

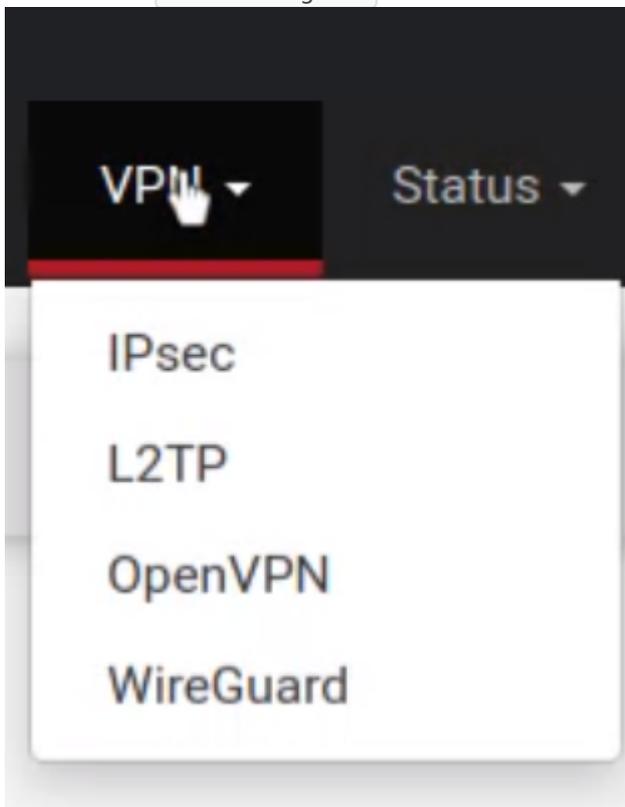
# Configuring PFSense

## Configuring Wireguard

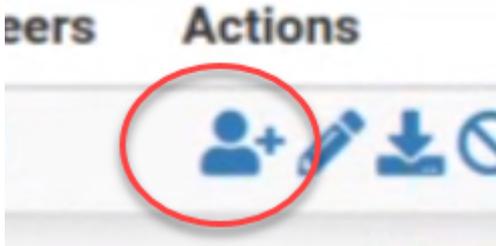
1. Install the package via `System > Package Manager > Wireguard`
2. Browse to `VPN > Wireguard`
3. Add a tunnel
4. Generate a `key pair` (Configuration and Peers to be configured later). The public key from this is needed in [Configuring the Peers](#)
5. Set allowed IPs to be a NetworkID/netmask in CIDR notation ( `192.168.50.0/24` )
6. Add `Firewall > Rules > WAN` to allow 51280 to an IP on PFSense to be routed to Wireguard.
7. Add `Firewall > Rules > Wireguard/Opt` to allow Wireguard traffic to appropriate resources on other network interfaces.

## Configuring Tunnel

1. Browse to `VPN > Wireguard`



2. Click the person+ icon to the right of the tunnel



3. Set a Description, Tunnel (Created in above section), check Dynamic Endpoint, and copy in Public Key from peer. This value comes from the [Configuring the Client](#) page.
4. Set an IP address for the peer, this is unique to the peer and should be the IP/Mask in CIDR notation `192.168.50.3/32`

**Tunnel**  WireGuard tunnel for this peer. (Create a New Tunnel)

**Description**  Peer description for administrative reference (not parsed).

**Dynamic Endpoint**  Dynamic Note: Uncheck this option to assign an endpoint address and port for this peer.

**Keep Alive**  Interval (in seconds) for Keep Alive packets sent to this peer. Default is empty (disabled).

**Public Key**  WireGuard public key for this peer.

**Pre-shared Key**  Optional pre-shared key for this tunnel. (Copy) Generate New Pre-shared Key

**Address Configuration**

**Hint** Allowed IP entries here will be transformed into proper subnet start boundaries prior to validating and saving. These entries must be unique between multiple peers on the same tunnel. Otherwise, traffic to the conflicting networks will only be routed to the last peer in the list.

**Allowed IPs**   IPv4 or IPv6 subnet or host reachable via this peer.  Description for administrative reference (not parsed).

**Add Allowed IP** + Add Allowed IP

Save

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