

How To Multi-Hop SSH into FreeNAS

<https://forums.freenas.org/index.php?threads/howto-multi-hop-ssh-into-freenas.38242/>

Since a FreeNAS server is meant to be run behind the firewall of the router, you have two options to gain access to the server and/or its WebGUI remotely, either a VPN or a multi-hop SSH

A Multi-Hop SSH is a SSH tunnel over **WAN** to the router, with a second SSH tunnel through it to FreeNAS over **LAN**

- Remote device -> **WAN SSH** -> Router -> [multi-hop begins] -> **LAN SSH** -> FreeNAS

Utilizing PuTTY, the router & client profiles below will be required:

- SFTP via **pscp.exe** in the PuTTY root directory
 - Add **C:\Program Files (x86)\PuTTY** to your environment path to allow access to **pscp** from any PowerShell/command prompt
 - **System - Advanced System Settings - Environment Variables - System Variables – Path**

JuiceSSH [Android] automates the multi-hop by setting **Connection - Advanced Settings - Connect Via** to Router's Remote SSH connection

Router (your.ddns.com)

- **Edit Lines:**
 - (5) "HostName"="your.ddns.com"
 - (6) "LogFileName"="C:\\Path\\To\\PuTTY\\Logs\\SSH.OpenWRT.Remote.log"
 - Log set to "All Session Output" [Session - Logging]
 - (15) "PortNumber"=dword:00000016
 - Hex value for SSH Port # ([hex] 00000016 = [dec] 22)
 - Windows Calculator has a "Programmer" mode with hex <-> dec
 - (58) "PublicKeyFile"="C:\\Path\\To\\PuTTY\\SSHkeys\\OpenWRT.SSH.ppk"

Windows Registry Editor Version 5.00

[HKEY_CURRENT_USER\\Software\\SimonTatham\\PuTTY\\Sessions\\SSH.OpenWRT.Remote]

"Present"=dword:00000001

"HostName"="your.ddns.com"

"LogFileName"="C:\\Path\\To\\PuTTY\\Logs\\SSH.OpenWRT.Remote.log"

"LogType"=dword:00000002

"LogFileClash"=dword:00000000

"LogFlush"=dword:00000000

"SSHLogOmitPasswords"=dword:00000000

1

"SSHLogOmitData"=dword:00000000

"Protocol"="ssh"

"PortNumber"=dword:00000016

"CloseOnExit"=dword:00000001

"WarnOnClose"=dword:00000001

"PingInterval"=dword:00000000

"PingIntervalSecs"=dword:00000000

"TCPNoDelay"=dword:00000001

"TCPKeepalives"=dword:00000000

"TerminalType"="xterm"

"TerminalSpeed"="38400,38400"

"TerminalModes"="CS7=A,CS8=A,DISCARD=A,DSUSP=A,ECHO=A,ECHOCTL=A,ECHOE=A,ECHOK=A,ECHOK=A,ECHONL=A,EOF=A,EOL=A,EOL2=A,ERASE=A,FLUSH=A,ICANON=A,ICRNL=A,IEXTEN=A,IGNCR=A,IGNP=AR=A,IMAXBEL=A,INLCR=A,INPCK=A,INTR=A,ISIG=A,ISTRIP=A,IUCLC=A,IXANY=A,IXOFF=A,IXON=A,KILL=A,LNEXT=A,NOFLSH=A,OCRNL=A,OLCUC=A,ONLCR=A,ONLRET=A,ONOCR=A,OPOST=A,PARENB=A,PARMRK=A,PARODD=A,PENDIN=A,QUIT=A,REPRINT=A,START=A,STATUS=A,STOP=A,SUSP=A,SWTCH=A,TOSTOP=A,WERASE=A,XCASE=A"

"AddressFamily"=dword:00000000

"ProxyExcludeList"=""

"ProxyDNS"=dword:00000001

"ProxyLocalhost"=dword:00000000

"ProxyMethod"=dword:00000005

"ProxyHost"=""

"ProxyPort"=dword:00000000

"ProxyUsername"=""

"ProxyPassword"=""

"ProxyTelnetCommand"="connect %host %port\\n"

"Environment"=""

"UserName"="root"

"UserNameFromEnvironment"=dword:00000000

"LocalUserName"=""

"NoPTY"=dword:00000000

"Compression"=dword:00000000

"TryAgent"=dword:00000001

"AgentFwd"=dword:00000000

"GssapiFwd"=dword:00000000

"ChangeUsername"=dword:00000000

"Cipher"="aes,3des,blowfish,WARN,arcfour,des"

"KEX"="dh-gex-sha1,dh-group14-sha1,dh-group1-sha1,rsa,WARN"

"RekeyTime"=dword:0000003c

"RekeyBytes"="1G"

"SshNoAuth"=dword:00000000

"SshBanner"=dword:00000001

"AuthTIS"=dword:00000000

"AuthK1"=dword:00000001

"AuthGSSAPI"=dword:00000001

"GSSLibs"="gssapi32,sspi,custom"

"GSSCustom"=""

"SshNoShell"=dword:00000000

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```
"SshProt"=dword:00000003
"LogHost"=""
"SSH2DES"=dword:00000000
"PublicKeyFile"="C:\\Path\\To\\PuTTY\\SSH
Hkeys\\OpenWRT.SSH.ppk "
"RemoteCommand"=""
"RFCEnviron"=dword:00000000
"PassiveTelnet"=dword:00000000
"BackspaceIsDelete"=dword:00000001
"RXVTHomeEnd"=dword:00000000
"LinuxFunctionKeys"=dword:00000000
"NoApplicationKeys"=dword:00000000
"NoApplicationCursors"=dword:00000000
"NoMouseReporting"=dword:00000000
"NoRemoteResize"=dword:00000000
"NoAltScreen"=dword:00000000
"NoRemoteWinTitle"=dword:00000000
"RemoteQTitleAction"=dword:00000001
"NoDBBackspace"=dword:00000000
"NoRemoteCharset"=dword:00000000
"ApplicationCursorKeys"=dword:00000000
0
"ApplicationKeypad"=dword:00000000
"NetHackKeypad"=dword:00000000
"AltF4"=dword:00000001
"AltSpace"=dword:00000001
"AltOnly"=dword:00000000
"ComposeKey"=dword:00000000
"CtrlAltKeys"=dword:00000001
"TelnetKey"=dword:00000000
"TelnetRet"=dword:00000001
"LocalEcho"=dword:00000002
"LocalEdit"=dword:00000002
"Answerback"="PuTTY"
"AlwaysOnTop"=dword:00000000
"FullScreenOnAltEnter"=dword:00000000
"HideMousePtr"=dword:00000000
"SunkenEdge"=dword:00000000
"WindowBorder"=dword:00000005
"CurType"=dword:00000001
"BlinkCur"=dword:00000001
"Beep"=dword:00000001
"BeepInd"=dword:00000000
"BellWaveFile"=""
```

```
"BellOverload"=dword:00000001
"BellOverloadN"=dword:00000005
"BellOverloadT"=dword:000007d0
"BellOverloadS"=dword:00001388
"ScrollbarLines"=dword:00002710
"DECOriGinMode"=dword:00000000
"AutoWrapMode"=dword:00000001
"LFImpliesCR"=dword:00000000
"CRImpliesLF"=dword:00000000
"DisableArabicShaping"=dword:00000000
"DisableBidi"=dword:00000000
"WinNameAlways"=dword:00000001
"WinTitle"="Secure Shell - FreeNAS
(Remote)"
"TermWidth"=dword:00000077
"TermHeight"=dword:00000028
"Font"="Lucida Console"
"FontIsBold"=dword:00000000
"FontCharSet"=dword:00000000
"FontHeight"=dword:0000000a
"FontQuality"=dword:00000003
"FontVTMode"=dword:00000004
"UseSystemColours"=dword:00000000
"TryPalette"=dword:00000000
"ANSIColour"=dword:00000001
"Xterm256Colour"=dword:00000001
"BoldAsColour"=dword:00000002
"Colour0"="175,175,175"
"Colour1"="255,125,0"
"Colour2"="25,25,25"
"Colour3"="20,20,20"
"Colour4"="0,163,255"
"Colour5"="0,163,255"
"Colour6"="0,0,0"
"Colour7"="85,85,85"
"Colour8"="187,0,0"
"Colour9"="255,85,85"
"Colour10"="0,187,0"
"Colour11"="85,255,85"
"Colour12"="187,187,0"
"Colour13"="255,255,85"
"Colour14"="0,163,255"
"Colour15"="0,100,255"
"Colour16"="187,0,187"
```

```
"Colour17"="255,85,255"  
"Colour18"="0,187,187"  
"Colour19"="85,255,255"  
"Colour20"="187,187,187"  
"Colour21"="255,255,255"  
"RawCNP"=dword:00000000  
"PasteRTF"=dword:00000000  
"MouselsXterm"=dword:00000000  
"RectSelect"=dword:00000000  
"MouseOverride"=dword:00000001  
"Wordness0"="0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,  
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0"  
"Wordness32"="0,1,2,1,1,1,1,1,1,1,1,1,1,2  
,2,2,2,2,2,2,2,2,2,2,1,1,1,1,1"  
"Wordness64"="1,2,2,2,2,2,2,2,2,2,2,2,2,2  
,2,2,2,2,2,2,2,2,2,2,2,2,1,1,1,2"  
"Wordness96"="1,2,2,2,2,2,2,2,2,2,2,2,2,2  
,2,2,2,2,2,2,2,2,2,2,2,2,2,1,1,1,1"  
"Wordness128"="1,1,1,1,1,1,1,1,1,1,1,1,1,1,  
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1"  
"Wordness160"="1,1,1,1,1,1,1,1,1,1,1,1,1,1,  
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1"  
"Wordness192"="2,2,2,2,2,2,2,2,2,2,2,2,2,2,  
2,2,2,2,2,2,2,2,2,2,1,2,2,2,2,2,2,2"  
"Wordness224"="2,2,2,2,2,2,2,2,2,2,2,2,2,2,  
2,2,2,2,2,2,2,2,2,2,1,2,2,2,2,2,2,2"  
"LineCodePage"="UTF-8"  
"CJKAmbigWide"=dword:00000000  
"UTF8Override"=dword:00000001  
"Printer"=""  
"CapsLockCyr"=dword:00000000  
"ScrollBar"=dword:00000000  
"ScrollBarFullScreen"=dword:00000000  
"ScrollOnKey"=dword:00000000  
"ScrollOnDisp"=dword:00000001  
"EraseToScrollbar"=dword:00000001  
"LockSize"=dword:00000000  
"BCE"=dword:00000001  
"BlinkText"=dword:00000000  
"X11Forward"=dword:00000000  
"X11Display"=""  
"X11AuthType"=dword:00000001  
"X11AuthFile"=""  
"LocalPortAcceptAll"=dword:00000000
```

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<https://forums.freenas.org/index.php?threads/howto-multi-hop-ssh-into-freenas.38242/>

| | | |
|--------------------------------------|--------------------------------------|--|
| "RemotePortAcceptAll"=dword:00000000 | "LoginShell"=dword:00000001 | "ShadowBold"=dword:00000000 |
| "PortForwardings"="" | "ScrollbarOnLeft"=dword:00000000 | "ShadowBoldOffset"=dword:00000001 |
| "BugIgnore1"=dword:00000000 | "BoldFont"="" | "SerialLine"="COM1" |
| "BugPlainPW1"=dword:00000000 | "BoldFontIsBold"=dword:00000000 | "SerialSpeed"=dword:00002580 |
| "BugRSA1"=dword:00000000 | "BoldFontCharSet"=dword:00000000 | "SerialDataBits"=dword:00000008 |
| "BugIgnore2"=dword:00000000 | "BoldFontHeight"=dword:00000000 | "SerialStopHalfbits"=dword:00000002 |
| "BugHMAC2"=dword:00000000 | "WideFont"="" | "SerialParity"=dword:00000000 |
| "BugDeriveKey2"=dword:00000000 | "WideFontIsBold"=dword:00000000 | "SerialFlowControl"=dword:00000001 |
| "BugRSAPad2"=dword:00000000 | "WideFontCharSet"=dword:00000000 | "WindowClass"="" |
| "BugPKSessID2"=dword:00000000 | "WideFontHeight"=dword:00000000 | "ConnectionSharing"=dword:00000000 |
| "BugRekey2"=dword:00000000 | "WideBoldFont"="" | "ConnectionSharingUpstream"=dword:00000001 |
| "BugMaxPkt2"=dword:00000000 | "WideBoldFontIsBold"=dword:00000000 | "ConnectionSharingDownstream"=dword:00000001 |
| "BugWinadj"=dword:00000000 | "WideBoldFontCharSet"=dword:00000000 | "SSHManualHostKeys"="" |
| "BugChanReq"=dword:00000000 | 0 | |
| "StampUtmp"=dword:00000001 | "WideBoldFontHeight"=dword:00000000 | |

FreeNAS (192.168.1.20)

- **Edit Lines:**
 - (5) "HostName"=[root@192.168.1.20](#)
 - (6) "LogFileName"="C:\\Path\\To\\PuTTY\\Logs\\SSH.FreeNAS.Remote.log"
 - Log set to "All Session Output" [\[Session - Logging\]](#)
 - (15) "PortNumber"=dword:00000016
 - Hex value for SSH Port # ([hex] 00000016 = [dec] 22)
 - Windows Calculator has a "Programmer" mode with hex <-> dec
 - (58) "PublicKeyFile"="C:\\Path\\To\\PuTTY\\SSHkeys\\FreeNAS.SSH.ppk"
 - [plink](#) creates the multi-hop
 - (32) "ProxyTelnetCommand"="plink -v -load SSH.OpenWRT.Remote -nc %host:%port"
 - If Router's profile name changed, update it here too
 - Profile **cannot** contain spaces
 - Once each profile has been edited, save as a .reg & merge into registry
 - Once merged, you should immediately see them as profile options in PuTTY

Windows Registry Editor Version 5.00

[HKEY_CURRENT_USER\\Software\\SimonTatham\\PuTTY\\Sessions\\SSH.FreeNAS.Remote]

"Present"=dword:00000001

"HostName"="root@192.168.1.20"

"LogFileName"="C:\\Path\\To\\PuTTY\\Logs\\SSH.FreeNAS.Remote.log"

"LogType"=dword:00000002

"LogFileClash"=dword:00000000

"LogFlush"=dword:00000000

"SSHLogOmitPasswords"=dword:00000001

"SSHLogOmitData"=dword:00000000

"Protocol"="ssh"

"PortNumber"=dword:00000b83

"CloseOnExit"=dword:00000001

"WarnOnClose"=dword:00000001

"PingInterval"=dword:00000000

"PingIntervalSecs"=dword:00000000

"TCPNoDelay"=dword:00000001

"TCPKeepalives"=dword:00000000

"TerminalType"="xterm"

"TerminalSpeed"="38400,38400"

"TerminalModes"="CS7=A,CS8=A,DISCARD=A,D

SUSP=A,ECHO=A,ECHOCTL=A,ECHOE=A,ECHOK=A,ECHOKE=A,ECHONL=A,EOF=A,EOL=A,EOL2=A,

ERASE=A,FLUSH=A,ICANON=A,ICRNL=A,IEXTEN=A,IGNCR=A,IGNPAR=A,IMAXBEL=A,INLCR=A,INPCK=A,INTR=A,ISIG=A,ISTRIP=A,IUCLC=A,IXANY=A,IXOFF=A,IXON=A,KILL=A,LNEXT=A,NOFLSH=A,OCRNL=A,OLCUC=A,ONLCR=A,ONLRET=A,ONOCR=A,OPOST=A,PARENB=A,PARMRK=A,PARODD=A,PENDIN=A,QUIT=A,REPRINT=A,START=A,STATUS=A,STOP=A,SUSP=A,SWTCH=A,TOSTOP=A,WERASE=A,XCASE=A"

"AddressFamily"=dword:00000000

"ProxyExcludeList"=""

"ProxyDNS"=dword:00000001

"ProxyLocalhost"=dword:00000000

<https://forums.freenas.org/index.php?threads/howto-multi-hop-ssh-into-freenas.38242/>

| | | |
|--|--|--|
| "ProxyMethod"=dword:00000005 | "NoApplicationCursors"=dword:00000000 | "TermWidth"=dword:00000077 |
| "ProxyHost"="" | "NoMouseReporting"=dword:00000000 | "TermHeight"=dword:00000028 |
| "ProxyPort"=dword:00000000 | "NoRemoteResize"=dword:00000000 | "Font"="Lucida Console" |
| "ProxyUsername"="" | "NoAltScreen"=dword:00000000 | "FontIsBold"=dword:00000000 |
| "ProxyPassword"="" | "NoRemoteWinTitle"=dword:00000000 | "FontCharSet"=dword:00000000 |
| "ProxyTelnetCommand"="plink -v -load | "RemoteQTTitleAction"=dword:00000001 | "FontHeight"=dword:0000000a |
| SSH.OpenWRT.Remote -nc %host:%port" | "NoDBackspace"=dword:00000000 | "FontQuality"=dword:00000003 |
| "Environment"="" | "NoRemoteCharset"=dword:00000000 | "FontVTMode"=dword:00000004 |
| "UserName"="root" | "ApplicationCursorKeys"=dword:00000000 | "UseSystemColours"=dword:00000000 |
| "UserNameFromEnvironment"=dword:00000000 | "ApplicationKeypad"=dword:00000000 | "TryPalette"=dword:00000000 |
| 0 | "NetHackKeypad"=dword:00000000 | "ANSIColour"=dword:00000001 |
| "LocalUserName"="" | "AltF4"=dword:00000001 | "Xterm256Colour"=dword:00000001 |
| "NoPTY"=dword:00000000 | "AltSpace"=dword:00000001 | "BoldAsColour"=dword:00000002 |
| "Compression"=dword:00000000 | "AltOnly"=dword:00000000 | "Colour0"="175,175,175" |
| "TryAgent"=dword:00000001 | "ComposeKey"=dword:00000000 | "Colour1"="255,125,0" |
| "AgentFwd"=dword:00000000 | "CtrlAltKeys"=dword:00000001 | "Colour2"="25,25,25" |
| "GssapiFwd"=dword:00000000 | "TelnetKey"=dword:00000000 | "Colour3"="20,20,20" |
| "ChangeUsername"=dword:00000000 | "TelnetRet"=dword:00000001 | "Colour4"="0,163,255" |
| "Cipher"="aes,3des,blowfish,WARN,arcfour,des | "LocalEcho"=dword:00000002 | "Colour5"="0,163,255" |
| " | "LocalEdit"=dword:00000002 | "Colour6"="0,0,0" |
| "KEX"="dh-gex-sha1,dh-group14-sha1,dh- | "Answerback"="PuTTY" | "Colour7"="85,85,85" |
| group1-sha1,rsa,WARN" | "AlwaysOnTop"=dword:00000000 | "Colour8"="187,0,0" |
| "RekeyTime"=dword:0000003c | "FullScreenOnAltEnter"=dword:00000000 | "Colour9"="255,85,85" |
| "RekeyBytes"="1G" | "HideMousePtr"=dword:00000000 | "Colour10"="0,187,0" |
| "SshNoAuth"=dword:00000000 | "SunkenEdge"=dword:00000000 | "Colour11"="85,255,85" |
| "SshBanner"=dword:00000001 | "WindowBorder"=dword:00000005 | "Colour12"="187,187,0" |
| "AuthTIS"=dword:00000000 | "CurType"=dword:00000001 | "Colour13"="255,255,85" |
| "AuthKI"=dword:00000001 | "BlinkCur"=dword:00000001 | "Colour14"="0,163,255" |
| "AuthGSSAPI"=dword:00000001 | "Beep"=dword:00000001 | "Colour15"="0,100,255" |
| "GSSLibs"="gssapi32,ssp,i,custom" | "BeepInd"=dword:00000000 | "Colour16"="187,0,187" |
| "GSSCustom"="" | "BellWaveFile"="" | "Colour17"="255,85,255" |
| "SshNoShell"=dword:00000000 | "BellOverload"=dword:00000001 | "Colour18"="0,187,187" |
| "SshProt"=dword:00000003 | "BellOverloadN"=dword:00000005 | "Colour19"="85,255,255" |
| "LogHost"="" | "BellOverloadT"=dword:000007d0 | "Colour20"="187,187,187" |
| "SSH2DES"=dword:00000000 | "BellOverloadS"=dword:00001388 | "Colour21"="255,255,255" |
| "PublicKeyFile"="C:\\Path\\To\\PuTTY\\SSHkey | "ScrollbarLines"=dword:00002710 | "RawCNP"=dword:00000000 |
| s\\FreeNAS.SSH.ppk" | "DECOOriginMode"=dword:00000000 | "PasteRTF"=dword:00000000 |
| "RemoteCommand"="" | "AutoWrapMode"=dword:00000001 | "MouselsXterm"=dword:00000000 |
| "RFCEnviron"=dword:00000000 | "LFImpliesCR"=dword:00000000 | "RectSelect"=dword:00000000 |
| "PassiveTelnet"=dword:00000000 | "CRImpliesLF"=dword:00000000 | "MouseOverride"=dword:00000001 |
| "BackspacelsDelete"=dword:00000001 | "DisableArabicShaping"=dword:00000000 | "Wordness0"="0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0, |
| "RXVTHomeEnd"=dword:00000000 | "DisableBidi"=dword:00000000 | ,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0" |
| "LinuxFunctionKeys"=dword:00000000 | "WinNameAlways"=dword:00000001 | "Wordness32"="0,1,2,1,1,1,1,1,1,1,1,1,1,2,2,2,2, |
| "NoApplicationKeys"=dword:00000000 | "WinTitle"="Secure Shell - FreeNAS (Remote)" | 2,2,2,2,2,2,2,2,2,1,1,1,1,1,1,1" |

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[illegible]

[Incorporate Existing Profiles]

- **Existing Remote Router Profile**
 - Merge FreeNAS profile **after** also editing the profile name on line:
 - **(32)** "ProxyTelnetCommand"="plink -v -load Remote.Router.Profile -nc %host:%port"
- **Existing FreeNAS Profile**
 - Create a copy of it
 - Under **Settings - Connection - Proxy - Telnet Command** add:
 - **plink -v -load Remote.Router.Profile -nc %host:%port**

[Initiating Multi-Hop]

- *Initiate Multi-Hop by opening SSH.FreeNAS.Remote profile*
 - *If utilizing a password on PKI key:*
 - *First password request: SSH.OpenWRT.Remote*
 - *Second password request: SSH.FreeNAS.Remote*

How To Multi-Hop SSH into FreeNAS

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[PSCP commands]

- **Push**

- `pscp -r -i "C:\Path\To\PuTTY\SSHkeys\FreeNAS.SSH.ppk" -2 -scp -P 22 "D:\Path\To\File.txt" root@192.168.1.20:/path/to/directory`
 - **Without utilizing PKI**
 - `pscp -r -scp "D:\Path\To\File.txt" -P 22 root@192.168.1.20:/path/to/directory`

- **Pull**

- `pscp -r -i "C:\Path\To\PuTTY\SSHkeys\FreeNAS.SSH.ppk" -2 -scp -P 22 root@192.168.1.20:/path/to/file.txt "D:\Path\To\Directory"`
 - **Without utilizing PKI**
 - `pscp -r -scp root@192.168.1.20:/path/to/directory -P 22 "D:\Path\To\File.txt"`

`-r` [copy directories recursively]

`-1/-2` [force use of particular SSH protocol version]

`-i key` [private key file for user authentication]

`-scp` [force use of SCP protocol]

`-P port` [connect to specified port]

[Recommendations]

- **GPG4Win** ([website](#))
 - PKI & SSL certificate management
 - Seamlessly interfaces with PuTTY & autoloads keys into pageant via Kleopatra
- **WinSCP** ([website](#))
 - GUI for transferring files over SSH
 - Explorer like drag & drop
 - Interfaces seamlessly with PuTTY
- **Pageant** ([part of PuTTY](#))
 - Keeps PKI keys active for a specified amount of time
 - GPG4Win auto loads keys into pageant
 - pageant only operates on the backend with Kleopatra
 - Best compromise between security & convenience
 - **While using, with or without GPG4Win, do not leave PC unsecured**
 - Kleopatra [GPG4Win] will kick you out after ~30 min of terminal inactivity, pageant will not
 - **Load Keys**
 - `pageant "D:\Path\To\PuTTY\SSHkeys\FreeNAS.ppk" "D:\Path\To\PuTTY\SSHkeys\Router.ppk"`
 - **Load Key & Start PuTTY**
 - `pageant "D:\Path\To\PuTTY\SSHkeys\FreeNAS.ppk" "C:\Program Files\PuTTY\putty.exe"`
 - x64: `"C:\Program Files (x86)\PuTTY\putty.exe"`