# Installing a secure connection between 2 sites using pfsense and vmware workstation (June, 2019)

**Purpose**

The goal is to create a secure pfsense installation that allows encrypted communication between two locations. A full export XML file of a working production pfsense configuration is available in the Appendix. **Be sure to compare your pfsense config, especially firewall rules, with the XML config in the Appendix.**

<https://www.sparklabs.com/support/kb/article/setting-up-an-openvpn-server-with-pfsense-and-viscosity/>

The link above, was the main source used to setup the original production system. Because our mission use case is unique, this guide contains details that the sparklabs.com guide does not cover.

**Preparation/Assumptions part 1.**

* The host computer is NOT connected to the internet yet and TCP/IP has been disabled. The goal is to reduce, as much as possible, the possibility the host machine could have malware.
* The windows 10 operating system is already installed on the host. **Only one physical NIC is needed.**
* **The preferred method is to start with a fresh windows 10 install (fully updated) that has never been connected to any network.** Updating an air gapped, windows 10 computer is beyond the scope of this document.
* Vmware workstation is installed and fully updated. Offline updates for vmware workstation can be found by searching online for vmware workstation offline update. A free account may need to be created to access the vmware update files.
* Pfsense will be installed as a vmware virtual machine on a windows 10 host physical machine.
* Be sure to obtain the network details for your dedicated public IP address, default gateway and subnet. **DO NOT CONFIGURE DNS.** In order to limit unnecessary network traffic by the pfsense vm, pfsense plugins, and the windows vm, do NOT configure DNS. DNS should never be needed.
* The public IP address of the remote system will also be needed because a firewall rule will be added to allow the remote system to connect to the openvpn port.

A screenshot of a cell phone

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**Disable TCP/IP services of the host machine. Do NOT disable the NIC.**

**A screenshot of a computer

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**Run ipconfig to verify that the only configured networking adapters are the vmware network adapters.**

![A screenshot of a cell phone

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGZsYXNoAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMwNQAAkpIAAgAAAAMwNQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Download pfsense from the internet, gunzip it, and then transfer the iso file to the host computer.**

A screenshot of a cell phone

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Description automatically generated

**Begin the pfsense vm installation.**

A screenshot of a cell phone

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**Pfsense vm install continued.**

A screenshot of a cell phone

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**Pfsense vm install continued.**

A screenshot of a computer screen

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**Pfsense vm install continued.**

A screenshot of a computer screen

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**Pfsense vm install continued.**

A screenshot of a computer screen

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**Pfsense vm install continued. After reboot, power OFF the pfsense vm or shut it down because our networking is not yet configured. At this point the host VM is still air gapped, not on a physical network. WIFI is never used.**

A screenshot of a computer

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**The first network adapter should be set to Bridged mode / Connected directly to the physical network. The second network adapter needs to be Added using the “Add Hardware Wizard”. This is the WAN NIC.**

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**Select VMnet2 for Network Adapter 2. Be sure to give pfsense more CPU/Memory than the default. This is the LAN NIC. As mentioned before, the host VM should be air gapped, not on a physical network.**

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**After starting pfsense the “Welcome to pfsense” console is displayed. Select option 1 to Assign Interfaces. Type n and press enter when asked about VLANS. Follow prompts to configure. Select option 2 to Set interface IP addresses. DHCP is recommended for the LAN.**

**Detailed screenshots can be found on the following websites.**

<https://openschoolsolutions.org/install-pfsense/>

<https://www.tecmint.com/installation-and-configuration-of-pfsense-firewall-router/>

A screenshot of a computer

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**Once the interfaces are configured, you can see the WAN is set to 4.5.6.7 and the LAN is set to 192.168.1.1 Your WAN setting will obviously be different. Never configure DNS. Not configuring DNS will help limit what servers pfsense will be able to connect to. Do NOT connect the physical machine to a network yet.**

A screenshot of a computer screen

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**Note the steps to install the Windows10 VM have been skipped. Also Note the Windows10 VM network adapter should be set to VMnet2, the LAN side of pfsense. Once you get to the point shown above, ensure that the Windows10 VM is connecting to pfsense using HTTPS. Click on DETAILS to allow internet explorer to connect to https://192.168.1.1**

A screenshot of a computer

Description automatically generated

**Click on “Go on to the webpage” to allow internet explorer to connect to https://192.168.1.1**

A screenshot of a computer screen

Description automatically generated

**Login; note the admin username and default password pfsense.**

A screenshot of a computer screen

Description automatically generated

**Skip the wizard for now. Change the admin password by navigating to System->User Manager.**

**A screenshot of a cell phone

Description automatically generated**

**Click the Edit "pencil" image under "Actions".**

**Enter a new password of 15+ characters and click Save at the bottom.**

![A screenshot of a cell phone

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGZsYXNoAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMxNwAAkpIAAgAAAAMxNwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Now is a good time to shut down the pfsense and windows VM and create backups. Note ideally, we would recommend doing an air-gapped update of pfsense, but it appears that pfsense now recommends backing up the config, reinstalling pfsense to the latest version and restoring the config. It seems offline updates are not supported. See** [**https://redmine.pfsense.org/issues/6383**](https://redmine.pfsense.org/issues/6383) **or google for more information.**

**Preparation/Assumptions part 2.**

In addition to the assumptions on page 1, it is assumed that:

* The latest version of pfsense is installed
* Pfsense has been set up with a WAN interface and a LAN interface
* The windows vm has HTTPS connectivity to the LAN interface of pfsense
* The default passwords have been changed
* The installation of pfsense is a fresh install
* For testing, the Viscosity client has been downloaded. Be sure to test the VPN.

**OpenVPN Wizard**

The following steps can be found on this website.

<https://www.sparklabs.com/support/kb/article/setting-up-an-openvpn-server-with-pfsense-and-viscosity/>

or

<https://turbofuture.com/computers/How-to-Setup-a-Remote-Access-VPN-Using-pfSense-and-OpenVPN>

* Click VPN->OpenVPN and click the wizards tab.
* You will be instructed to select an Authenticated Backend Type. Click Next to accept the default of Local User Access.
* Create a new certificate authority CA Certificate. Set the descriptive name to an OPSEC appropriate name.
* Leave the key length at 2048 bit and set the lifetime to 365 days or less.
* The remaining parameters are to identify the org controlling this certificate authority.

A screenshot of a social media post

Description automatically generated

**Image provided for example only. Your certificate lifetime should be 365 days or less. Click Add new CA to move on to the server certificate.**

* Set the descriptive name to server and keep the key length as 2048 bits and lifetime the same as before.
* Click Create new Certificate
* On the next page, in the General OpenVPN Server Information section, set the description to SERVER.
* In the Cryptographic Settings section deselect the TLS Authentication.
* Leave the Encryption Algorithm as AES-256-CBC(256 big key, 128 bit block)
* Note your tunnel network settings or local network settings may differ. See the XML config in this document for a working production example.
* Check the Inter-Client Communication checkbox
* In the Advanced text box add the line:
  + push “route 192.168.1.0 255.255.255.0”; mute 10
  + the above settings may vary
* Do NOT configure DNS.
* Click Next.
* Accept the default firewall rules by checking both firewall rule and openvpn rule boxes and clicking next.
* Click Finish.

“Firewall settings are generated automatically by the wizard. However, depending on your firewall setup and version, you may have to check the setting the wizard has created. First, navigate to Firewall -> Rules and select WAN. You should see a firewall rule permitting IPv4 traffic incoming through the WAN via the OpenVPN port. This will allow clients to connect to the VPN via the external WAN interface. If you are having issues routing traffic through the VPN, navigate to Firewall -> Nat, select Outbound and ensure the Mode is set to "Automatic outbound NAT rule generation. (IPsec passthrough included)". Source:

<https://www.sparklabs.com/support/kb/article/setting-up-an-openvpn-server-with-pfsense-and-viscosity/>

**Client Certificate**

To connect to our OpenVPN server, we need to generate a client certificate for each REMOTE device we want to connect to the server. Note the image below is provided only as an example.

* Click System->User Manager and click the Add button to add a user.
* Fill in the username and password.
* Click the link “Click to create a user certificate”.
* Leave default values.
* Click save.

A screenshot of a cell phone

Description automatically generated

**Note the image above is provided only as an example.**

**A screenshot of a cell phone

Description automatically generated**

**pfSense provides an OpenVPN Client Export Package that you can use to create a Viscosity connection without directly dealing with any certificates or keys.**

* To export the Viscosity client export package, click System->Package Manager and click on the Available Packages tab. This will show a list of all the packages you can install.
* Scroll down to find the 'openvpn-client-export' and click on the “Install” button.
* When the installation completes, export a configuration by clicking VPN->OpenVPN and click on the Client Export tab.
* Select the server in the Remote Access Server section. Keep the default values for the other parameters.
* Scroll down to the OpenVPN Clients section and find the row corresponding to the Certificate Name of the user you created (client1).
* Download the Viscosity configuration by clicking on 'Viscosity Bundle'. This will download a zip of the configuration file to your client device.
* **IMPORTANT. Securely transfer this zip file to the remote system.**
* Unzip this archive on the remove system to find the 'Viscosity.visc' file. This file can be imported into Viscosity.

A screenshot of a cell phone

Description automatically generated

**Setting Up Viscosity**

<https://www.sparklabs.com/viscosity/>

<http://www.sparklabs.com/support/kb/article/getting-started-with-viscosity-windows/>

* If you do not have Viscosity already running, start Viscosity now. **In the Windows version you will see the Viscosity icon appear in the system tray.** Click the Viscosity icon in the Windows system tray and select Preferences.
* Click on the '+' button and select Import Connection > From File...:
* Navigate to the location of the Viscosity configuration file and open it. You will see a pop up message to indicate that the connection has been imported.

Visit

<http://www.sparklabs.com/support/kb/article/getting-started-with-viscosity-windows/>

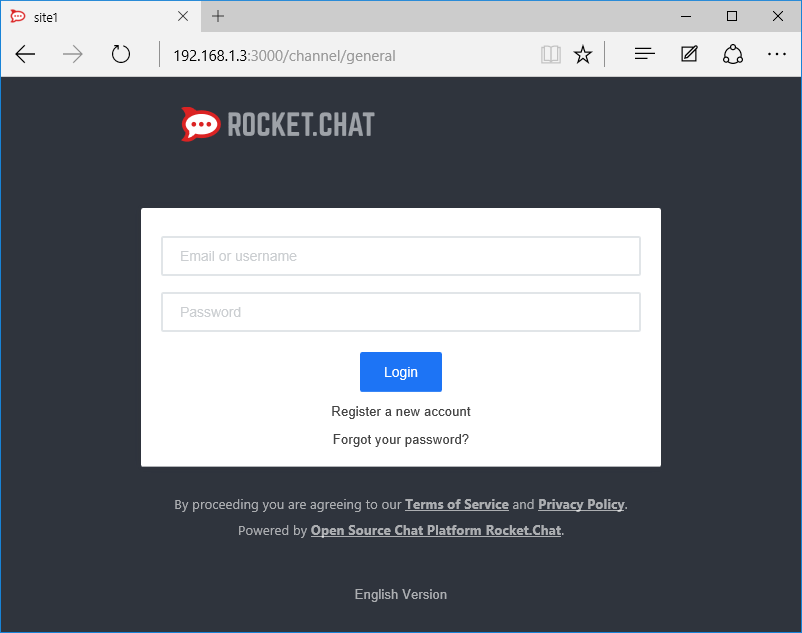
or

<https://www.sparklabs.com/support/kb/article/setting-up-an-openvpn-server-with-pfsense-and-viscosity/>

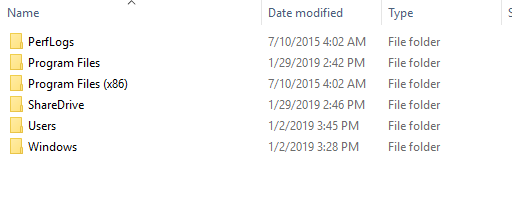
for detailed instructions.

**Be sure to compare your pfsense config, especially firewall rules, with the XML config in the Appendix.**

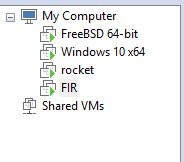
**Appendix**

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**RocketChat installation instructions are not included. Simply create a new virtual machine and install rocketchat per rocketchat setup instructions.**

****

**Above is a screenshot of the share drive folder used to transfer files from remote to the windows 10 VM.**

****

**Above is a screenshot of the vmware production setup. Windows 10, rocket, and FIR were on the LAN side of pfsense (FreeBSD)**

**Be sure to compare your pfsense config, especially firewall rules, with the XML config below.**

**This is a backup a working production pfsense configuration. Some fields are redacted. If needed, backup your pfsense config and compare the xml.**

<?xml version="1.0"?>

<pfsense>

<version>18.9</version>

<lastchange></lastchange>

<system>

<optimization>normal</optimization>

<hostname>pfs-us</hostname>

<domain>localdomain</domain>

<dnsallowoverride>on</dnsallowoverride>

<group>

<name>all</name>

<description><![CDATA[All Users]]></description>

<scope>system</scope>

<gid>1998</gid>

</group>

<group>

<name>admins</name>

<description><![CDATA[System Administrators]]></description>

<scope>system</scope>

<gid>1999</gid>

<member>0</member>

<priv>page-all</priv>

</group>

<user>

<scope>user</scope>

<bcrypt-hash>...REDACTED...</bcrypt-hash>

<descr><![CDATA[FR\_NET]]></descr>

<name>FR\_NET</name>

<expires></expires>

<dashboardcolumns>2</dashboardcolumns>

<authorizedkeys></authorizedkeys>

<ipsecpsk></ipsecpsk>

<webguicss>pfSense.css</webguicss>

<uid>2003</uid>

<cert>5c35a9974202b</cert>

</user>

<user>

<name>admin</name>

<descr><![CDATA[System Administrator]]></descr>

<scope>system</scope>

<groupname>admins</groupname>

<bcrypt-hash>...REDACTED...</bcrypt-hash>

<uid>0</uid>

<priv>user-shell-access</priv>

</user>

<user>

<scope>user</scope>

<bcrypt-hash>...REDACTED...</bcrypt-hash>

<descr></descr>

<name>bob</name>

<expires></expires>

<dashboardcolumns>2</dashboardcolumns>

<authorizedkeys></authorizedkeys>

<ipsecpsk></ipsecpsk>

<webguicss>pfSense.css</webguicss>

<uid>2002</uid>

<cert>5c35a5b41702b</cert>

</user>

<user>

<scope>user</scope>

<bcrypt-hash>...REDACTED...</bcrypt-hash>

<descr></descr>

<name>pewpew</name>

<expires>04/01/2019</expires>

<dashboardcolumns>2</dashboardcolumns>

<authorizedkeys></authorizedkeys>

<ipsecpsk></ipsecpsk>

<webguicss>pfSense.css</webguicss>

<cert>5c2e6d6429daf</cert>

<uid>2001</uid>

<disabled></disabled>

</user>

<nextuid>2004</nextuid>

<nextgid>2000</nextgid>

<timeservers>0.pfsense.pool.ntp.org</timeservers>

<webgui>

<protocol>http</protocol>

<loginautocomplete></loginautocomplete>

<ssl-certref>5c2e4b1e9af63</ssl-certref>

<dashboardcolumns>2</dashboardcolumns>

<port></port>

<max\_procs>2</max\_procs>

</webgui>

<disablenatreflection>yes</disablenatreflection>

<disablesegmentationoffloading></disablesegmentationoffloading>

<disablelargereceiveoffloading></disablelargereceiveoffloading>

<ipv6allow></ipv6allow>

<maximumtableentries>400000</maximumtableentries>

<powerd\_ac\_mode>hadp</powerd\_ac\_mode>

<powerd\_battery\_mode>hadp</powerd\_battery\_mode>

<powerd\_normal\_mode>hadp</powerd\_normal\_mode>

<bogons>

<interval>monthly</interval>

</bogons>

<already\_run\_config\_upgrade></already\_run\_config\_upgrade>

<timezone>Etc/UTC</timezone>

<ssh></ssh>

<serialspeed>115200</serialspeed>

<primaryconsole>serial</primaryconsole>

<sshguard\_threshold></sshguard\_threshold>

<sshguard\_blocktime></sshguard\_blocktime>

<sshguard\_detection\_time></sshguard\_detection\_time>

<sshguard\_whitelist></sshguard\_whitelist>

</system>

<interfaces>

<wan>

<enable></enable>

<if>em0</if>

<ipaddr>4.5.6.7</ipaddr>

<ipaddrv6></ipaddrv6>

<subnet>27</subnet>

<gateway>GW\_WAN</gateway>

<blockpriv>on</blockpriv>

<blockbogons>on</blockbogons>

<media></media>

<mediaopt></mediaopt>

<dhcp6-duid></dhcp6-duid>

<dhcp6-ia-pd-len>0</dhcp6-ia-pd-len>

<subnetv6></subnetv6>

<gatewayv6></gatewayv6>

</wan>

<lan>

<enable></enable>

<if>em1</if>

<ipaddr>192.168.1.1</ipaddr>

<subnet>24</subnet>

<ipaddrv6>track6</ipaddrv6>

<subnetv6>64</subnetv6>

<media></media>

<mediaopt></mediaopt>

<track6-interface>wan</track6-interface>

<track6-prefix-id>0</track6-prefix-id>

</lan>

</interfaces>

<staticroutes></staticroutes>

<dhcpd>

<lan>

<enable></enable>

<range>

<from>192.168.1.10</from>

<to>192.168.1.245</to>

</range>

</lan>

</dhcpd>

<dhcpdv6>

<lan>

<enable></enable>

<range>

<from>::1000</from>

<to>::2000</to>

</range>

<ramode>assist</ramode>

<rapriority>medium</rapriority>

</lan>

</dhcpdv6>

<snmpd>

<syslocation></syslocation>

<syscontact></syscontact>

<rocommunity>public</rocommunity>

</snmpd>

<diag>

<ipv6nat>

<ipaddr></ipaddr>

</ipv6nat>

</diag>

<syslog>

<filterdescriptions>1</filterdescriptions>

</syslog>

<nat>

<outbound>

<mode>automatic</mode>

</outbound>

</nat>

<filter>

<rule>

<id></id>

<tracker>1546586732</tracker>

<type>pass</type>

<interface>wan</interface>

<ipprotocol>inet</ipprotocol>

<tag></tag>

<tagged></tagged>

<max></max>

<max-src-nodes></max-src-nodes>

<max-src-conn></max-src-conn>

<max-src-states></max-src-states>

<statetimeout></statetimeout>

<statetype><![CDATA[keep state]]></statetype>

<os></os>

<protocol>tcp</protocol>

<source>

<address>111.222.333.444</address>

</source>

<destination>

<network>wanip</network>

<port>7331</port>

</destination>

<log></log>

<descr><![CDATA[OpenVPN sup-tun wizard]]></descr>

<created>

<time>1546586732</time>

<username>admin@192.168.1.2 (Local Database)</username>

</created>

<updated>

<time>1548773609</time>

<username>admin@192.168.1.2 (Local Database)</username>

</updated>

<disabled></disabled>

</rule>

<rule>

<id></id>

<tracker>1546548871</tracker>

<type>pass</type>

<interface>wan</interface>

<ipprotocol>inet</ipprotocol>

<tag></tag>

<tagged></tagged>

<max></max>

<max-src-nodes></max-src-nodes>

<max-src-conn></max-src-conn>

<max-src-states></max-src-states>

<statetimeout></statetimeout>

<statetype><![CDATA[keep state]]></statetype>

<os></os>

<protocol>tcp</protocol>

<source>

<address>111.222.333.444</address>

</source>

<destination>

<network>(self)</network>

<port>22</port>

</destination>

<log></log>

<descr></descr>

<updated>

<time>1546548871</time>

<username>admin@192.168.1.2 (Local Database)</username>

</updated>

<created>

<time>1546548871</time>

<username>admin@192.168.1.2 (Local Database)</username>

</created>

<disabled></disabled>

</rule>

<rule>

<id></id>

<tracker>1546539004</tracker>

<type>pass</type>

<interface>wan</interface>

<ipprotocol>inet</ipprotocol>

<tag></tag>

<tagged></tagged>

<max></max>

<max-src-nodes></max-src-nodes>

<max-src-conn></max-src-conn>

<max-src-states></max-src-states>

<statetimeout></statetimeout>

<statetype><![CDATA[keep state]]></statetype>

<os></os>

<protocol>tcp</protocol>

<source>

<address>111.222.333.444</address>

</source>

<destination>

<network>wanip</network>

<port>7331</port>

</destination>

<log></log>

<descr><![CDATA[OpenVPN sup-tun wizard]]></descr>

<created>

<time>1546539004</time>

<username>OpenVPN Wizard</username>

</created>

<updated>

<time>1546549778</time>

<username>admin@192.168.1.2 (Local Database)</username>

</updated>

<disabled></disabled>

</rule>

<rule>

<type>pass</type>

<ipprotocol>inet</ipprotocol>

<descr><![CDATA[Default allow LAN to any rule]]></descr>

<interface>lan</interface>

<tracker>0100000101</tracker>

<source>

<network>lan</network>

</source>

<destination>

<any></any>

</destination>

</rule>

<rule>

<type>pass</type>

<ipprotocol>inet6</ipprotocol>

<descr><![CDATA[Default allow LAN IPv6 to any rule]]></descr>

<interface>lan</interface>

<tracker>0100000102</tracker>

<source>

<network>lan</network>

</source>

<destination>

<any></any>

</destination>

</rule>

<rule>

<id></id>

<tracker>1546539005</tracker>

<type>pass</type>

<interface>openvpn</interface>

<ipprotocol>inet</ipprotocol>

<tag></tag>

<tagged></tagged>

<max></max>

<max-src-nodes></max-src-nodes>

<max-src-conn></max-src-conn>

<max-src-states></max-src-states>

<statetimeout></statetimeout>

<statetype><![CDATA[keep state]]></statetype>

<os></os>

<source>

<any></any>

</source>

<destination>

<any></any>

</destination>

<log></log>

<descr><![CDATA[OpenVPN sup-tun wizard]]></descr>

<created>

<time>1546539004</time>

<username>OpenVPN Wizard</username>

</created>

<updated>

<time>1546539717</time>

<username>admin@192.168.1.2 (Local Database)</username>

</updated>

</rule>

<separator>

<wan></wan>

<openvpn></openvpn>

<lan></lan>

</separator>

</filter>

<shaper></shaper>

<ipsec></ipsec>

<aliases></aliases>

<proxyarp></proxyarp>

<cron>

<item>

<minute>1,31</minute>

<hour>0-5</hour>

<mday>\*</mday>

<month>\*</month>

<wday>\*</wday>

<who>root</who>

<command>/usr/bin/nice -n20 adjkerntz -a</command>

</item>

<item>

<minute>1</minute>

<hour>3</hour>

<mday>1</mday>

<month>\*</month>

<wday>\*</wday>

<who>root</who>

<command>/usr/bin/nice -n20 /etc/rc.update\_bogons.sh</command>

</item>

<item>

<minute>\*/60</minute>

<hour>\*</hour>

<mday>\*</mday>

<month>\*</month>

<wday>\*</wday>

<who>root</who>

<command>/usr/bin/nice -n20 /usr/local/sbin/expiretable -v -t 3600 sshguard</command>

</item>

<item>

<minute>\*/60</minute>

<hour>\*</hour>

<mday>\*</mday>

<month>\*</month>

<wday>\*</wday>

<who>root</who>

<command>/usr/bin/nice -n20 /usr/local/sbin/expiretable -v -t 3600 webConfiguratorlockout</command>

</item>

<item>

<minute>1</minute>

<hour>1</hour>

<mday>\*</mday>

<month>\*</month>

<wday>\*</wday>

<who>root</who>

<command>/usr/bin/nice -n20 /etc/rc.dyndns.update</command>

</item>

<item>

<minute>\*/60</minute>

<hour>\*</hour>

<mday>\*</mday>

<month>\*</month>

<wday>\*</wday>

<who>root</who>

<command>/usr/bin/nice -n20 /usr/local/sbin/expiretable -v -t 3600 virusprot</command>

</item>

<item>

<minute>30</minute>

<hour>12</hour>

<mday>\*</mday>

<month>\*</month>

<wday>\*</wday>

<who>root</who>

<command>/usr/bin/nice -n20 /etc/rc.update\_urltables</command>

</item>

<item>

<minute>1</minute>

<hour>0</hour>

<mday>\*</mday>

<month>\*</month>

<wday>\*</wday>

<who>root</who>

<command>/usr/bin/nice -n20 /etc/rc.update\_pkg\_metadata</command>

</item>

</cron>

<wol></wol>

<rrd>

<enable></enable>

</rrd>

<load\_balancer>

<monitor\_type>

<name>ICMP</name>

<type>icmp</type>

<descr><![CDATA[ICMP]]></descr>

<options></options>

</monitor\_type>

<monitor\_type>

<name>TCP</name>

<type>tcp</type>

<descr><![CDATA[Generic TCP]]></descr>

<options></options>

</monitor\_type>

<monitor\_type>

<name>HTTP</name>

<type>http</type>

<descr><![CDATA[Generic HTTP]]></descr>

<options>

<path>/</path>

<host></host>

<code>200</code>

</options>

</monitor\_type>

<monitor\_type>

<name>HTTPS</name>

<type>https</type>

<descr><![CDATA[Generic HTTPS]]></descr>

<options>

<path>/</path>

<host></host>

<code>200</code>

</options>

</monitor\_type>

<monitor\_type>

<name>SMTP</name>

<type>send</type>

<descr><![CDATA[Generic SMTP]]></descr>

<options>

<send></send>

<expect>220 \*</expect>

</options>

</monitor\_type>

</load\_balancer>

<widgets>

<sequence>system\_information:col1:show,netgate\_services\_and\_support:col2:show,interfaces:col2:show</sequence>

<period>10</period>

</widgets>

<openvpn>

<openvpn-server>

<vpnid>1</vpnid>

<mode>server\_tls</mode>

<protocol>TCP4</protocol>

<dev\_mode>tun</dev\_mode>

<interface>wan</interface>

<ipaddr></ipaddr>

<local\_port>7331</local\_port>

<description><![CDATA[sup-tun]]></description>

<custom\_options>push &quot;route 192.168.1.0 255.255.255.0&quot;</custom\_options>

<tls>...REDACTED...</tls>

<tls\_type>auth</tls\_type>

<caref>5c2e4ffcae253</caref>

<crlref></crlref>

<certref>5c2e4ffcc1252</certref>

<dh\_length>2048</dh\_length>

<ecdh\_curve>none</ecdh\_curve>

<cert\_depth>1</cert\_depth>

<crypto>AES-256-CBC</crypto>

<digest>SHA256</digest>

<engine>none</engine>

<tunnel\_network>10.1.0.0/24</tunnel\_network>

<tunnel\_networkv6></tunnel\_networkv6>

<remote\_network></remote\_network>

<remote\_networkv6></remote\_networkv6>

<gwredir>yes</gwredir>

<gwredir6></gwredir6>

<local\_network>192.168.1.0/24</local\_network>

<local\_networkv6></local\_networkv6>

<maxclients>8</maxclients>

<compression></compression>

<compression\_push></compression\_push>

<passtos></passtos>

<client2client></client2client>

<dynamic\_ip>yes</dynamic\_ip>

<topology>subnet</topology>

<serverbridge\_dhcp></serverbridge\_dhcp>

<serverbridge\_interface>none</serverbridge\_interface>

<serverbridge\_routegateway></serverbridge\_routegateway>

<serverbridge\_dhcp\_start></serverbridge\_dhcp\_start>

<serverbridge\_dhcp\_end></serverbridge\_dhcp\_end>

<sndrcvbuf></sndrcvbuf>

<netbios\_enable></netbios\_enable>

<netbios\_ntype>0</netbios\_ntype>

<netbios\_scope></netbios\_scope>

<create\_gw>both</create\_gw>

<verbosity\_level>1</verbosity\_level>

<duplicate\_cn></duplicate\_cn>

<ncp-ciphers>AES-256-CBC</ncp-ciphers>

<ncp\_enable>enabled</ncp\_enable>

</openvpn-server>

</openvpn>

<dnshaper></dnshaper>

<unbound>

<enable></enable>

<dnssec></dnssec>

<active\_interface></active\_interface>

<outgoing\_interface></outgoing\_interface>

<custom\_options></custom\_options>

<hideidentity></hideidentity>

<hideversion></hideversion>

<dnssecstripped></dnssecstripped>

</unbound>

<revision>

<time>1560261052</time>

<description><![CDATA[admin@192.168.1.2 (Local Database): Backup invoked via Auto Config Backup.]]></description>

<username>admin@192.168.1.2 (Local Database)</username>

</revision>

<cert>

<refid>5c2e4b1e9af63</refid>

<descr><![CDATA[webConfigurator default (5c2e4b1e9af63)]]></descr>

<type>server</type>

<crt>...REDACTED...</crt>

<prv>...REDACTED...</prv>

</cert>

<cert>

<refid>5c2e4ffcc1252</refid>

<descr><![CDATA[new-cert]]></descr>

<type>server</type>

<caref>5c2e4ffcae253</caref>

<crt>...REDACTED...</crt>

<prv>...REDACTED...</prv>

</cert>

<cert>

<refid>5c2e50504d173</refid>

<descr><![CDATA[new-cert]]></descr>

<type>server</type>

<caref>5c2e50503cbd1</caref>

<crt>...REDACTED...</crt>

<prv>...REDACTED...</prv>

</cert>

<cert>

<refid>5c2e51f174b2d</refid>

<descr><![CDATA[tech-cert]]></descr>

<type>user</type>

<caref>5c2e4ffcae253</caref>

<crt>...REDACTED...</crt>

<prv>...REDACTED...</prv>

</cert>

<cert>

<refid>5c2e6d6429daf</refid>

<descr><![CDATA[pewpew-cert]]></descr>

<type>user</type>

<caref>5c2e4ffcae253</caref>

<crt>...REDACTED...</crt>

<prv>...REDACTED...</prv>

</cert>

<cert>

<refid>5c35a5b41702b</refid>

<descr><![CDATA[bob]]></descr>

<type>user</type>

<caref>5c2e4ffcae253</caref>

<crt>...REDACTED...</crt>

<prv>...REDACTED...</prv>

</cert>

<cert>

<refid>5c35a9974202b</refid>

<descr><![CDATA[FR\_NET]]></descr>

<type>user</type>

<caref>5c2e4ffcae253</caref>

<crt>...REDACTED...</crt>

<prv>...REDACTED...</prv>

</cert>

<gateways>

<gateway\_item>

<interface>wan</interface>

<gateway>4.5.6.1</gateway>

<name>GW\_WAN</name>

<weight>1</weight>

<ipprotocol>inet</ipprotocol>

<interval></interval>

<descr><![CDATA[Interface wan Gateway]]></descr>

</gateway\_item>

<defaultgw4>GW\_WAN</defaultgw4>

</gateways>

<ppps></ppps>

<installedpackages>

<package>

<name>OpenVPN Client Export Utility</name>

<internal\_name>openvpn-client-export</internal\_name>

<descr><![CDATA[Allows a pre-configured OpenVPN Windows Client or Mac OS X's Viscosity configuration bundle to be exported directly from pfSense.]]></descr>

<version>1.4.18</version>

<configurationfile>openvpn-client-export.xml</configurationfile>

<tabs>

<tab>

<name>Client Export</name>

<tabgroup>OpenVPN</tabgroup>

<url>/vpn\_openvpn\_export.php</url>

</tab>

<tab>

<name>Shared Key Export</name>

<tabgroup>OpenVPN</tabgroup>

<url>/vpn\_openvpn\_export\_shared.php</url>

</tab>

</tabs>

<include\_file>/usr/local/pkg/openvpn-client-export.inc</include\_file>

</package>

</installedpackages>

<ovpnserver>

<step1>

<type>local</type>

</step1>

<step6>

<certca><![CDATA[WR-CA]]></certca>

<keylength>2048</keylength>

<lifetime>90</lifetime>

<uselist>on</uselist>

</step6>

<step9>

<certname><![CDATA[new-cert]]></certname>

<keylength>2048</keylength>

<lifetime>90</lifetime>

<uselist>on</uselist>

</step9>

<step10>

<interface>wan</interface>

<protocol>TCP4</protocol>

<localport>7331</localport>

<descr><![CDATA[sup-tun]]></descr>

<tlsauth>on</tlsauth>

<gentlskey>on</gentlskey>

<dhkey>2048</dhkey>

<crypto>AES-256-CBC</crypto>

<digest>SHA256</digest>

<engine>none</engine>

<tunnelnet>10.1.0.0/24</tunnelnet>

<rdrgw>on</rdrgw>

<localnet>192.168.1.0/24</localnet>

<dynip>on</dynip>

<topology>subnet</topology>

<nbttype>0</nbttype>

<advanced>push &quot;route 192.168.1.0 255.255.255.0&quot;</advanced>

</step10>

<step11>

<ovpnrule>on</ovpnrule>

<ovpnallow>on</ovpnallow>

</step11>

</ovpnserver>

<ca>

<refid>5c2e4ffcae253</refid>

<descr><![CDATA[WR-CA]]></descr>

<crt>...REDACTED...</crt>

<prv>...REDACTED...</prv>

<serial>5</serial>

</ca>

<ca>

<refid>5c2e50503cbd1</refid>

<descr><![CDATA[WR-CA]]></descr>

<crt>...REDACTED...</crt>

<prv>...REDACTED...</prv>

<serial>1</serial>

</ca>

</pfsense>

**This above xml is a backup of a working production pfsense configuration. Some fields are redacted. If needed, backup your pfsense config and compare the xml.**