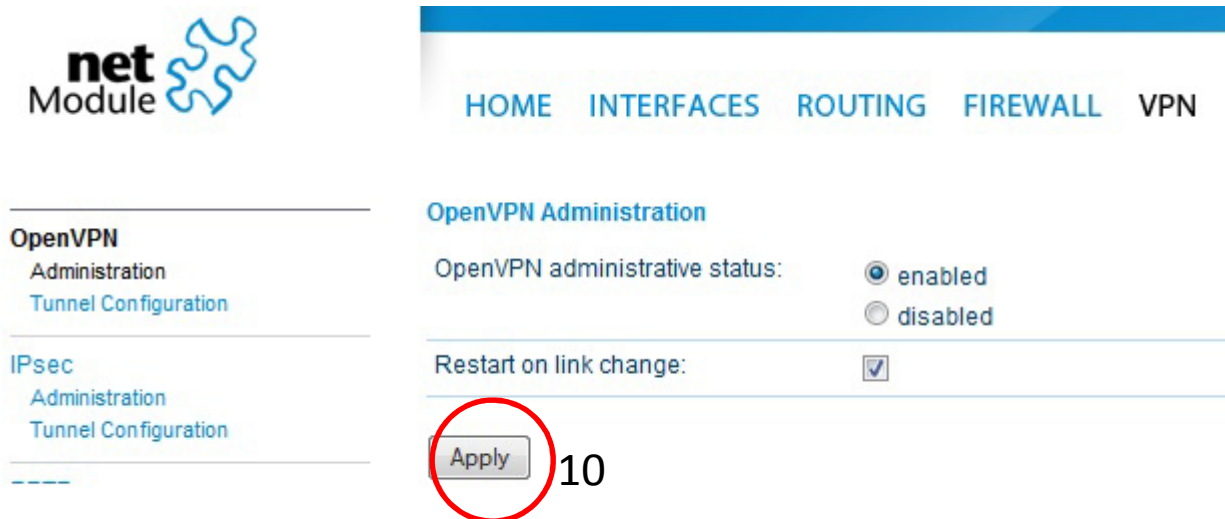
OpenVPN Tunnel 1 Configuration

Operation mode: disabled client standard server expert

Network mode: routed bridged

Expert mode file: Client1.zip

9



net Module

HOME INTERFACES ROUTING FIREWALL VPN

OpenVPN Administration

OpenVPN administrative status: enabled disabled

Restart on link change:

10

Start OpenVPN on server and client