Site to Site SOP:

Purpose:

The purpose of the is SOP is to allow someone to be able to set up a site to site SOP when needed.

Scope:

The scope of influence will be the entire 2 sites being connected and the more specific being the 2 routers connecting both sites using OpenVPN

Responsibilities:

It is the responsibility of the IT personnel to configure both routers in tandem to avoid any misconfigurations

Prerequisites:

- pfSense router
- Communication with the other person configuring the router
- Ability to send files to the other person configuring the router
- A Dynamic Domain Name Server

Procedure:

- LEAVE THINGS NOT MENTIONED ON DEFAULT (unless you have been instructed otherwise by other personnel)
- The first step is to open log into the GUI of the pfsense using the GUI
- Click on menu > System > Certificates
- Under authorities you will make a certificate authority
- Give it a name
- Method will be create internal certificate
- In common name place the same name you did in the beginning
- Save

- Under certificates

- Click add/sign
- Create internal Certificate
- Give it a descriptive name
- Under common name use the same name
- Under certificate type you will pick "SERVER CERTIFICATE"
- Save

- Menu
- VPN
- OpenVPN
- Under server click add
- Give it a name
- Click peer to peer (shared key)
- Port 1194
- Under peer certificate Authority click the one you created
- Under Server Cert click the Server Cert you created
- Under ipv4 tunnel network put a network that is not already taken
- Under ipv4 remote networks place the network of the remote sites that will need to be routed through the VPN
- Save

- Now go back in to the Server you just created using the little pencil
- Copy the generated key under shared key in its entirety
- Send it to the person setting up the client side

- The client side will do everything listed above except they will unclick auto generate key and paste the key they were sent.

- You can both go to status > OpenVPN
- You will be able to see the VPN connection there with a green check mark

References:

- https://www.comparitech.com/blog/vpn-privacy/openvpn-server-pfsense/
- https://www.wundertech.net/use-duckdns-to-set-up-ddns-on-pfsense/

Definitions:

- VPN - Virtual Private Network

DeRevision History

- Hector Cordova DEC2023