

PAKEDGEDEVICE&SOFTWARE INC.

RE-2

ENTERPRISE AUDIO/VIDEO ROUTER



USER MANUAL

VERSION 1.1

FCC Declaration of Conformity

Pakedge Device & Software, Inc., 3847 Breakwater Avenue, Hayward, CA, declares under sole responsibility that the RE-2 comply with 47 CFR Parts 2 and 15 of the FCC Rules as a Class B digital device. These devices comply with Part 15 of FCC Rules. Operation of the devices is subject to the following two conditions: (1) These devices may not cause harmful interference, and (2) these devices must accept any interference that may cause undesired operation.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. THE UNIT MUST NOT BE EXPOSED TO DRIPPING OR SPLASHING WATER. CAUTION: DO NOT OPEN THE UNIT. DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE INSTALLATION AND TROUBLESHOOTING INSTRUCTIONS. REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL. CAUTION: THIS DEVICE MUST BE INSTALLED AND USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AS DESCRIBED IN THE USER DOCUMENTATION THAT COMES WITH THE PRODUCT. WARNING: POSTPONE INSTALLATION UNTIL THERE IS NO RISK OF THUNDERSTORM OR LIGHTNING ACTIVITY IN THE AREA.

SAFETY PRECAUTIONS:

When using this device, always follow basic safety precautions to reduce the risk of fire, electric shock, and injury to persons, including the following:

- Comply with all warning and caution statements in the instructions.
- Retain instructions for future reference.
- Observe all warning and caution symbols that are affixed to this equipment.
- Comply with all instructions that accompany this equipment.
- Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in safe operating condition.
- Installation of this product must be in accordance with national wiring codes and must conform to local regulations.
- Avoid using this product during an electrical storm. There may be a risk of electric shock from lightning. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug the power supply and disconnect the CAT5e. This will prevent damage to the product due to lightning and power surges.
- Give particular attention to all safety precautions.
- Operate this product only from the type of power source indicated on the product's marking label. If you are not sure what type of power is supplied to your home, consult your dealer or local power company.
- It is recommended that the customer install an AC surge protector in the AC outlet to which this device is connected. This is to avoid damage to the equipment from lightning strikes and other electrical surges.
- Wipe the unit with a clean, dry cloth. Never use cleaning fluid or similar chemicals. Do not spray cleaners directly on the unit or use forced air to remove dust.
- Keep the device away from excessive heat and humidity and keep the device free from vibration and dust.
- Do not directly cover the device or block the airflow to the device with insulation or any other objects.

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INTRODUCTION

The popularity and affordability of IP networking has driven audio/video and control networks to share the same physical wiring with computer networks. However, computer data can tolerate unpredictable latency in ways that audio-video streaming and control systems cannot. Sophisticated systems require the same robustness as an enterprise network to ensure that IP-based controls occur instantly and audio/video packets arrive in time.

Note: If this is your first time installing this product, please read this manual in its entirety.

CUSTOMER SERVICE AND TECHNICAL SUPPORT

Pakedge Device & Software, Inc. is committed to providing you with exceptional support on all of our products. If you wish to speak with one of our representatives, you may contact us at:

Customer Service

Email: customerservice@pakedge.com

Phone: **650.385.8701**

Technical Support

Email: support@pakedge.com

Phone: **650.385.8703**

Website: www.pakedge.com

Visit our website for up-to-date support information.

Please be prepared to provide your product's model and serial number when contacting Pakedge Support. Your model and serial numbers are printed on a label located on the electronic housing.

Pakedge Device & Software, Inc.
3847 Breakwater Avenue
Hayward, CA 94545
USA

INSTALLING

For installation procedures, please refer to the Quick Start Guide that came with the RE-2. You can also visit the Dealer Portal on our website for all the current manuals and Quick Start Guides.

NOTE: If you install the RE-2 in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room temperature. Make sure you install the equipment somewhere within the recommended temperature range.

For rack installation, make sure that the amount of air flow required for safe operation of the equipment is not compromised.

For free-standing installation, make sure that the RE-2 has at least 1.5 in. (3.75cm) of clearance on each side to allow for adequate air flow and cooling.

GETTING TO KNOW YOUR PRODUCT

Package Contents:

- RE-2
- Mounting Brackets
- Power Cable
- 6ft CAT5E Cable
- Quick Start Guide

The front panel of the RE-2 has several blue LEDs. See the [Table 1](#) below for more information.



Table 1: LED Explanation (From Left to Right)

LED	Status	Operation	
POWER	Blue	The router is powered on	
	Off	The router is turned off	
LAN (Ports 2-5)	LINK/ACT	Blue	Port is online (link established)
		Flashing Blue	Activity
		Off	No device connected
WAN2 (Port 2)	LINK/ACT	Blue	Port is online (link established)
		Flashing Blue	Activity
		Off	No device connected
WAN1	LINK/ACT	Blue	Port is online (link established)
		Flashing Blue	Activity
		Off	No device connected

*Note: Port number 2 can be configured as a second wan port and port number 5 can be configured as a Guest network.

Below you will find a description of the interfaces on the back of the RE-2 in [Table 2](#).



Table 2: LED Explanation (From Left to Right)

Interface	Type	Speed	Protocol	Description
AC Power input	AC	N/A	N/A	Power Input
Power Switch	N/A	N/A	N/A	On/Off Power Switch
WAN	RJ-45	10/100/1000 Mbps	Ethernet	WAN port used for the internet connection from the ISP
LAN (Ports 2-5)	RJ-45	10/100/1000 Mbps	Ethernet	4-port switch connections on the internal network
USB 1	USB-A	480Mbps	USB 2.0	Management USB port. This port can also be used
USB 2	USB-A	Up to 5Gbps	USB 3.0	USB port used for file sharing

Note: The USB 1 interface can also be used for file sharing, but will offer slower USB 2.0 speeds.

ACCESSING THE ROUTER

To access the router's GUI, please follow the steps below:

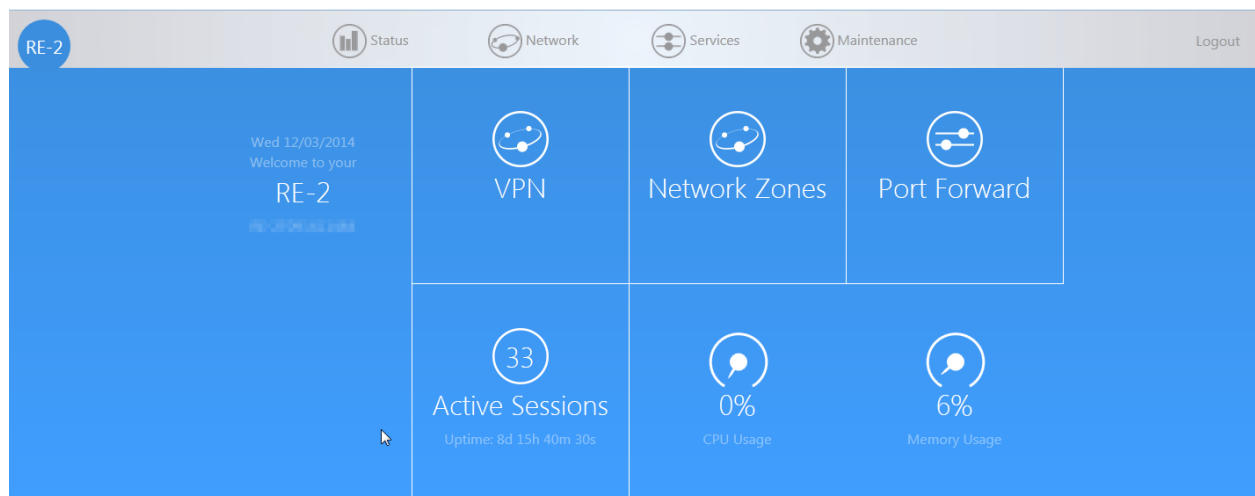
1. Plug an Ethernet cable from the router to a PC.
2. Make sure your network card is set to obtain an IP address automatically. Then open any internet browser and go to the address <http://192.168.1.99> or you can simply type **pakedgerouter.com**
Note: For best results we recommend using Mozilla Firefox as your web browser. If you are using Internet Explorer please use version 9 or newer.
3. Enter the default username **pakedge** and the password **pakedge**. Click **login**.



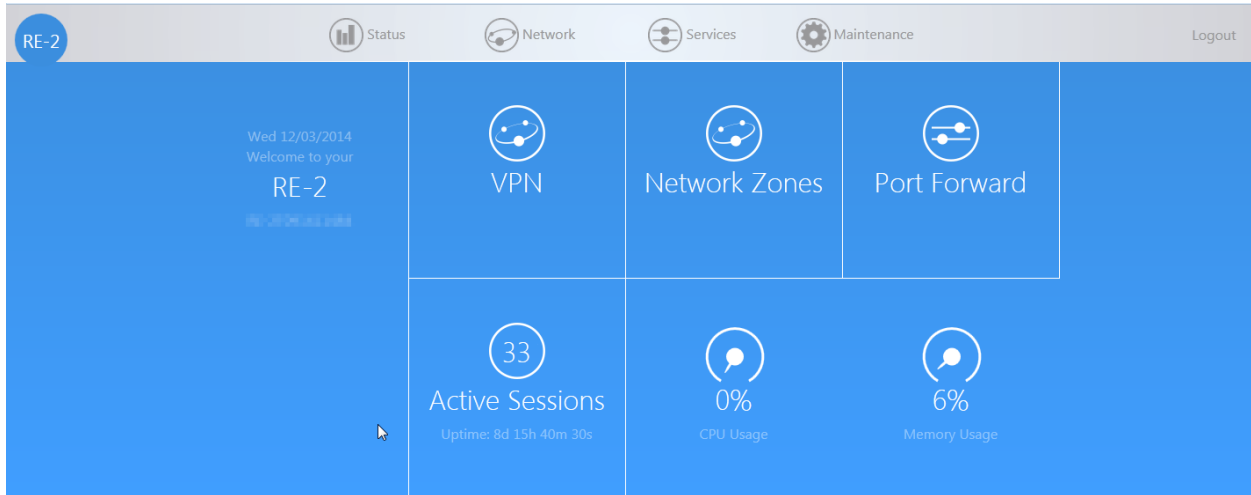
It is recommended that you change this default password. Please see the section titled "Username/Password".

DASHBOARD

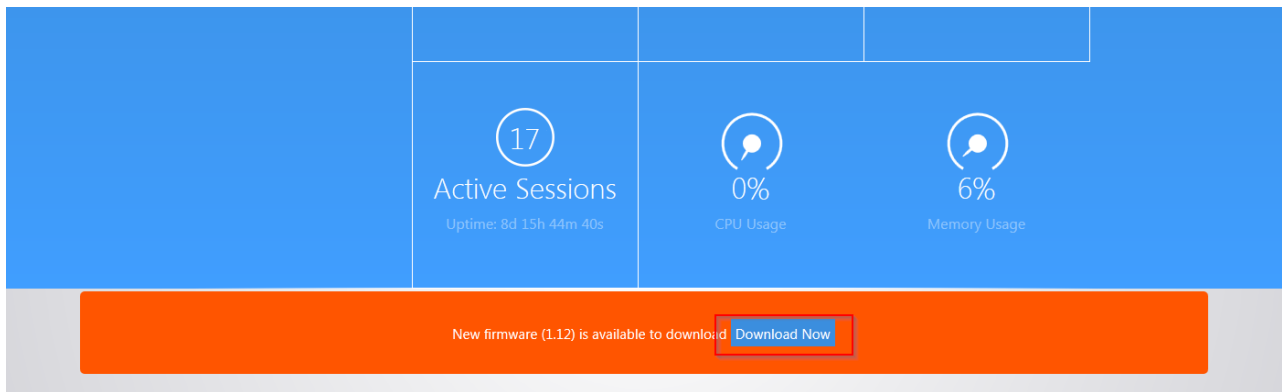
The dashboard provides frequently used quick links to help with more efficient set up.



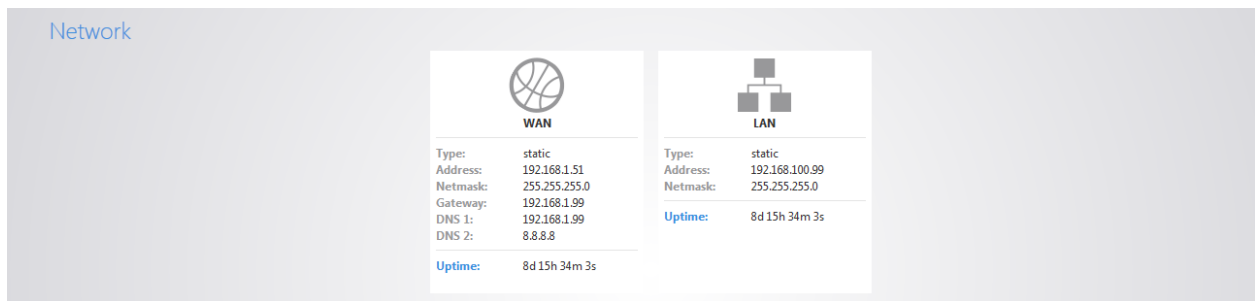
Towards the top of the page you will find information on the serial number, uptime, and the number of active sessions on the RE-2 as well as the CPU and memory usage.



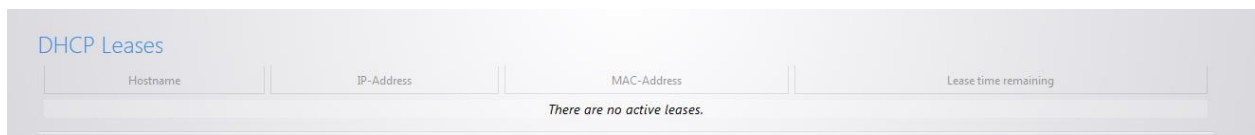
If there is new firmware available for the RE-2, you will see a message alerting you with an option to download it.



Under **Network** you will find a summary of the network zones that are active on the RE-2.



The **DHCP Leases** section shows the devices that have received an IP address form the RE-2.



Other Connected Devices will display any device that has been discovered by the router. When a device on the network transmits data, the router will log its IP address. Usually devices with static IPs assigned to them will appear in this field.

Zone:	IP Address	MAC Address
WAN (Internet)	192.168.1.34	08:00:27:00:00:00
LAN	192.168.100.100	08:00:27:00:00:00
WAN (Internet)	192.168.1.99	08:00:27:00:00:00

CONNECTING TO THE INTERNET

The RE-2 supports the three main types of internet connections:

- **DHCP** (Typically used by cable companies and DSL basic service)
- **Static IP** (Fixed public IP address mostly used by Business Class Broadband services)
- **PPPoE** (Used by DSL companies such as AT&T)

Determine what type of internet connection you have from your Internet Service Provider (ISP), and then follow one of the three instruction sets below to connect the router to the internet.

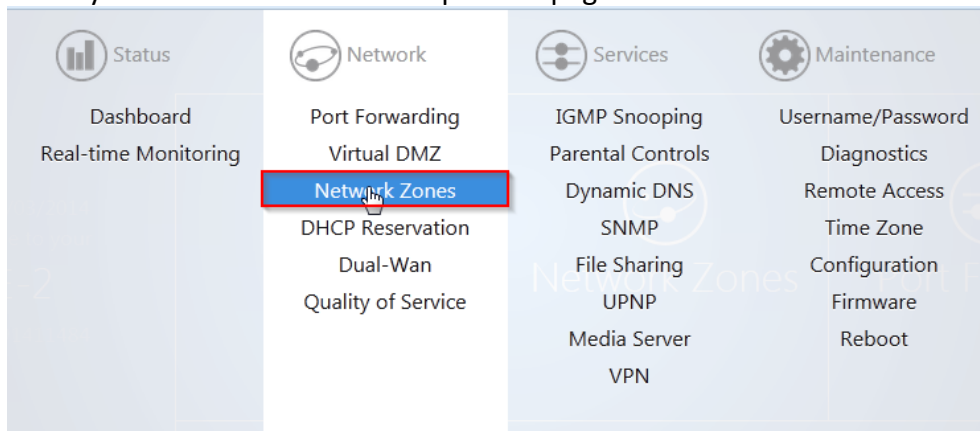
DHCP:

By default, the router will connect to the internet using DHCP. If your ISP uses DHCP, you may need to reset the modem to get internet access. If you are using a modem that has a router built into it, you may have to configure DMZ settings to allow complete functionality of the RE-2.

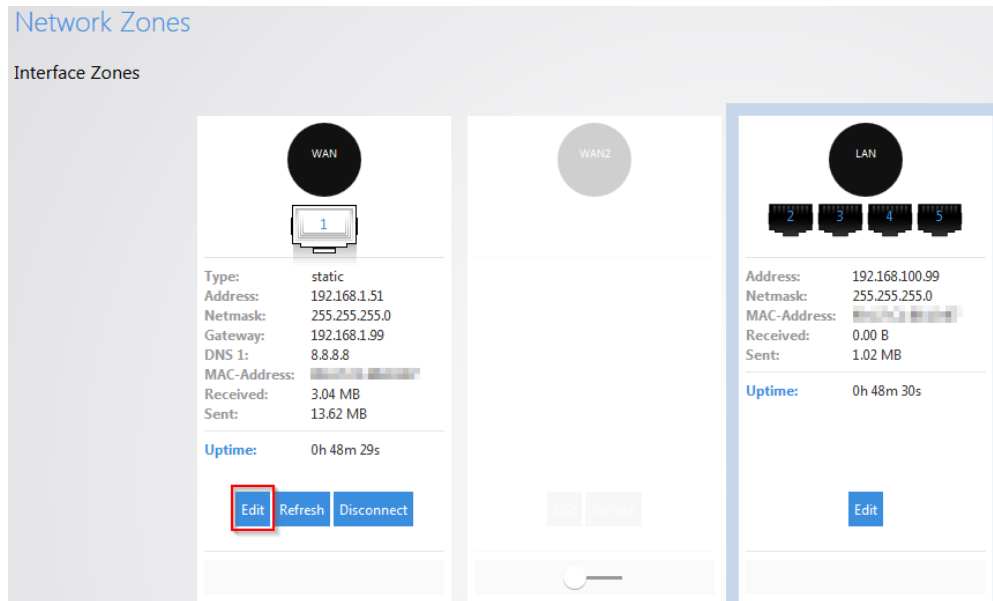
Static IP:

To configure the router to a static IP, complete the following steps

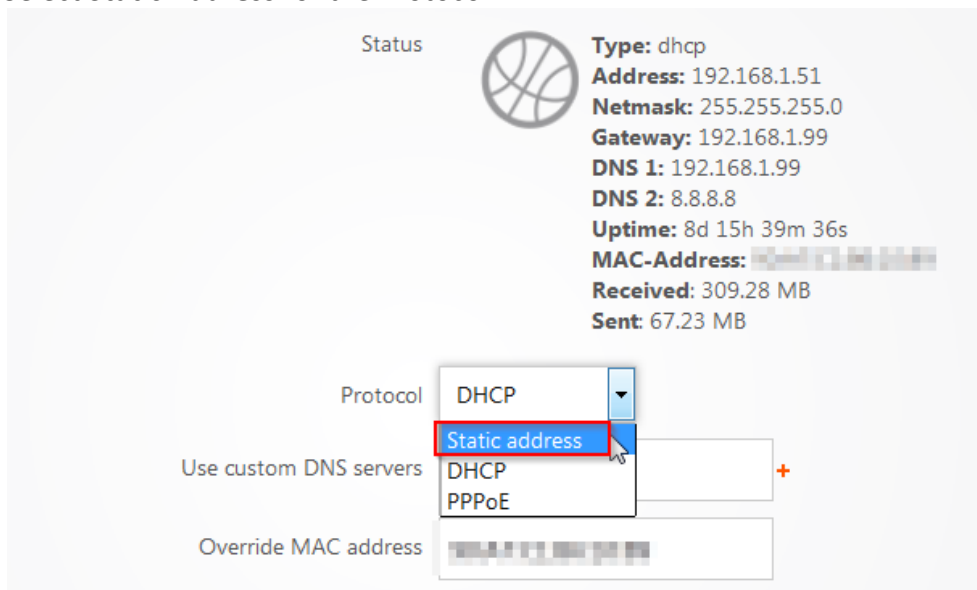
1. Hover your mouse towards the top of the page over **Network**. Click on **Network Zones**.



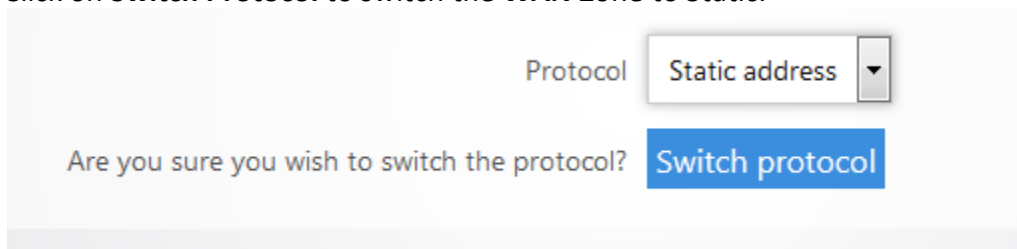
2. Edit the WAN Zone.



3. Select **Static Address** for the Protocol.



4. Click on **Switch Protocol** to switch the WAN Zone to Static.



5. Enter the **IP address, subnet mask, Default Gateway** and **DNS Server** provided by your ISP. Select **custom** from the netmask drop down menu to enter a custom subnet mask. Click **Apply**. The router now has the Static IP configured on it.

The screenshot shows a configuration page for a Static IP address. The fields are as follows:

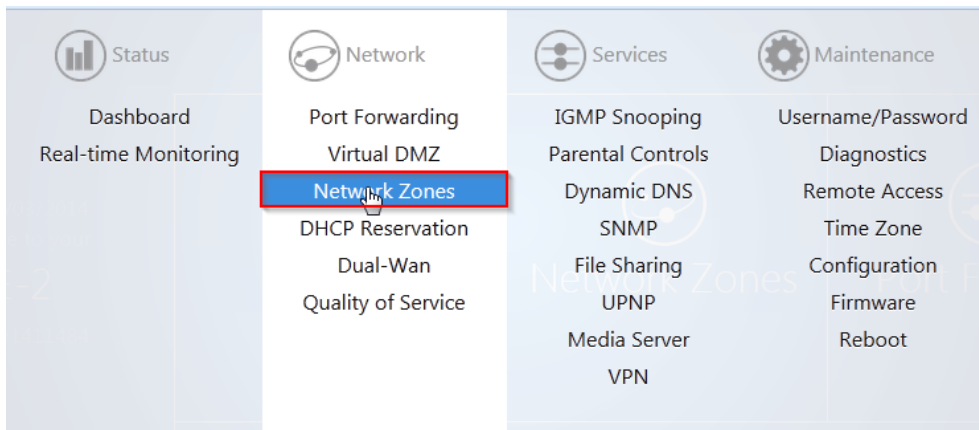
- Protocol: Static address (dropdown menu)
- IPv4 address: 192.168.1.51
- IPv4 netmask: 255.255.255.0 (dropdown menu)
- IPv4 gateway: 192.168.1.99
- Use custom DNS servers: 8.8.8.8 (text input with a plus sign to add more)
- Override MAC address: [blurred]

CONNECTING TO THE INTERNET (CONTINUED)

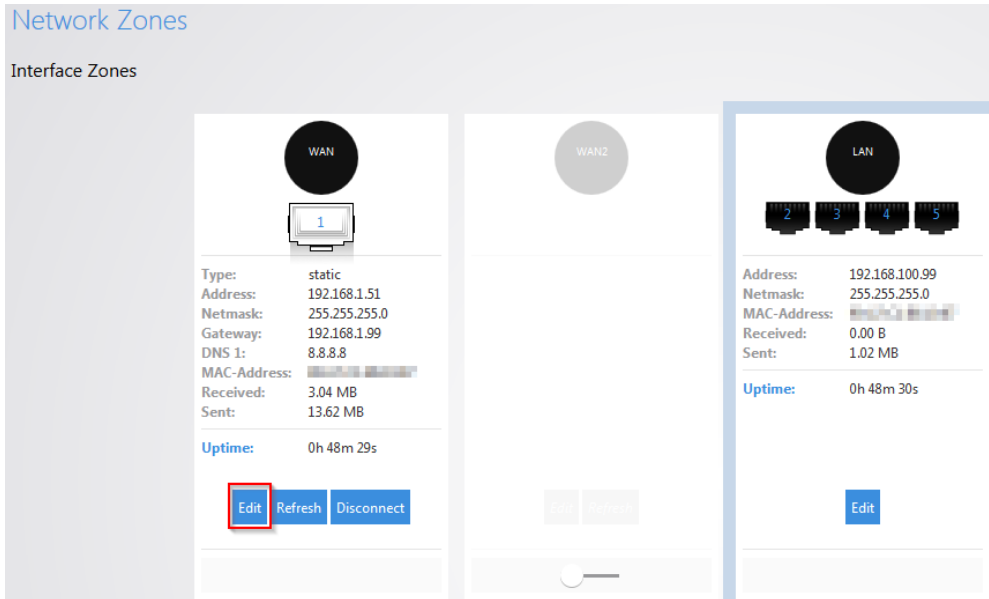
PPPoE:

To configure the router using a PPPoE connection, you will need to complete the following steps:

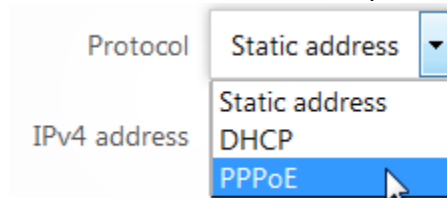
1. Log into the RE-2
2. Click on **Network Zones**.



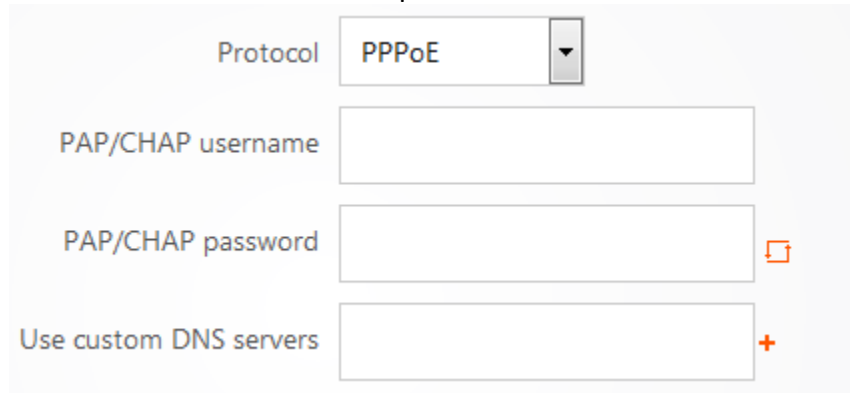
3. **Edit the WAN Zone.**



4. Select **PPPoE** from the Protocol drop down menu. Then click on **Switch Protocol**.



5. Enter the username that the ISP assigned under the **PAP/CHAP username** field. Enter the password in the **PAP/CHAP password** field. For the **Use custom DNS servers**, enter the DNS server you would like to use. For example, you can use 8.8.8.8. Click **Apply** when finished. The router is now setup for PPPoE.

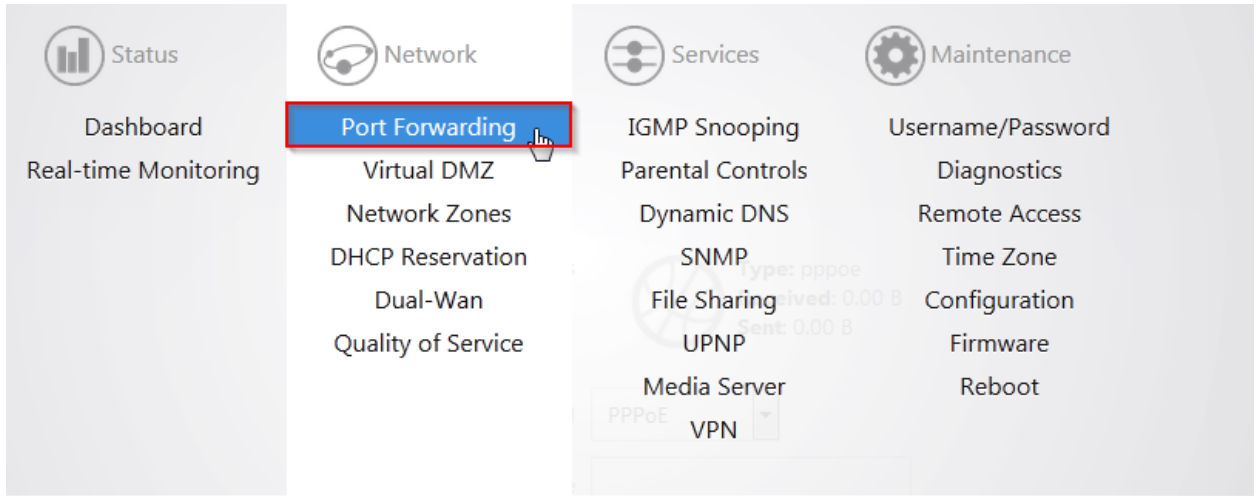


PORT FORWARDING

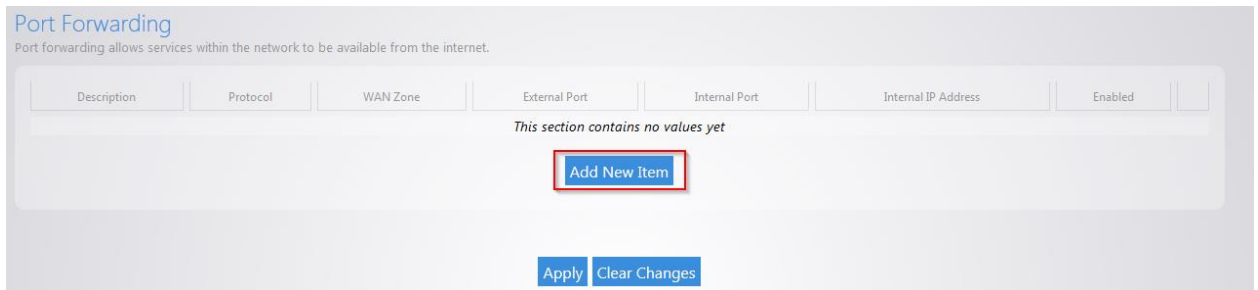
Port forwarding allows services inside the network to be available from the internet. For example, if you have an IP camera on your network port forwarding would allow you to remotely view the camera.

To configure port forwarding take the following steps.

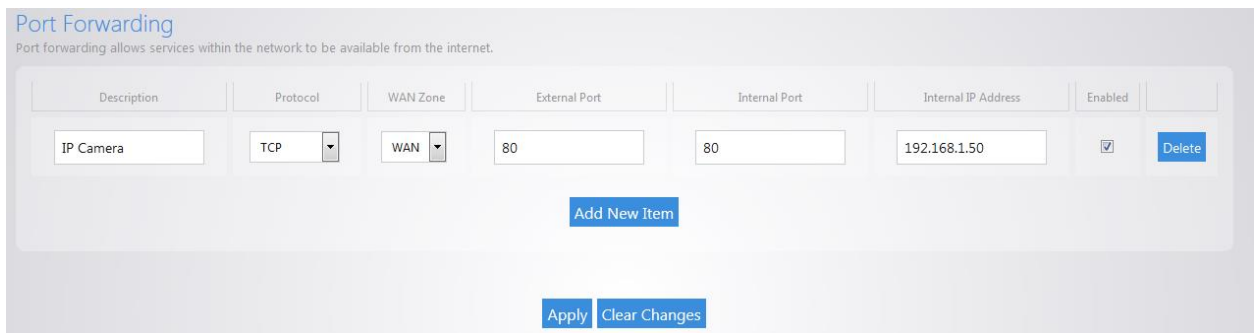
1. Navigate to **Network->Port Forwarding**.



2. As an example we will forward TCP port 80 to an IP camera on the IP address 192.168.1.50. Click **Add New Item**.



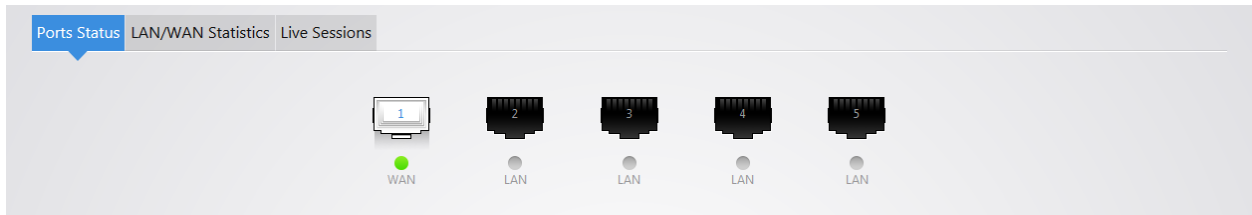
3. For the **Description** enter **IP Camera**. For the **Protocol** select **TCP**. For the **WAN Zone** select **WAN**. We will enter **80** for the **External Port**. Enter **80** as the **Internal port**. For the **internal IP address** select **custom** and enter **192.168.1.50**. Leave the enable box checked. Click **Apply**. The Port forward information will be saved in this section.



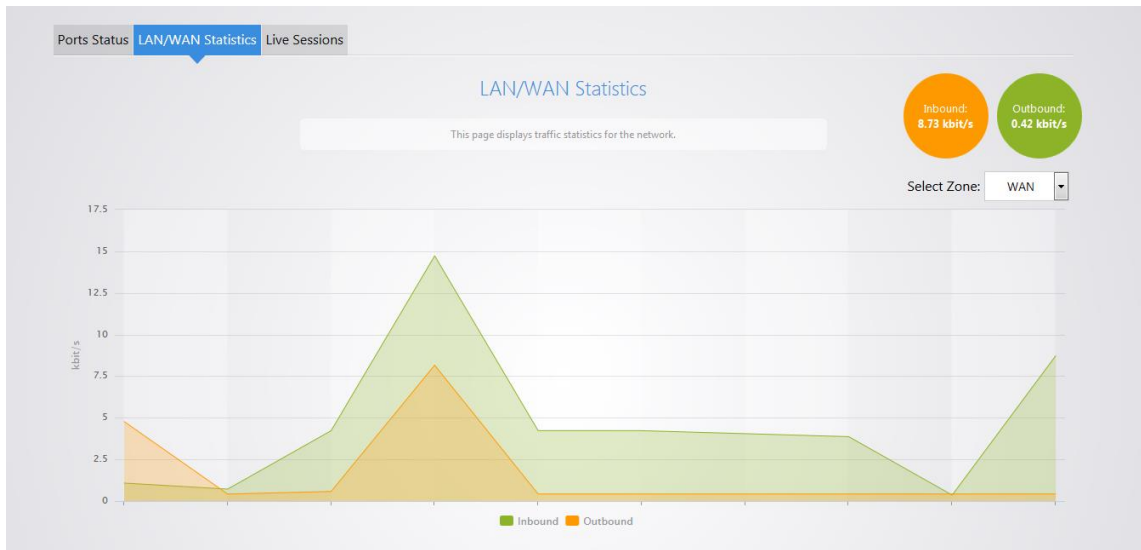
REAL-TIME MONITORING

The **Real-Time Monitoring** section allows you to view statistics on the router.

The **Port Status** section will display which ports on the router are currently active.



The **LAN/WAN Statistics** will display the amount of traffic going through the LAN or WAN of the router.



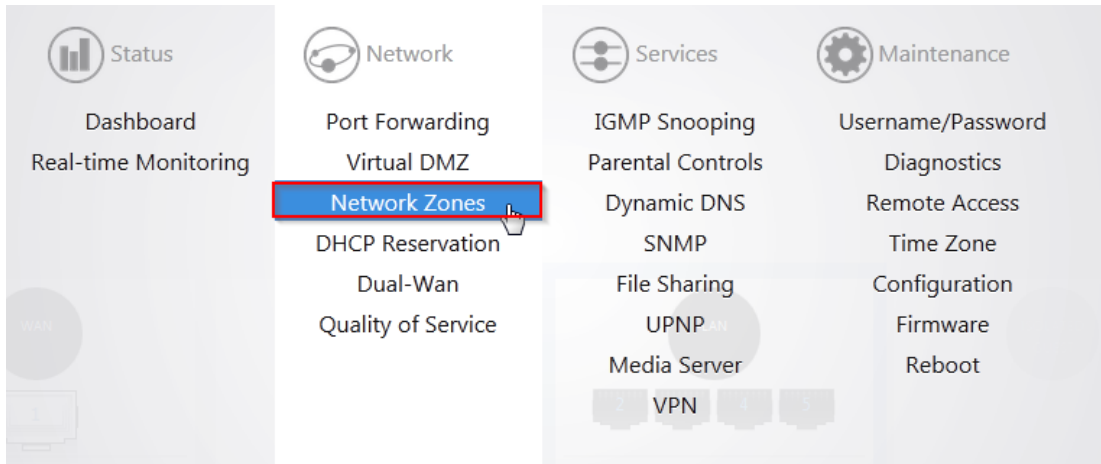
The **Live Sessions** will display information on active connections. This information includes the protocol type, amount of data transferred and the destination of the data.



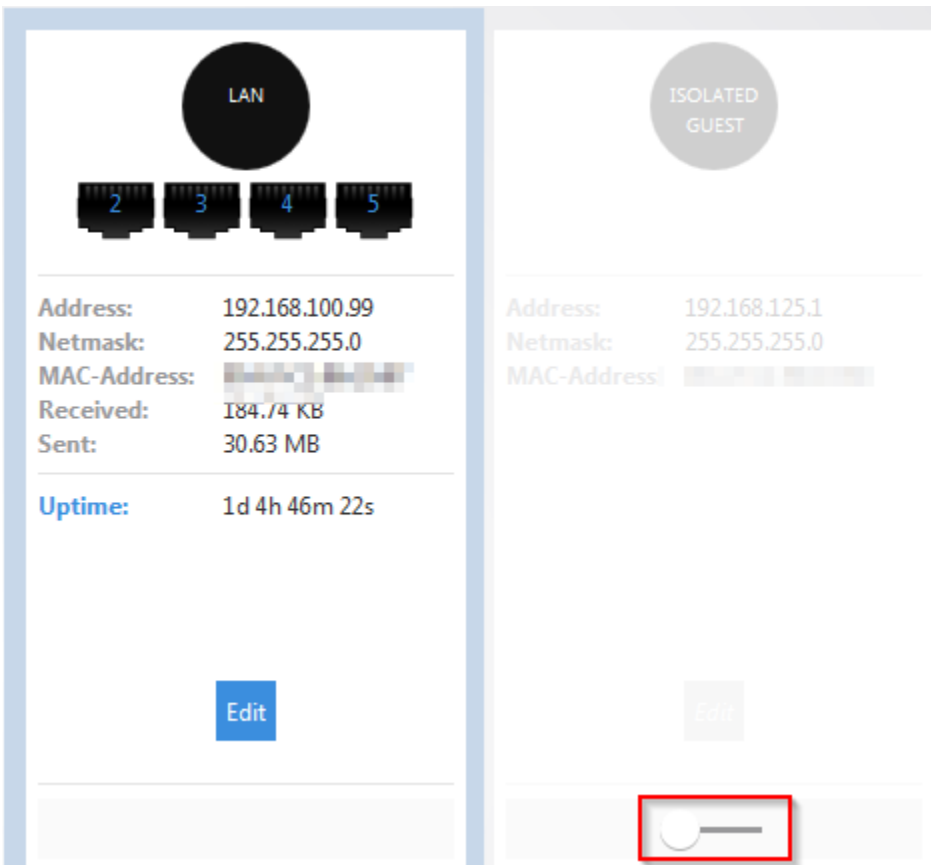
ISOLATED GUEST NETWORK

The RE-2 has an isolated guest network option. When enabled, port 5 on the router will be turned into a guest network port. Any devices connected on that port will be placed on the Guest network. The Guest network will only have access to the internet. It will not have access to any internal resources. To enable the isolated guest network take the following steps.

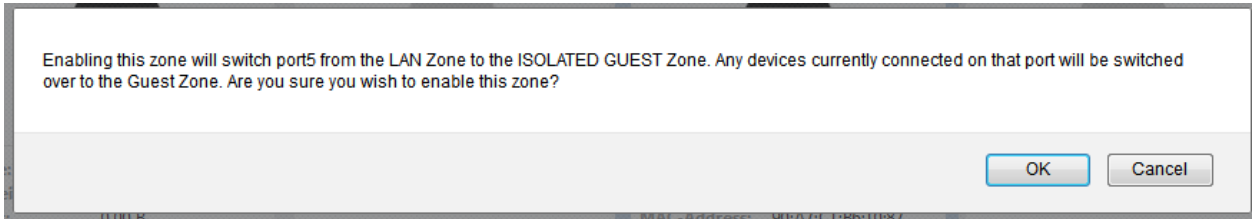
1. From the **Network** menu, click on **Network Zones**.



2. Click the toggle on/off switch under the **Isolated Guest** network zone.



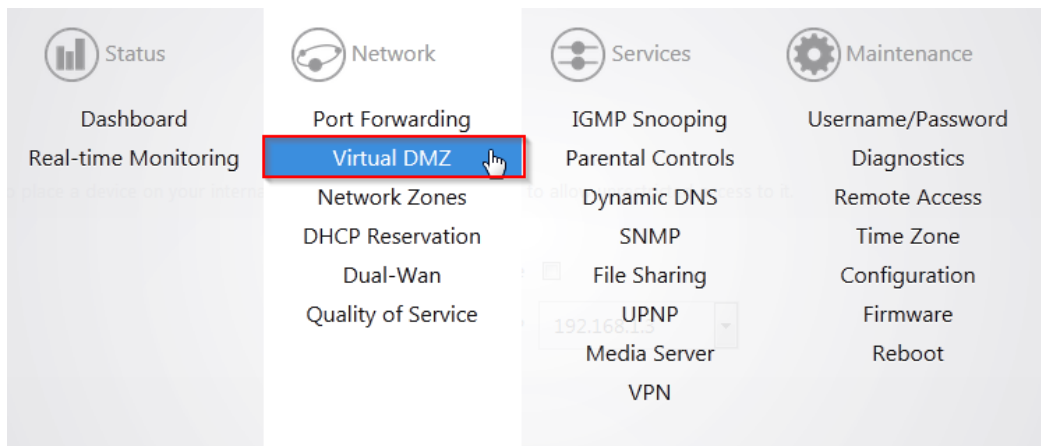
3. You will get a message letting you know that port 5 will be turned into the Isolation Guest network port. Click **OK** to enable the isolated guest network.



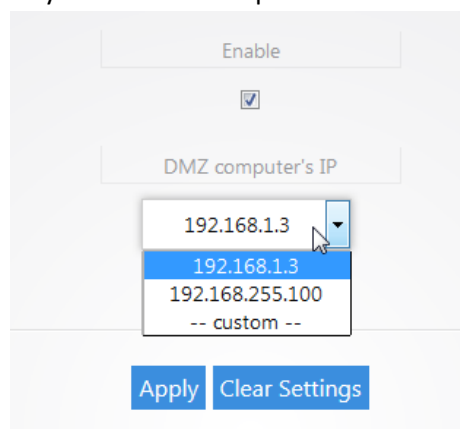
VIRTUAL DMZ

The Virtual DMZ will allow you to place a device in the network outside of the firewall. This will allow for unrestricted access to it from the internet. To configure the Virtual DMZ take the following steps.

1. Click on **Virtual DMZ**.



2. Check the enable box. For the **DMZ computer's IP** field, you can select the device from the drop down menu. If the device is not listed you can select **custom** to manually enter the IP address of the device you would like to place in the DMZ. Click **Apply** to finalize the configuration.

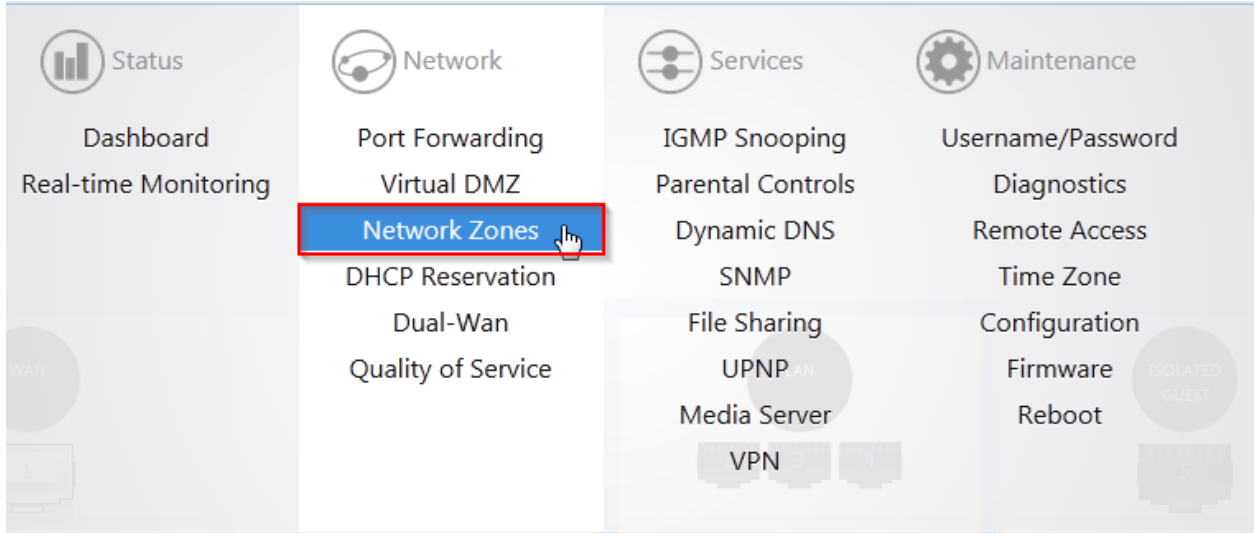


Note: When you enable the Virtual DMZ you will still be able access the routers GUI remotely via HTTPS, and you will still be able to use the VPN feature.

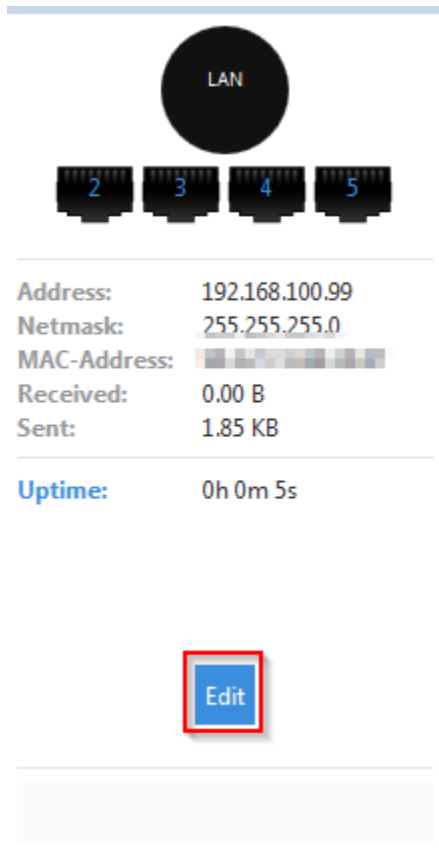
CHANGING THE IP ADDRESS OF THE LAN ZONE

The default IP address of the RE-2 is 192.168.1.99. If you need to change the IP address of the router or change the entire network address take the following steps.

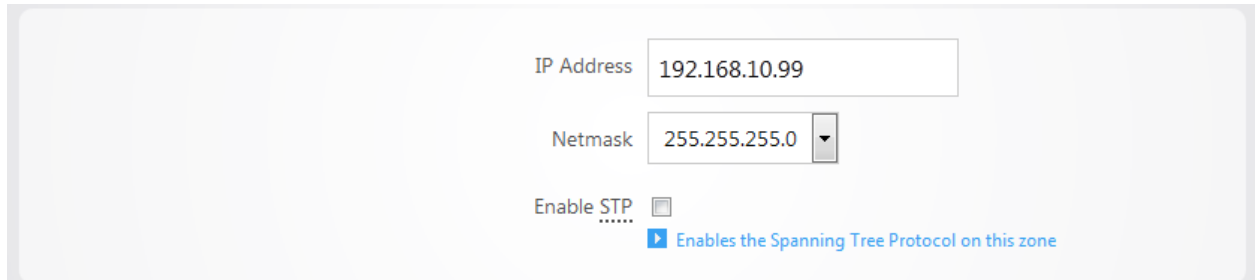
1. Click on **Network Zones**.



2. Click **Edit**.



3. Enter the new IP address you wish to use in the **IP Address** field. In the following example, we change the IP address of the router to 192.168.10.99.



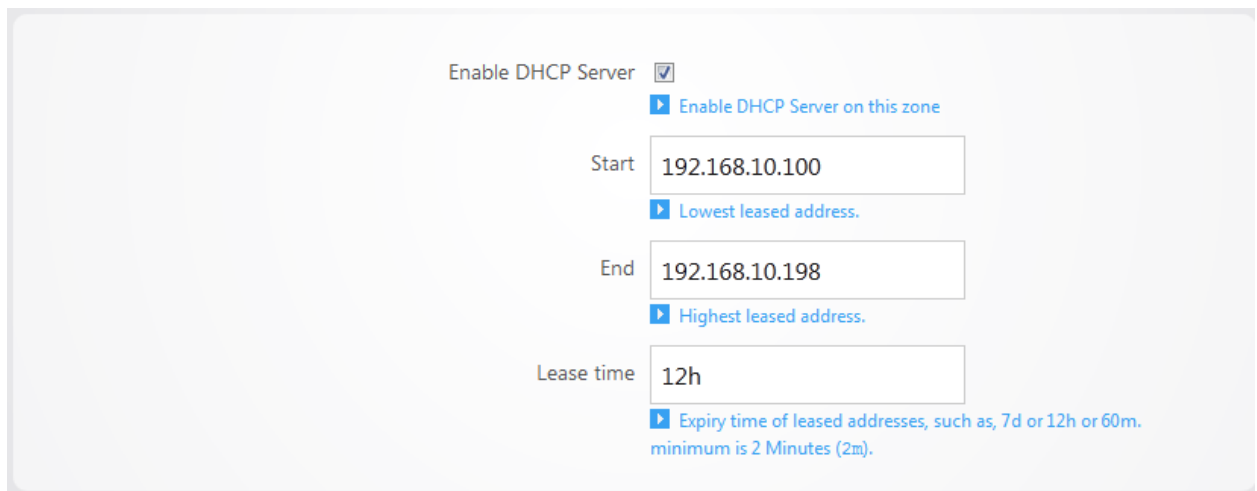
IP Address 192.168.10.99

Netmask 255.255.255.0

Enable STP

[Enables the Spanning Tree Protocol on this zone](#)

4. In the **DHCP Server** section, the **Start** field indicates the first IP address that will be handed out by the router. The **End** field indicates the last IP address that will be handed out. The **limit** field indicates the amount of IP addresses that the router can hand out.



Enable DHCP Server

[Enable DHCP Server on this zone](#)

Start 192.168.10.100

[Lowest leased address.](#)

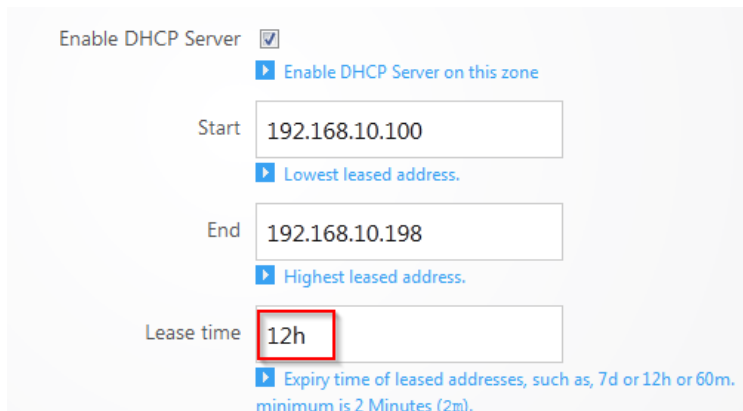
End 192.168.10.198

[Highest leased address.](#)

Lease time 12h

[Expiry time of leased addresses, such as, 7d or 12h or 60m. minimum is 2 Minutes \(2m\).](#)

5. The **Lease time** field allows you to view/modify DHCP IP address lease time. The following format must be used: A **D** represents days, an **H** represents hours and an **M** represents minutes. For example, if you wanted to change the lease time to be 3 days 2 hours and 30 minutes you would set the lease time to **3D2H30M**.



Enable DHCP Server

[Enable DHCP Server on this zone](#)

Start 192.168.10.100

[Lowest leased address.](#)

End 192.168.10.198

[Highest leased address.](#)

Lease time 12h

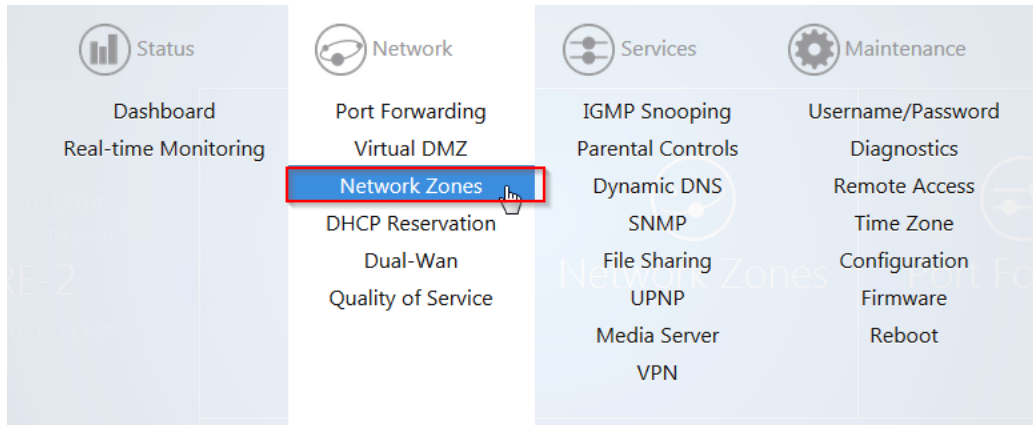
[Expiry time of leased addresses, such as, 7d or 12h or 60m. minimum is 2 Minutes \(2m\).](#)

6. Click **Apply** to finalize your settings.

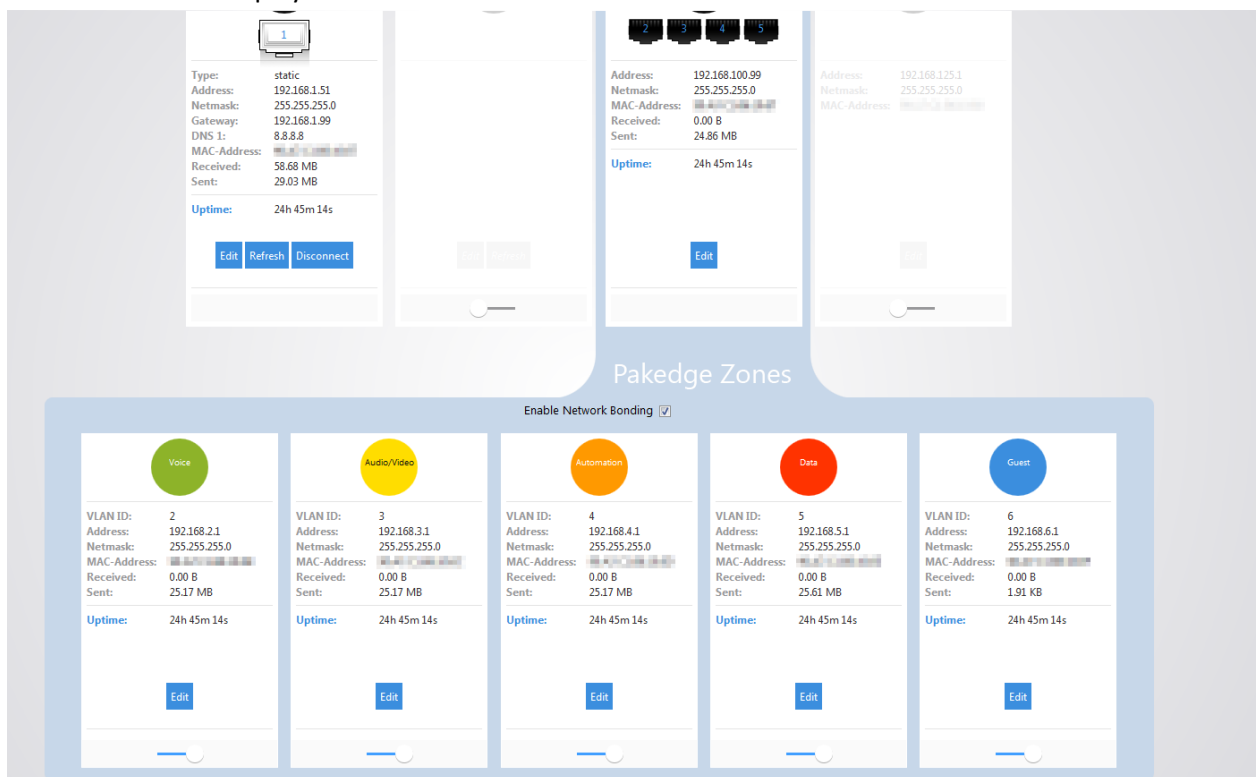
VLAN SETTINGS

The RE-2 comes configured with VLANs. VLANs allow you to separate devices into smaller networks to increase efficiency on your network. The RE-2 will come with VLANs 2-6. To modify any of the VLAN settings, take the following steps.

1. Click **Network Zones**.

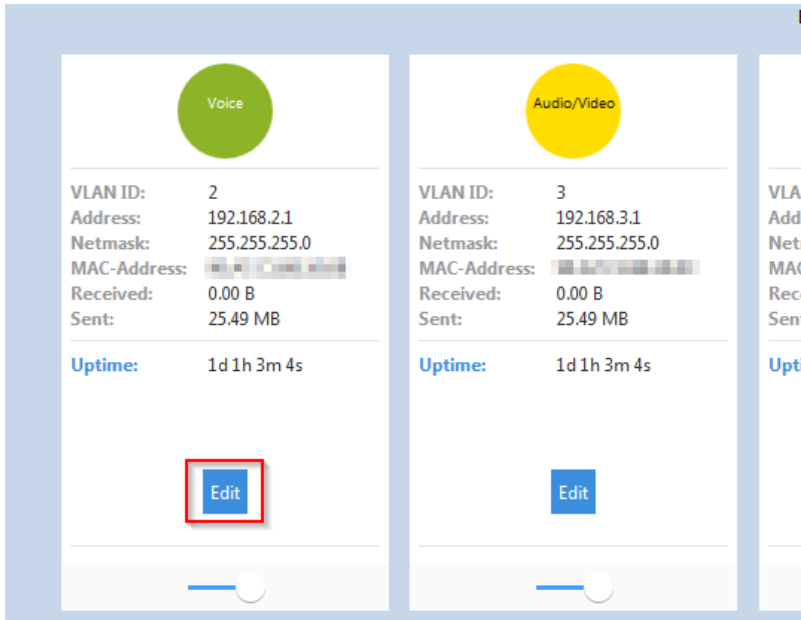


2. VLANs 2-6 will be displayed towards the bottom.

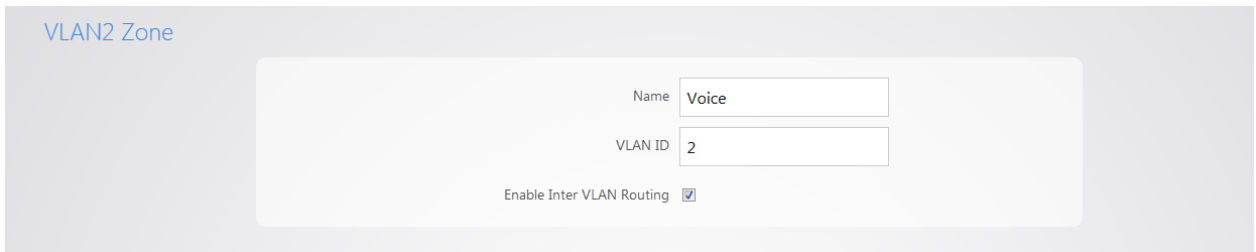


3. The **Network Bonding** option allows devices that use multicast messaging to communicate across VLANs.

4. Click **Edit** under any of the VLANs to view its settings. As an example, we will click **Edit** under VLAN2.



5. The **Name** field allows you to change the name of the VLAN. By default VLAN2 will be named **Voice**. The **VLAN ID** allows you to use a different VLAN ID. **Enable Inter VLAN Routing** allows this VLAN to communicate with other VLANs. Unchecking this option would give VLAN2 internet access only. VLAN 2 would not be able to communicate with any other VLAN, and all other VLANs would not be able to communicate with VLAN2.



6. If you would like to change the IP address of VLAN2 you can enter the new IP in the **IP Address** field. As an example, we will change the IP address of VLAN2 to 192.168.12.1.



7. Towards the bottom you will see the DHCP server settings for VLAN2. We will change the **Start IP** address to 192.168.12.100 and the **End IP** address to 192.168.12.249 so that it matches the new IP scheme.

DHCP Server

Enable DHCP Server

[Enable DHCP Server on this zone](#)

Start

[Lowest leased address.](#)

End

[Highest leased address.](#)

Lease time

[Expiry time of leased addresses, such as, 7d or 12h or 60m. minimum is 2 Minutes \(2m\).](#)

8. The **Lease time** field allows you to view/modify DHCP IP address lease time. The following format must be used: A **D** represents days, an **H** represents hours and an **M** represents minutes. For example, if you wanted to change the lease time to be 3 days 2 hours and 30 minutes you would set the lease time to **3D2H30M**.

Enable DHCP Server

[Enable DHCP Server on this zone](#)

Start

[Lowest leased address.](#)

End

[Highest leased address.](#)

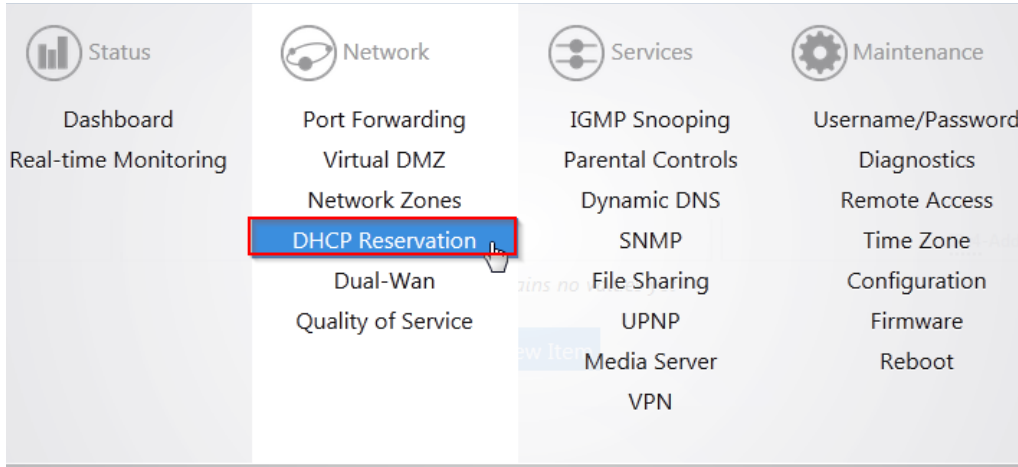
Lease time

[Expiry time of leased addresses, such as, 7d or 12h or 60m. minimum is 2 Minutes \(2m\).](#)

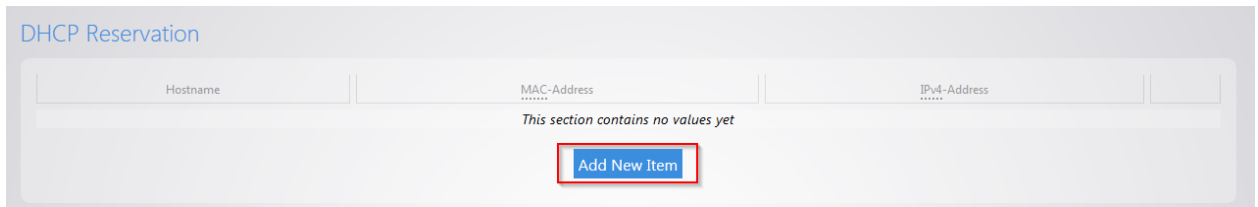
DHCP RESERVATION

DHCP reservation allows the router to continually assign the same IP address to a device. To create a DHCP reservation, take the following steps.

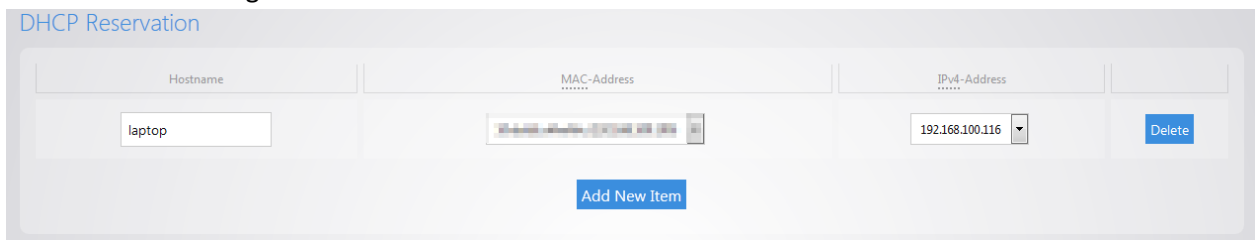
1. Click **DHCP Reservation**.



2. Click **Add New Item**.



3. For the **Hostname** field, fill out a name. For the **MAC-address** field, click the drop down menu and select the device you would like to make a reservation for. You can also manually enter the mac address of the device. When entering the mac address, use colons. For example, **aa:bb:cc:dd:ee:ff**. In the **IPv4-Address** field, select **custom** and enter the IP address that you would like to assign to the device.

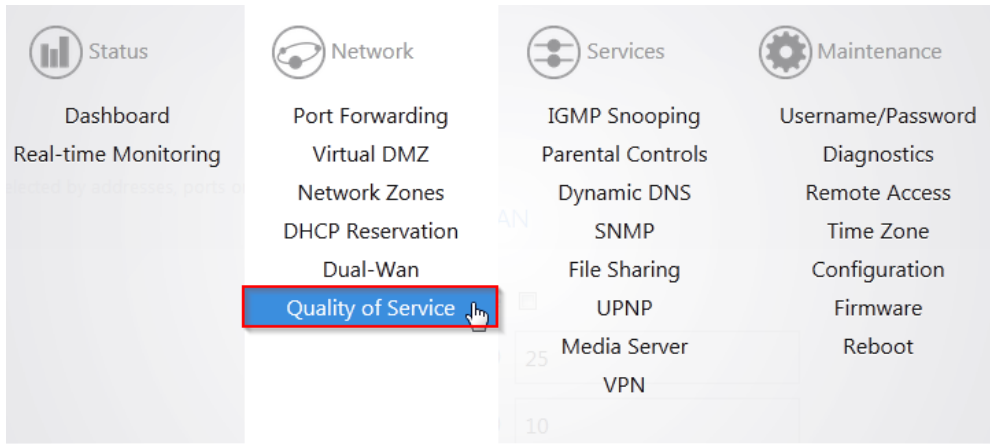


4. Click **Apply** when finished. You may need to restart the network card of your device in order for it to receive the new IP address.

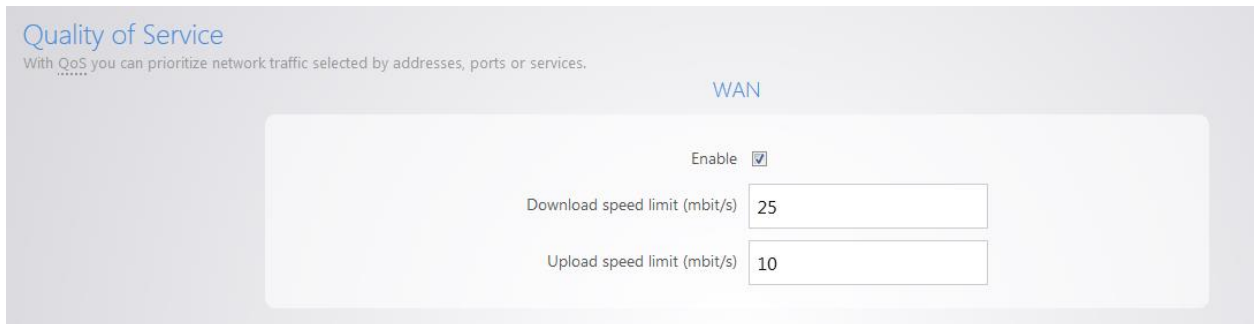
QUALITY OF SERVICE

Quality of Service (QoS) allows you to prioritize data on the network. For example, there are certain applications which require the least amount of latency possible. You can prioritize this type of traffic so that it is sent ahead of other data that can function properly with some latency, such as ordinary web traffic. To configure **QoS** take the following steps.

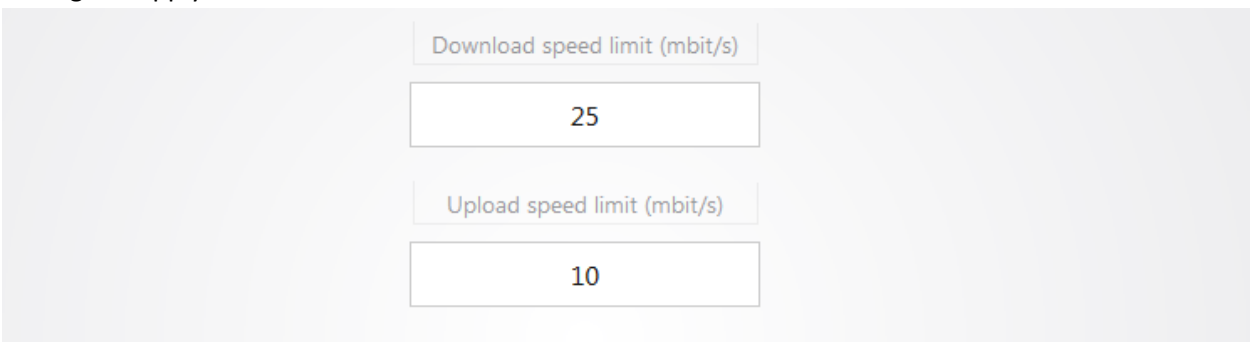
1. Click **Quality of Service**.



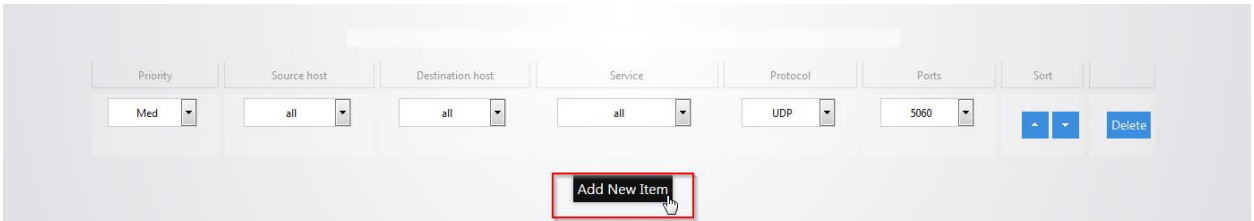
2. Check **Enable**.



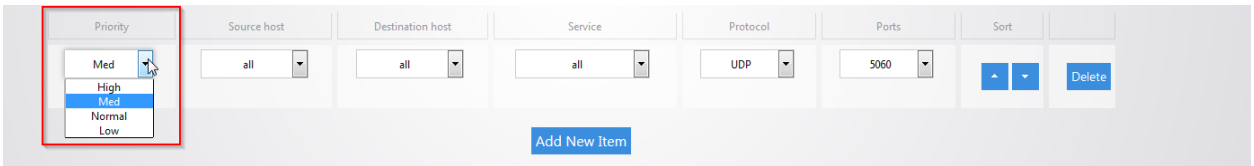
3. You can restrict download and upload speeds on this page. For example, in the following image we have set 25 Mbps as the limit for download and 10 Mbps as the limit for upload speeds. This setting will apply to all devices on the network.



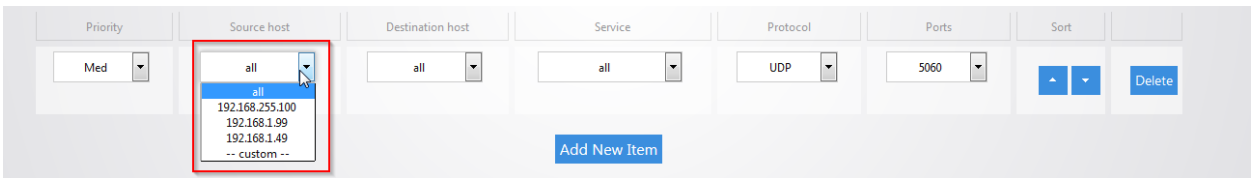
4. If you want to create a new QoS policy to prioritize certain data, click **Add New Item**.



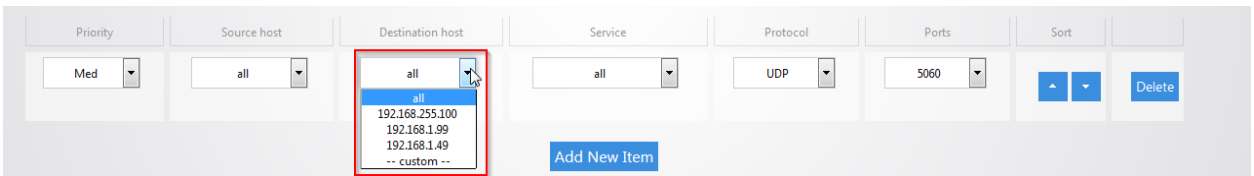
5. The **Priority** column allows you to select the priority of the data



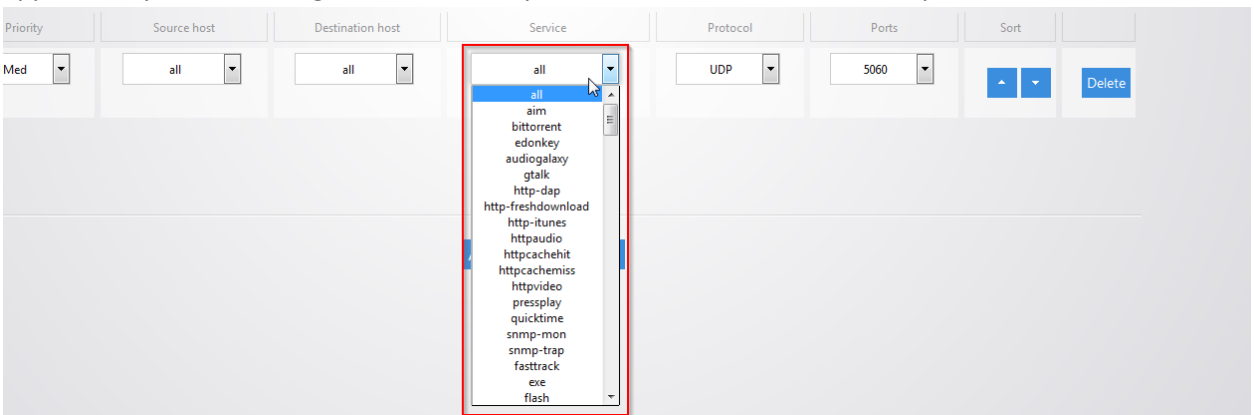
6. The **Source host** column allows you to define which source IP address the policy will apply to. If you select **all**, the policy will apply to all devices on the network. If your device is listed in the drop down menu you can select it, otherwise select **custom** and manually enter the IP address.



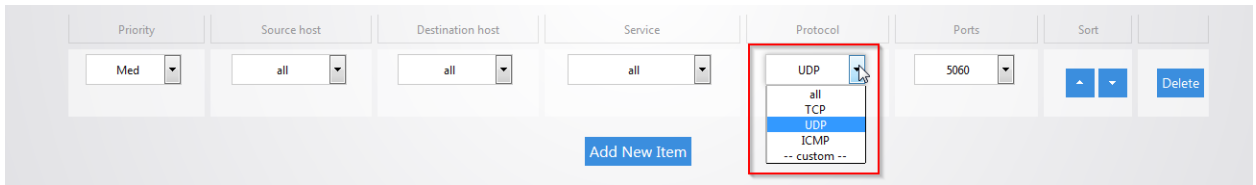
7. The **Destination host** column allows you to define which IP destination address the policy will apply to. If you select **all** then the policy will apply to any IP address on the internet.



8. The **Service** column has a list of common applications that you may want to prioritize. If the application you are looking for is on the list you can select it as the service to prioritize.

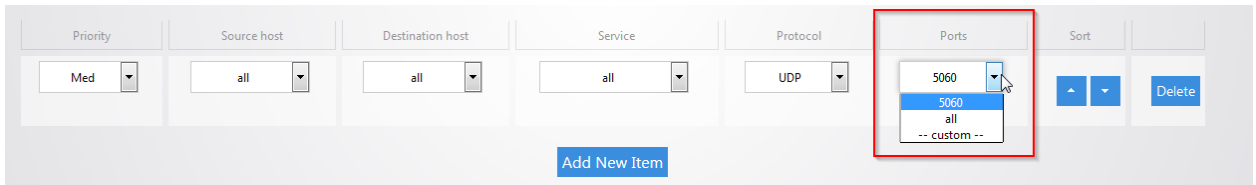


9. The **Protocol** column allows you to select whether the data that you are prioritizing is TCP or UDP. If you are unsure you can simply select all which will use both.



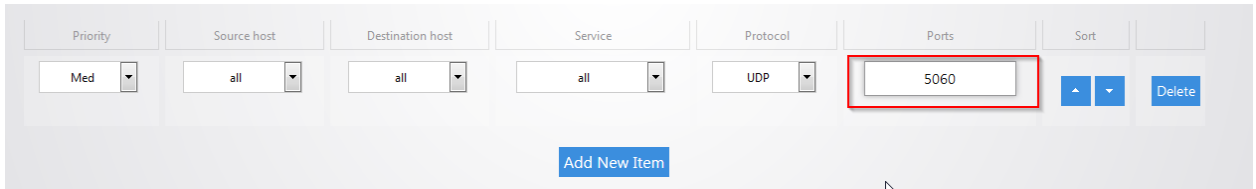
The screenshot shows a configuration form with several columns: Priority (Med), Source host (all), Destination host (all), Service (all), Protocol (all), Ports (5060), Sort (up/down arrows), and a Delete button. The Protocol dropdown menu is open, showing options: UDP, all, TCP, UDP, ICMP, and -- custom --. The 'all' option is highlighted in blue. An 'Add New Item' button is located below the form.

10. The **Ports** column allows you to select which ports the data you are prioritizing uses. Click the drop down menu and select **custom**.



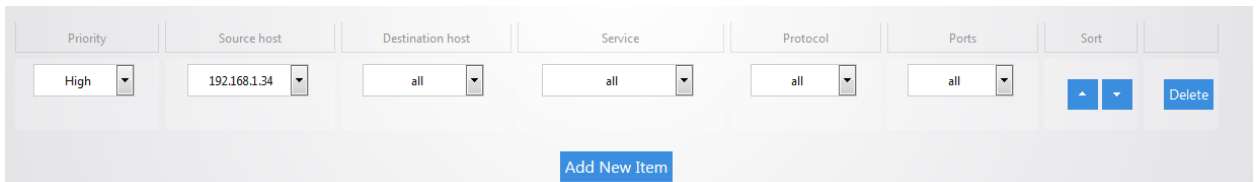
The screenshot shows the same configuration form as in step 9. The Ports dropdown menu is open, showing options: 5060, 5060, all, and -- custom --. The '-- custom --' option is highlighted in blue. An 'Add New Item' button is located below the form.

11. You can then fill in the port number that your application uses.



The screenshot shows the same configuration form. The Ports field now contains the text '5060' and is highlighted with a red box. An 'Add New Item' button is located below the form.

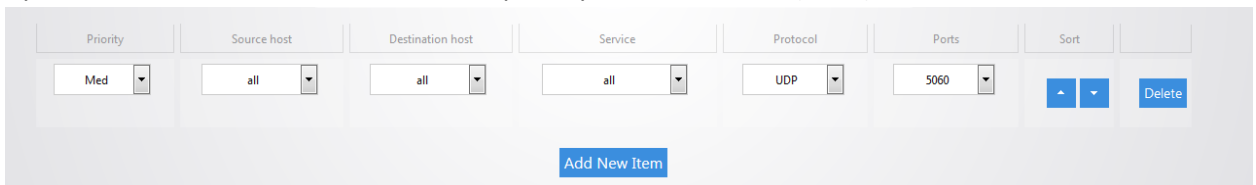
12. For example, we will prioritize the data of a computer on the network. For the **priority** select **High**. Enter **192.168.1.34** as the IP address of the computer for the **source host**. For the **destination host** select **all**, this will ensure that the policy will apply no matter what destination on the internet the computer goes to. For **service** select **all**, **protocol** will also be set to **all**. This means the policy will apply to TCP and UDP data. **Ports** is also set to **all**.



The screenshot shows the configuration form with the following settings: Priority (High), Source host (192.168.1.34), Destination host (all), Service (all), Protocol (all), Ports (all), Sort (up/down arrows), and a Delete button. An 'Add New Item' button is located below the form.

13. Click **Apply** to finalize the settings.

14. By default there is a rule defined to allow priority of Voice Over IP (**VOIP**) data.

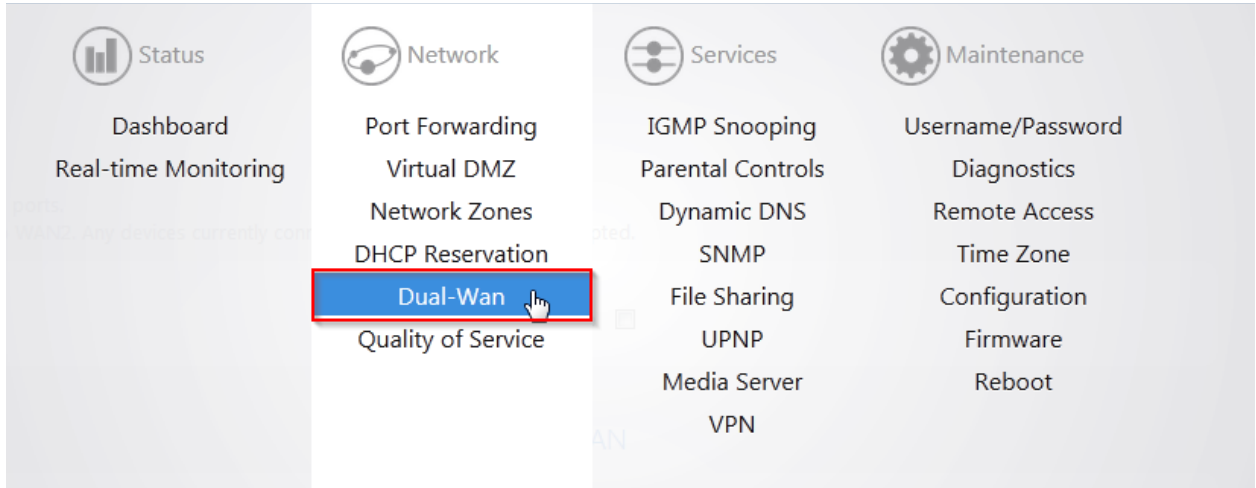


The screenshot shows the configuration form with the following settings: Priority (Med), Source host (all), Destination host (all), Service (all), Protocol (UDP), Ports (5060), Sort (up/down arrows), and a Delete button. An 'Add New Item' button is located below the form.

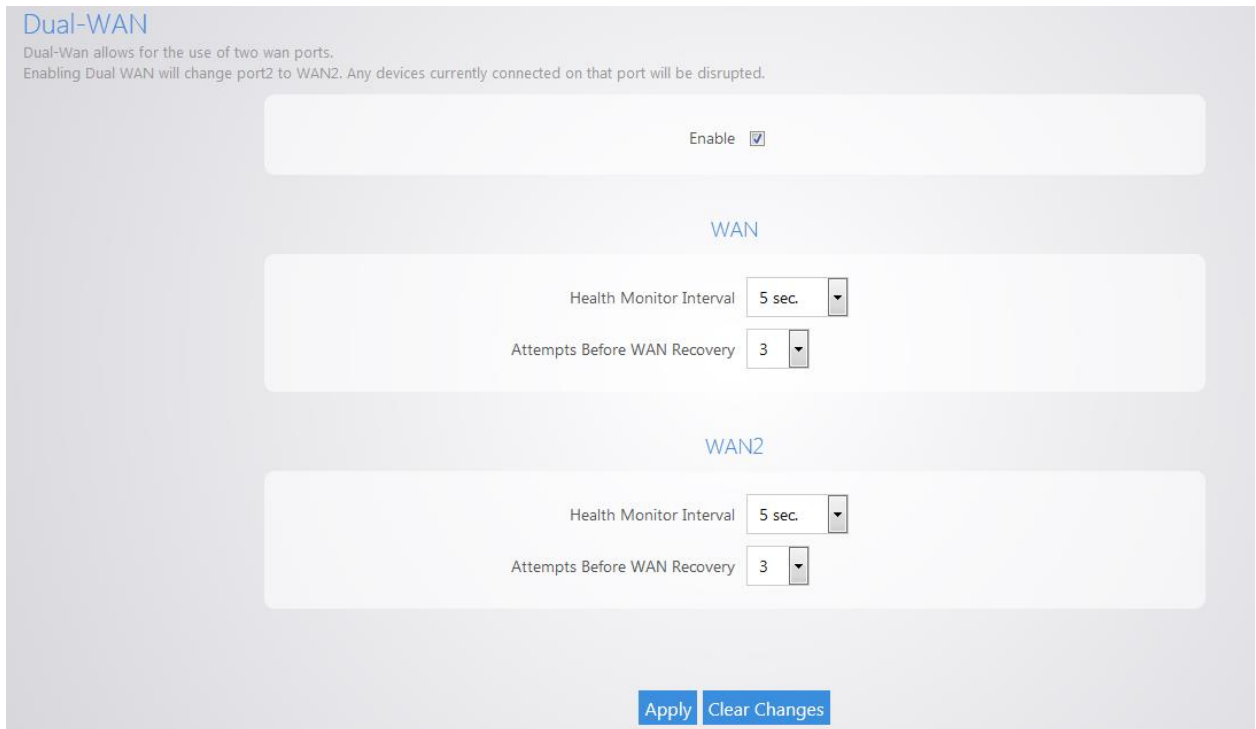
DUAL WAN

Dual Wan allows you to use two wan ports on the router in redundancy mode. If WAN1 loses internet access WAN2 will take over. To configure **Dual Wan** take the following steps.

1. Click **Dual Wan**.



2. Check the enable box. WAN1 will now check connectivity every 5 seconds to make sure that it is still up and running. When WAN1 is no longer able to get onto the internet it will switch over to WAN2. Once the router detects that WAN1 is back up it will switch back to WAN1.



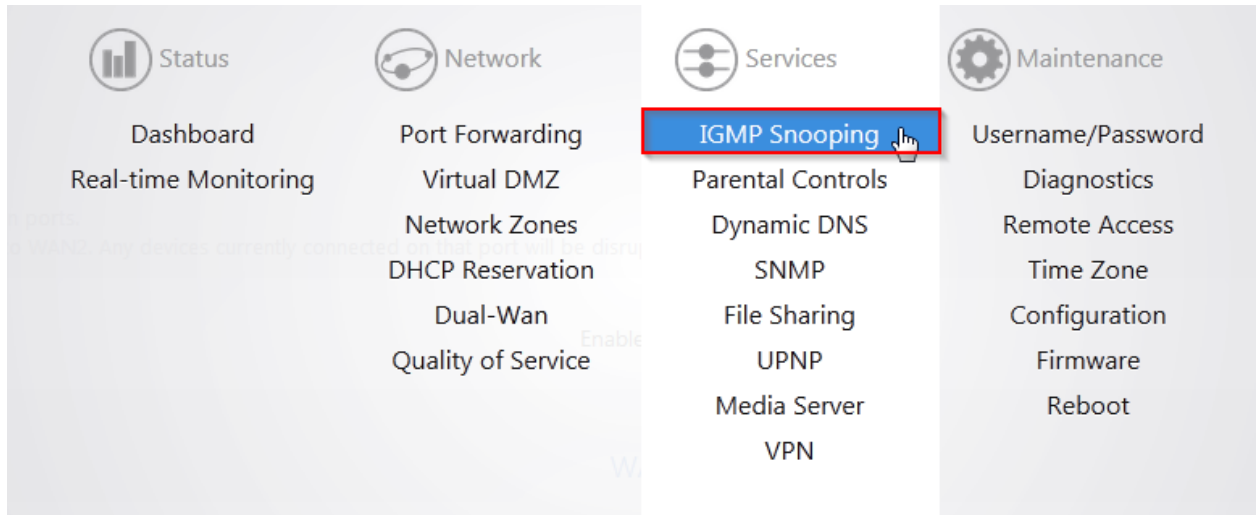
Note: When you enable dual wan, port 2 of the router will become the secondary wan port. If you have any devices connected on port 2 they will lose connectivity to the internal network and need to be moved to a different port.

3. Click **Apply** to finalize the settings.

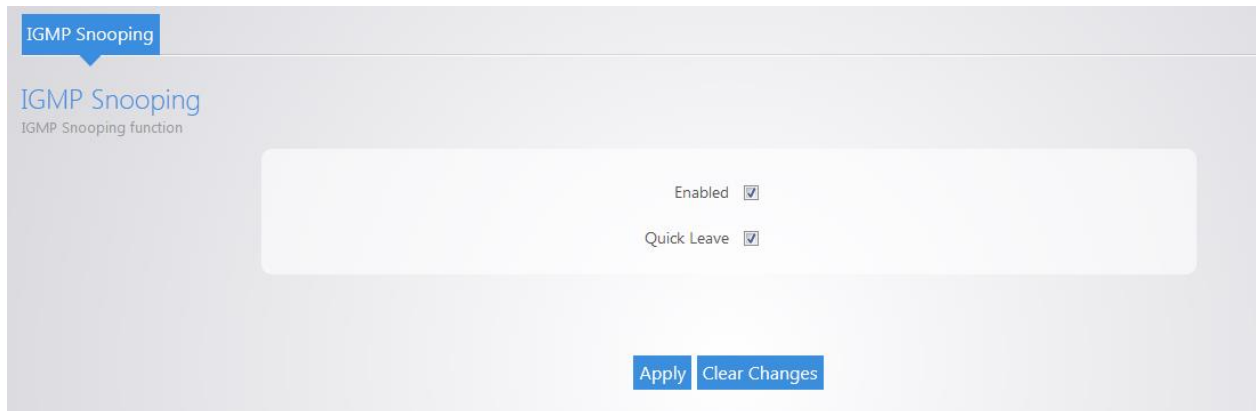
IGMP SNOOPING

IGMP Snooping allows the router to assist in determining which devices on the network need to listen for multicast traffic. To configure **IGMP Snooping** take the following steps.

1. From the **Services** menu, click **IGMP Snooping**.



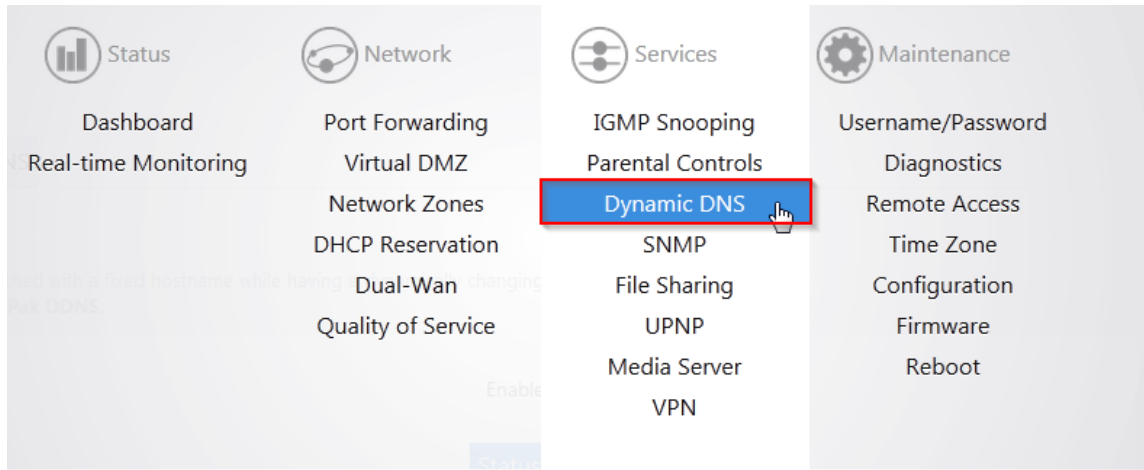
2. Check the enable box. The **Quick Leave** option allows devices to leave a multicast group if they desire. It is recommended to leave this option enabled. Click **Apply** to finalize the settings.



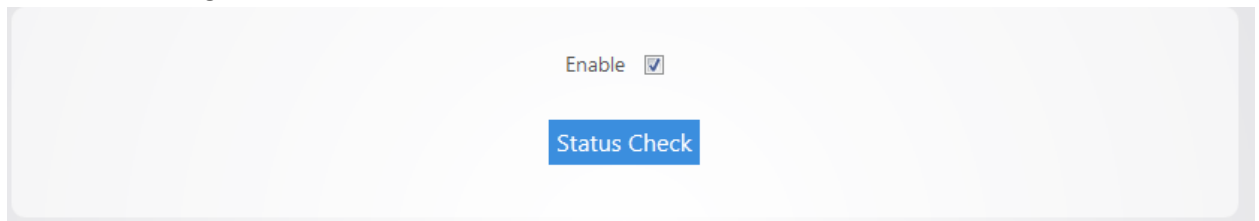
DYNAMIC DNS

Dynamic DNS (**DDNS**) allows your router to be reached with a fixed hostname while having a dynamically changing IP address. The RE-2 has two options for DDNS. The first is under the **Pakedge DDNS** tab. Pakedge offers its own DDNS service that works alongside our Bakpak cloud system. To create a Pakedge DDNS take the following steps.

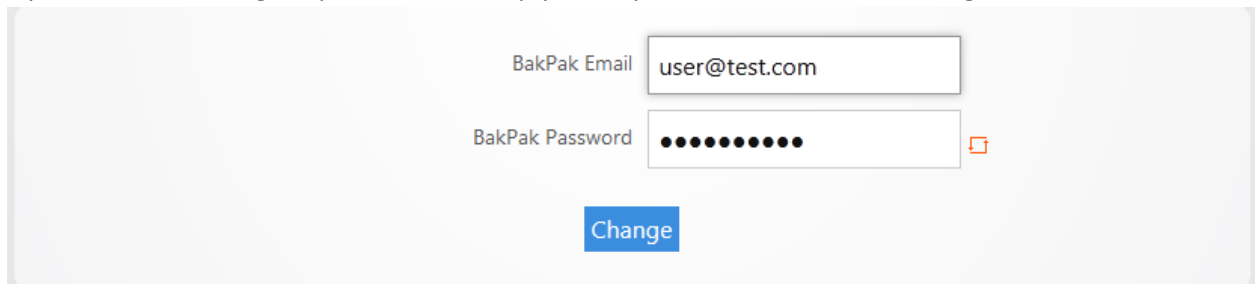
1. Click **Dynamic DNS**.



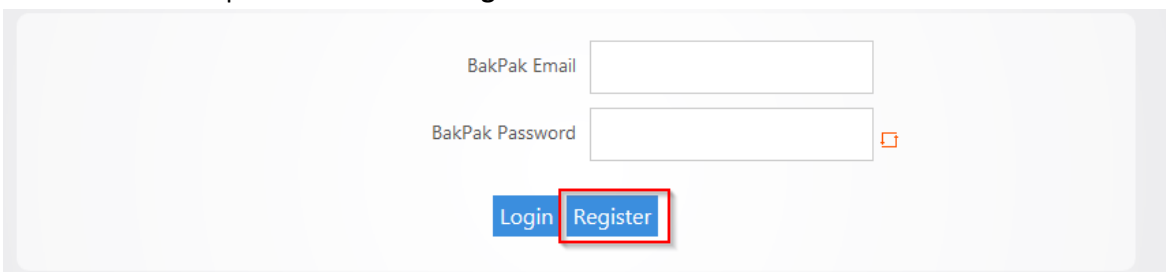
2. Under the Pakedge DDNS tab, check **Enable**.



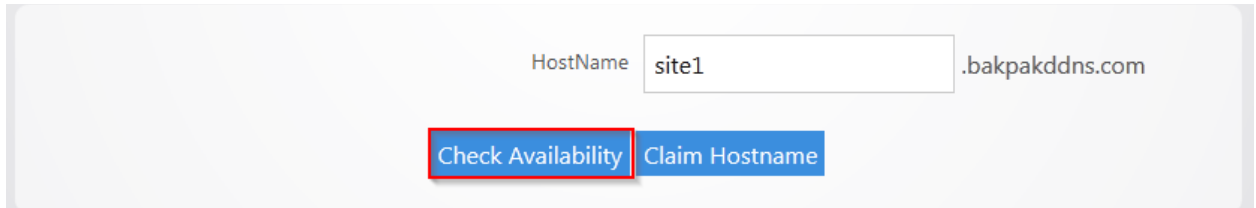
3. If you have an existing Bakpak account, simply enter your credentials and click **login**.



4. If you don't have a Bakpak account, you can register for an account to use. Simply enter an email address and password and click **register**.



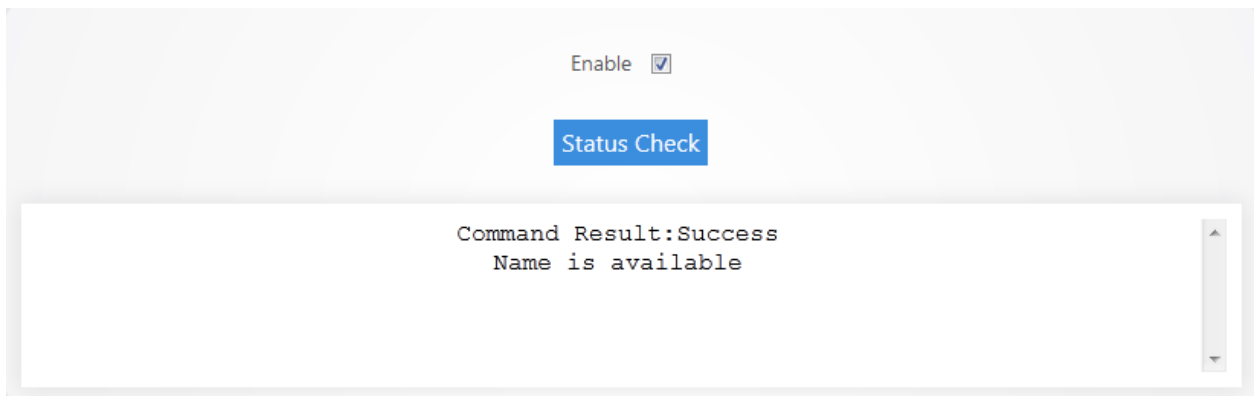
- Once you are logged in with your Bakpak credentials, scroll down to the **HostName** field. Pakedge DDNS uses the *name.bakpakddns.com* namespace, where *name* is a name you choose. Enter a name you would like to use and click **Check Availability** to have the router check if that name is available. In the following example we will check to see if **site1.bakpakddns.com** is available.



HostName .bakpakddns.com

Check Availability Claim Hostname

- Once you click **Check Availability**, scroll towards the top to see if your name is available. Here we can see that the name we choose is available for use.

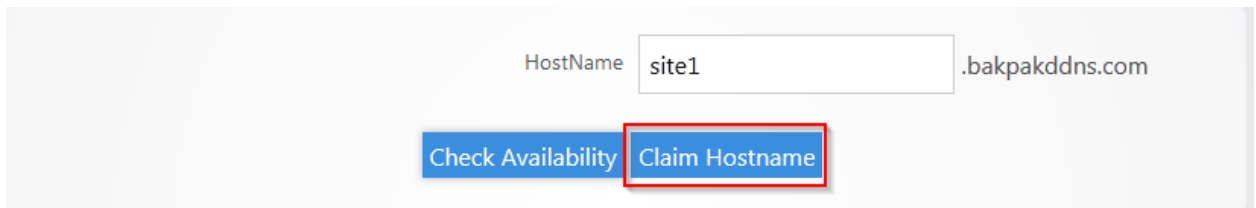


Enable

Status Check

```
Command Result:Success
Name is available
```


- Now that we know the name we want is available we can click **Claim Hostname**.



HostName .bakpakddns.com

Check Availability **Claim Hostname**

- Scroll towards the top and you will see a message stating that you have claimed your name. The RE-2 is now using the name we have claimed.

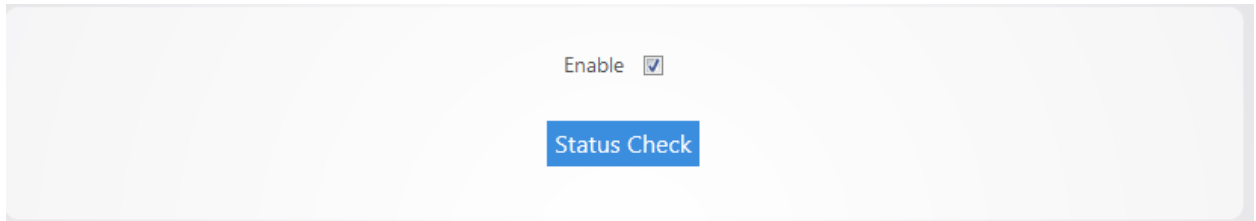


Enable

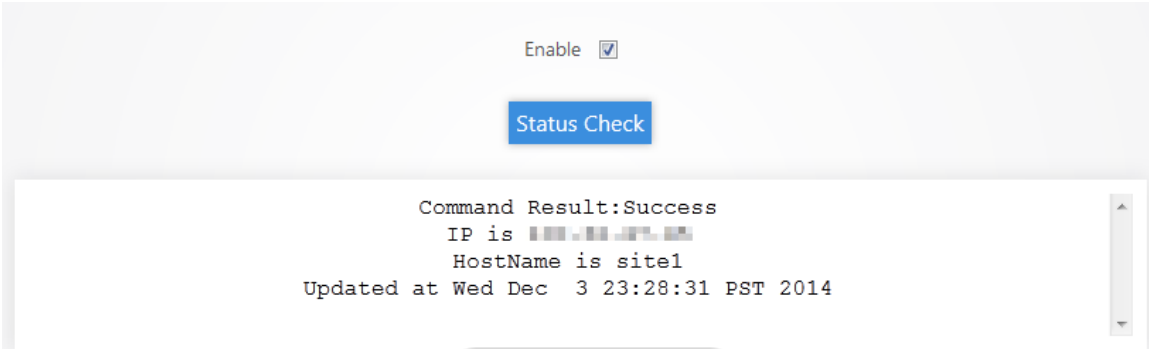
Status Check

```
Command Result:Name Claimed.
```

9. You can click on **Status Check** in order to see the status of your Pagedge DDNS.

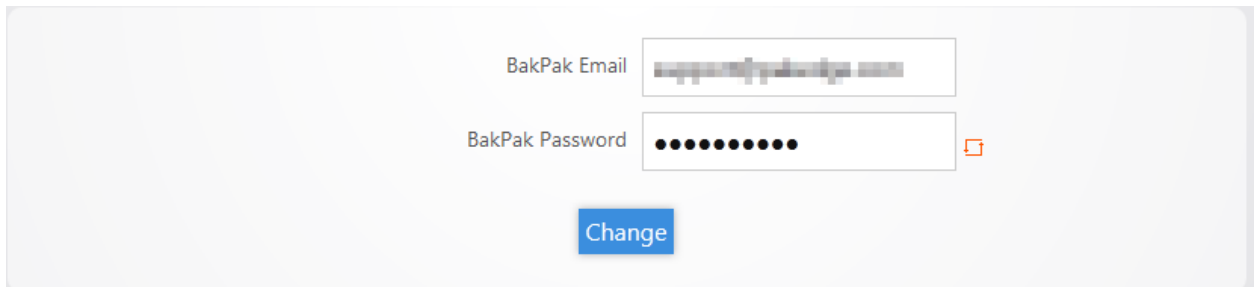


10. The router will display the status of the Pagedge DDNS giving you the hostname that the router is currently using.

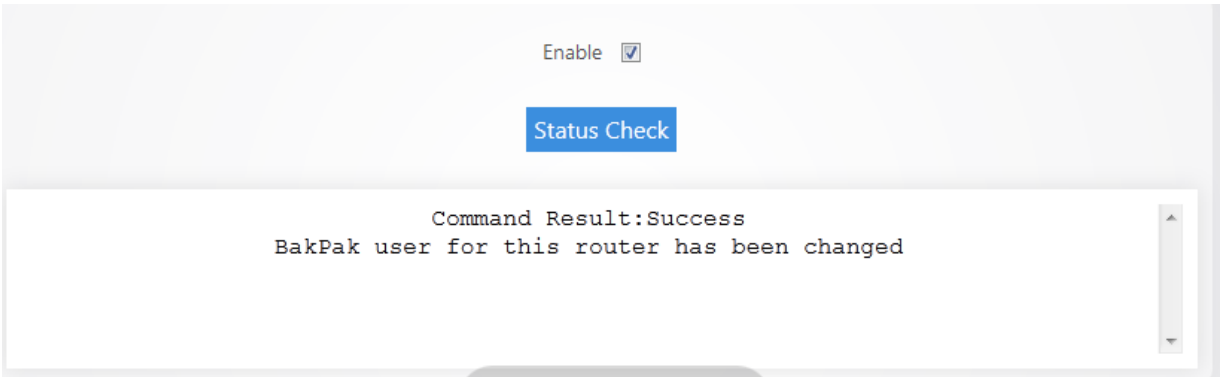


11. You can change the hostname you are using at any given time by simply entering a new hostname into the router that is available for use and then clicking claim **hostname**.

12. You can change the Bakpak user on the router at any given time by simply entering the new credentials and clicking **Change**.



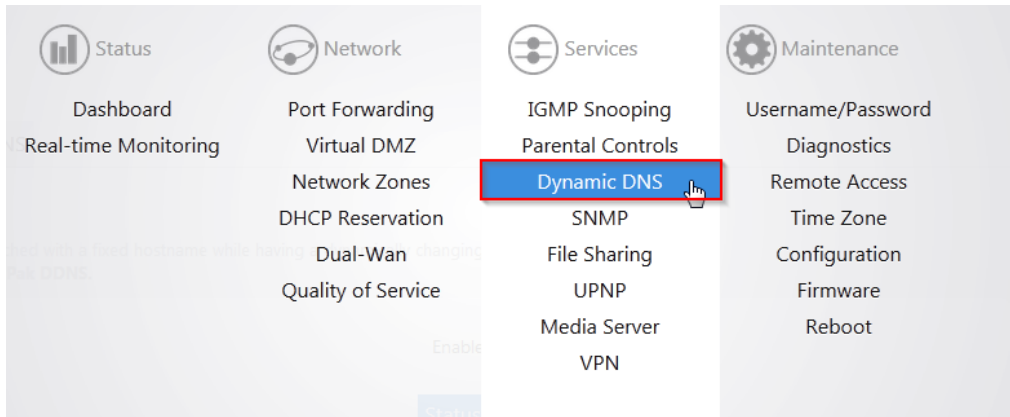
13. You will see a message towards the top letting you know that the Bakpak user has been changed.



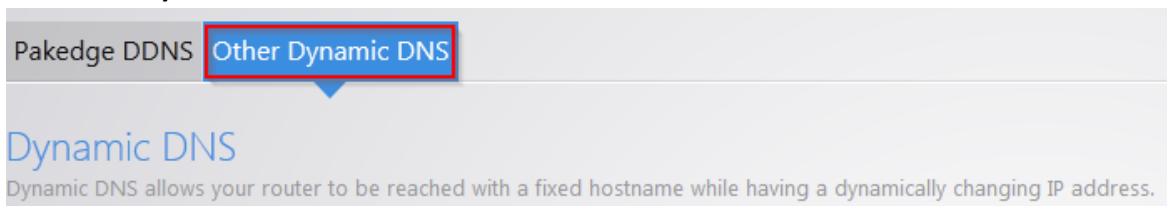
Note: You can only register for a new Bakpak user once on the RE-2. Once you have registered for a Bakpak user once, the register button will disappear from the GUI.

To configure a non-pakedge DDNS take the following steps.

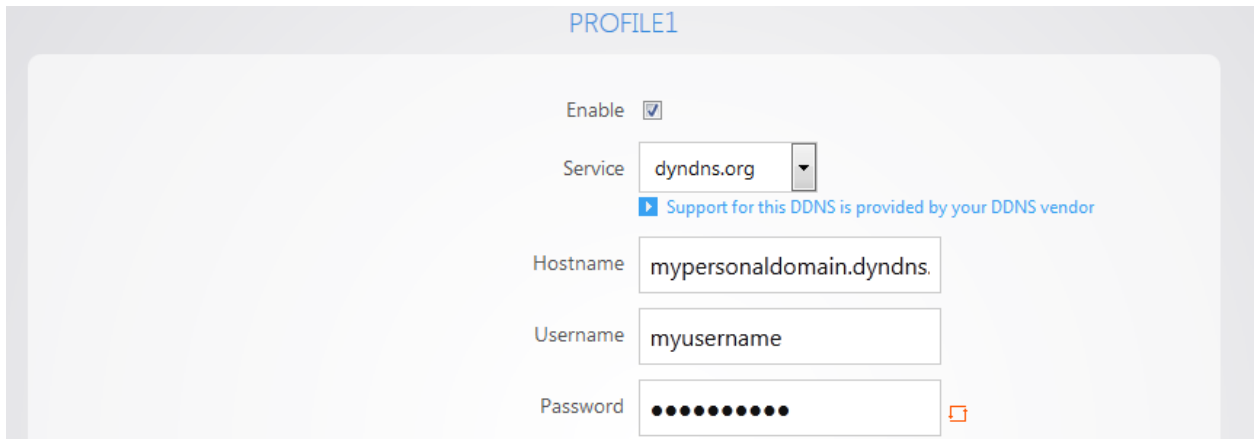
1. Click **Dynamic DNS**.



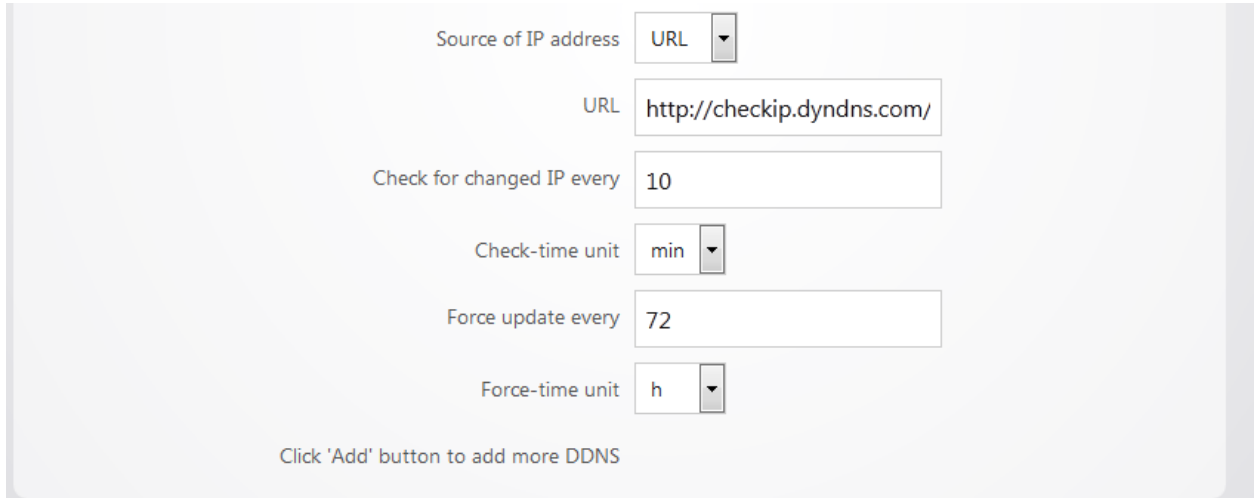
2. Click **Other Dynamic DNS**.



3. Check the enable box. For the **Service** drop down menu, select your DDNS provider. For the **Hostname**, enter the full domain name that you signed up for. In the **Username** field enter the username for your account with your DDNS provider. For the **Password** field, enter the password for your account.



4. For the **Source of IP address** field select **Zone**. For the **Zone** field select **WAN**. The **Check for change IP every** field indicates how often the router will check to see if the WAN IP address has changed. The **Check-time unit** indicates the unit of time that is used for the **Check for changed IP every** field. The **Force update every** field indicates when the router will force an update with the DDNS provider. **The Force-time unit** indicates the unit of time that is used for the **Force update every** field. Click **Apply**.

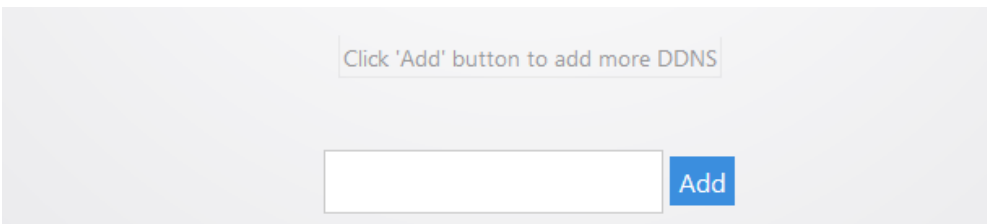


The screenshot shows a configuration form for DDNS. It includes the following fields and values:

- Source of IP address: URL (dropdown menu)
- URL: http://checkip.dyndns.com/ (text input)
- Check for changed IP every: 10 (text input)
- Check-time unit: min (dropdown menu)
- Force update every: 72 (text input)
- Force-time unit: h (dropdown menu)

Below the form, there is a text instruction: "Click 'Add' button to add more DDNS".

5. You can add a secondary DDNS profile to the router. In case the first DDNS provider does not work the secondary profile can act as a backup. To add a secondary profile simply click **Add** and fill out the information as you did in steps 2 and 3.

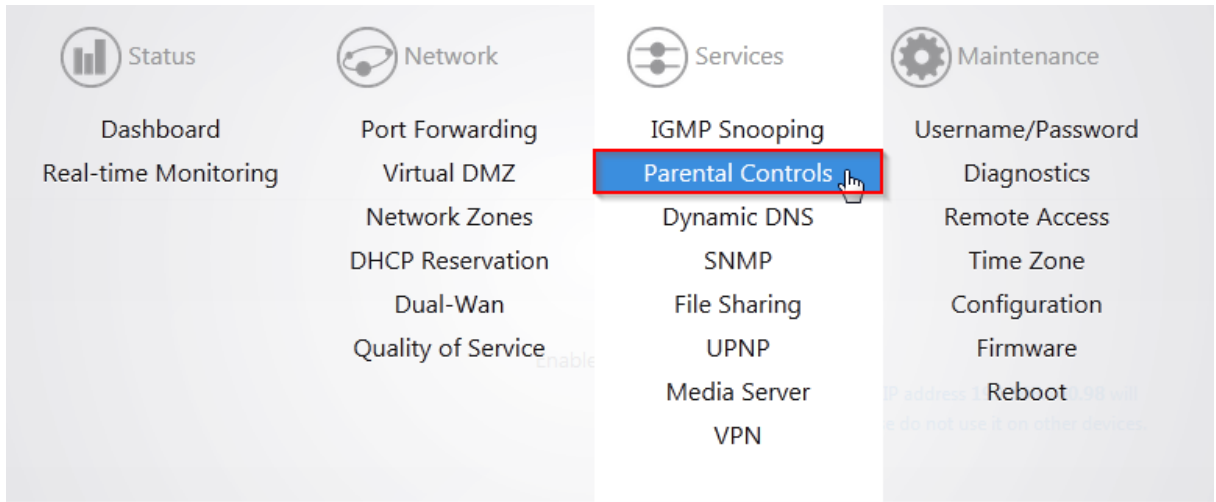


The screenshot shows a button labeled "Add" next to an empty text input field. Above the input field, there is a text instruction: "Click 'Add' button to add more DDNS".

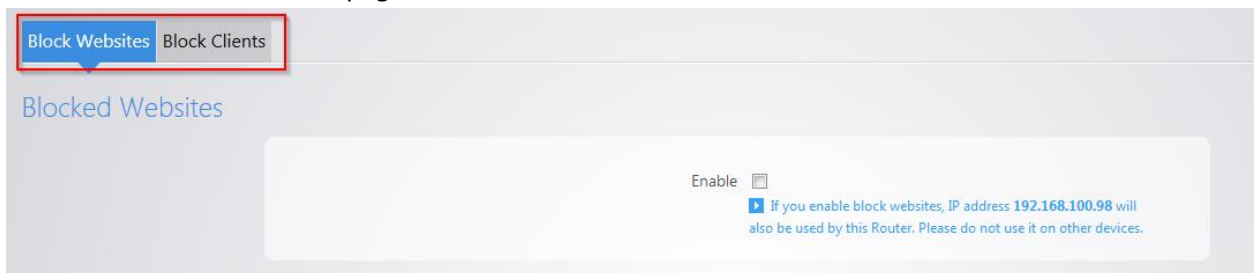
PARENTAL CONTROLS

The **Parental Controls** allow you to block websites and services on your network. For example, you can prevent users from visiting www.yahoo.com or prevent any http traffic from going out to the internet. To configure the **parental controls** take the following steps.

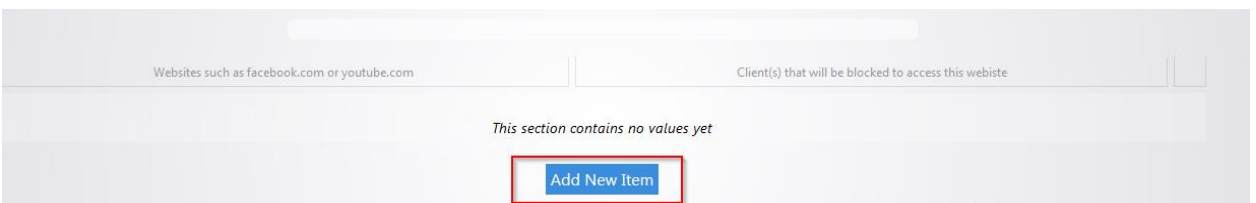
1. From the **Services** menu, click on **Parental Controls**.



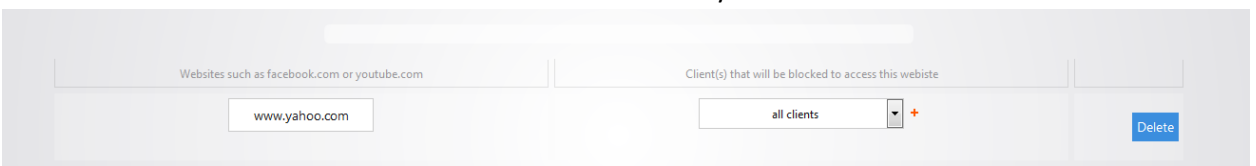
2. You will see two tabs on this page. One is **Block Websites** and the other is **Block Clients**.



3. To block a website from being accessed on the network check the enable box under the **Block Websites** tab and then click on **Add New Item**.



4. Enter the name of the website that you wish to block. In this example we will block www.yahoo.com. Towards the right hand side you can select the device that you want to block the website for. You can select **all clients** to allow it for every device on the network.



5. You can continue adding websites by clicking on **Add New Item**.

The screenshot shows a configuration page for blocking websites. It features a table with two columns: 'Websites such as facebook.com or youtube.com' and 'Client(s) that will be blocked to access this website'. The first row contains 'www.yahoo.com' and 'all clients'. A blue 'Delete' button is next to the entry. Below the table, a blue 'Add New Item' button is highlighted with a red rectangular box.

6. Click **Apply** when you are finished. The websites you entered will now be blocked.

The screenshot shows the configuration page after adding a second website. The table now has two rows: one for 'www.yahoo.com' and one for 'www.facebook.com', both with 'all clients' in the second column. Each row has a blue 'Delete' button to its right.

7. If you use the Block Websites feature the RE-2 will also need to use a secondary IP address on the network. There is a message on the Block Websites page to warn you about this. Please ensure that the IP address listed is not in use by any other device on the network. This secondary IP is only used for the Block Websites feature; the management GUI of the router remains unchanged.

The screenshot shows the 'Enable' checkbox checked. Below it, a blue warning message is highlighted with a red rectangular box: 'If you enable block websites, IP address 192.168.100.98 will also be used by this Router. Please do not use it on other devices.'

Note: Once you have blocked a website on the RE-2 you must clear the DNS cache on any devices on the network. You can do this by rebooting the devices.

8. The Block Clients feature will allow you want to block certain services from accessing the internet. Click **Block Clients**.

The screenshot shows the 'Block Clients' configuration page. At the top, 'Block Clients' is selected in a blue box. Below, there is a table with columns: Description, Clients/Devices, Protocol, Ports, Start Time, Stop Time, Sun, Mon, Tue, Wed, Thu, Fri, Sat. The table is currently empty, with the text 'This section contains no values yet' centered below it. A blue 'Add New Item' button is located at the bottom of the table area.

9. Click **Add New Item** in the bottom box.

The screenshot shows the 'Blocked Clients' form with the following fields: Description, Clients/Devices, Protocol, Ports, Start Time, Stop Time, and a row of checkboxes for days of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat). Below these fields is a text box containing the message 'This section contains no values yet'. At the bottom center, there is a blue button labeled 'Add New Item' which is highlighted with a red rectangular box.

10. Enter a name in the **description** field.

11. For the **Clients/Devices**, hit the drop down menu and you will see a list of devices that the router has discovered on the network. If the device you want to apply to this policy to is listed, you can select it here. Otherwise, click **custom** and then you will be able to manually enter the IP address of the device.

The screenshot shows the 'Blocked Clients' form with the 'Clients/Devices' dropdown menu open. The menu lists several discovered devices, a '-- Please choose --' option, and a '-- custom --' option. The 'Add New Item' button at the bottom is highlighted with a blue box.

12. The protocol field allows you to select whether you want to block TCP, UDP or both for this policy.

The screenshot shows the 'Blocked Clients' form with the 'Protocol' dropdown menu open. The menu lists 'TCP+UDP', 'TCP', 'UDP', and 'All'. The 'Add New Item' button at the bottom is highlighted with a blue box.

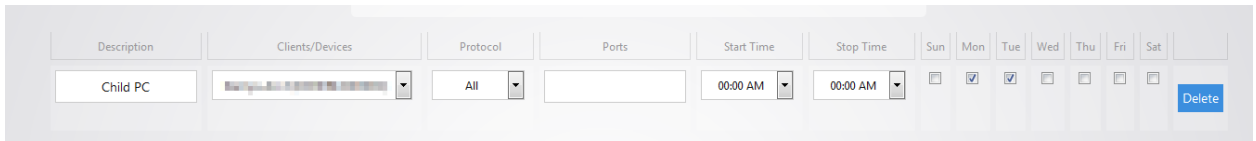
13. The ports field allows you to specify which port you wish to block from going out to the internet. For example, you can type in port 80 and that would deny any traffic that is using that port from going out to the internet.

The screenshot shows the 'Blocked Clients' form with the 'Ports' field containing the value '80'. The 'Add New Item' button at the bottom is highlighted with a blue box.

14. You can also apply a schedule to this policy. You can set the start time and stop time. You can also select which days you wish the policy to apply on. Click **Apply** towards the bottom to finalize the settings.

The screenshot shows the 'Blocked Clients' form with the 'Start Time' set to '12:00 PM', 'Stop Time' set to '06:00 PM', and checkboxes for 'Mon' and 'Tue' selected. The 'Add New Item' button at the bottom is highlighted with a blue box.

15. You can block a device from completely accessing the internet. To do this, set the **Protocol** to **All** and leave the **Ports** field blank.

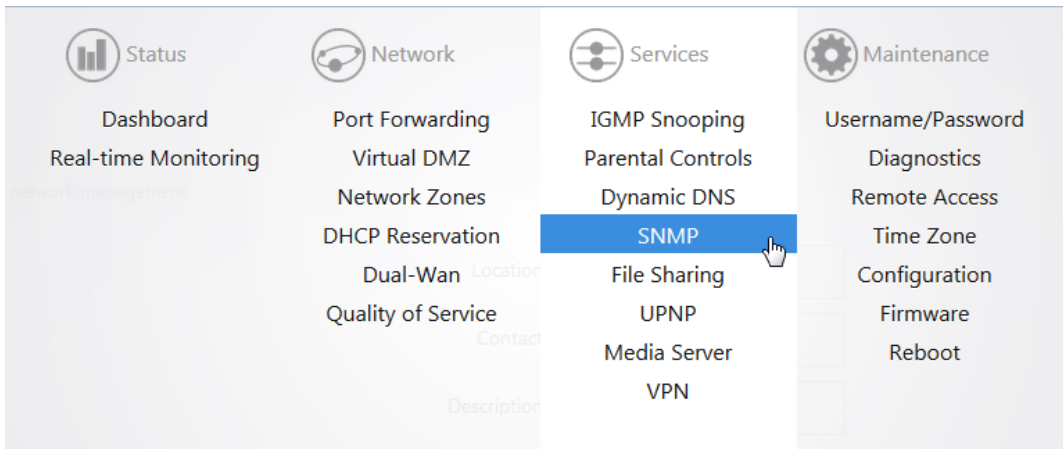


Description	Clients/Devices	Protocol	Ports	Start Time	Stop Time	Sun	Mon	Tue	Wed	Thu	Fri	Sat	
Child PC	[Dropdown]	All		00:00 AM	00:00 AM	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Delete

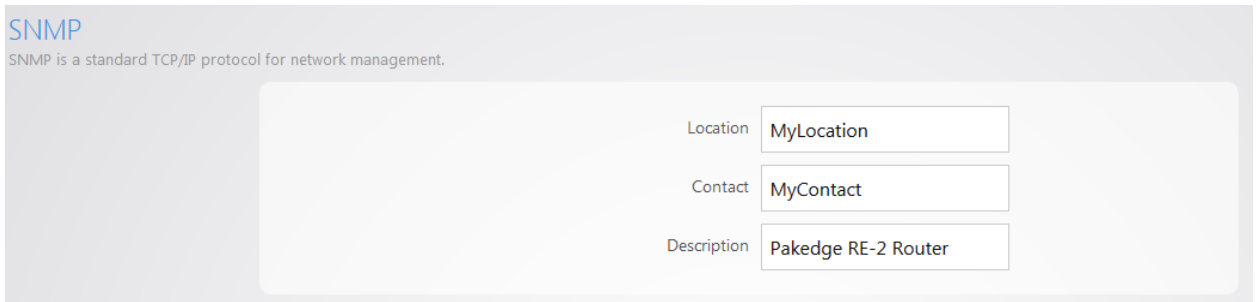
SNMP

Simple Network Management Protocol (**SNMP**) is a standard protocol for network management. By default it is enabled on the RE-2. To view the SNMP settings take the following steps.

1. Click **SNMP**.



2. On this page you will see all of the SNMP options. If you make any changes be sure to click **Apply**.

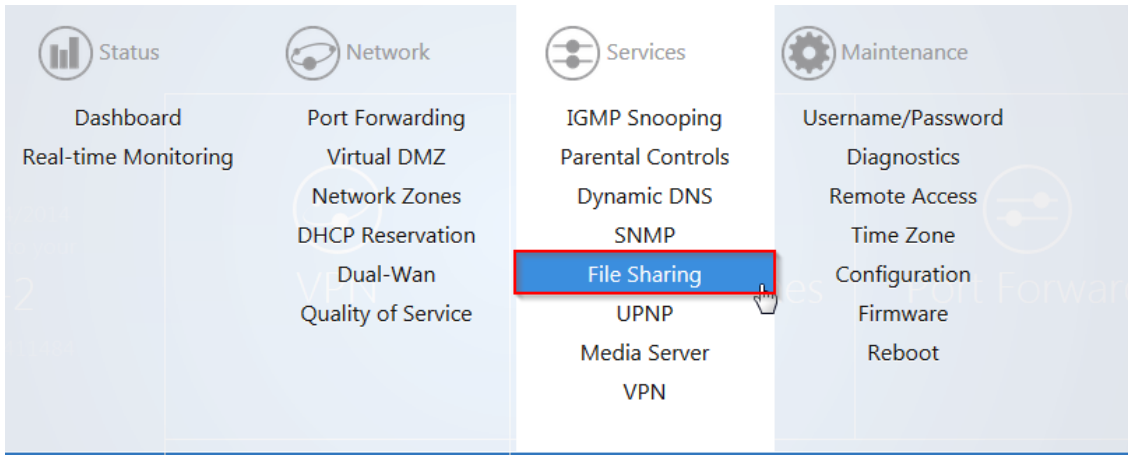


The screenshot shows the SNMP configuration page. It includes a title 'SNMP' and a subtitle 'SNMP is a standard TCP/IP protocol for network management.' Below this, there are three input fields: 'Location' with the value 'MyLocation', 'Contact' with the value 'MyContact', and 'Description' with the value 'Pakedge RE-2 Router'.

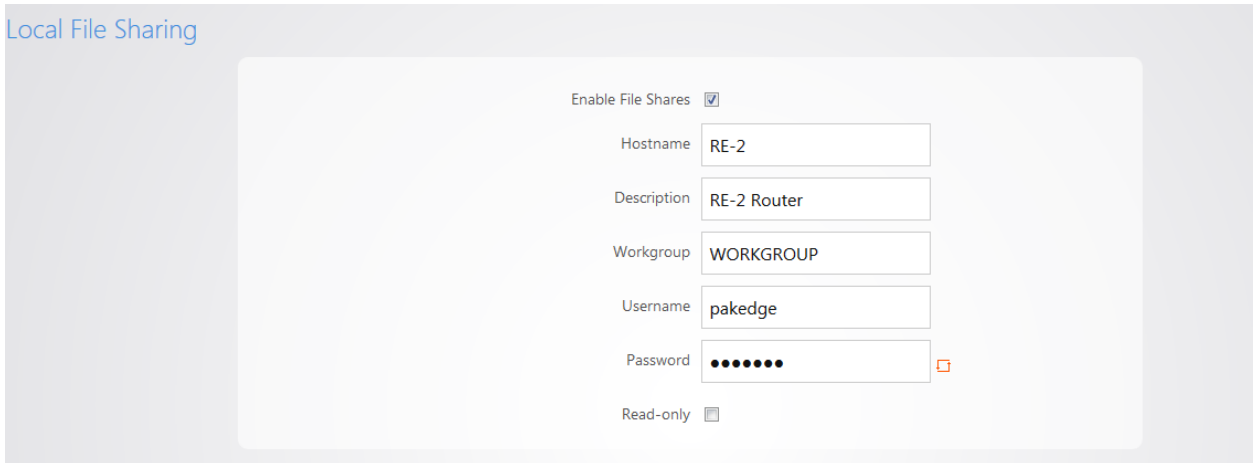
FILE SHARING

File sharing allows you to connect a USB drive onto the router and share resources. The RE-2 offers both Local and Remote file sharing. **Local File Sharing** allows you to share the contents of a USB drive on the local network. To configure local file sharing take the following steps.

1. Click **File Sharing**.

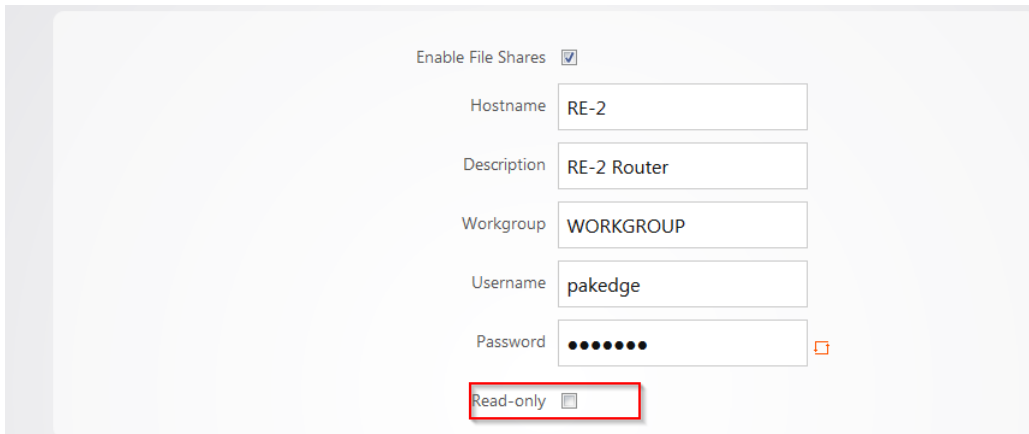


2. Under the **Local File Sharing** tab, check the enable box. Click **Apply**.



3. You can now access the USB drive over the local network.
4. You will be prompted to enter a username and password when attempting to access the USB drive. By default the username is **pakedge** and the password is also **pakedge**.

5. You can check the **Read-only** box so that computers on the network will only be able to read from the drive and not write to it.



Enable File Shares

Hostname RE-2

Description RE-2 Router

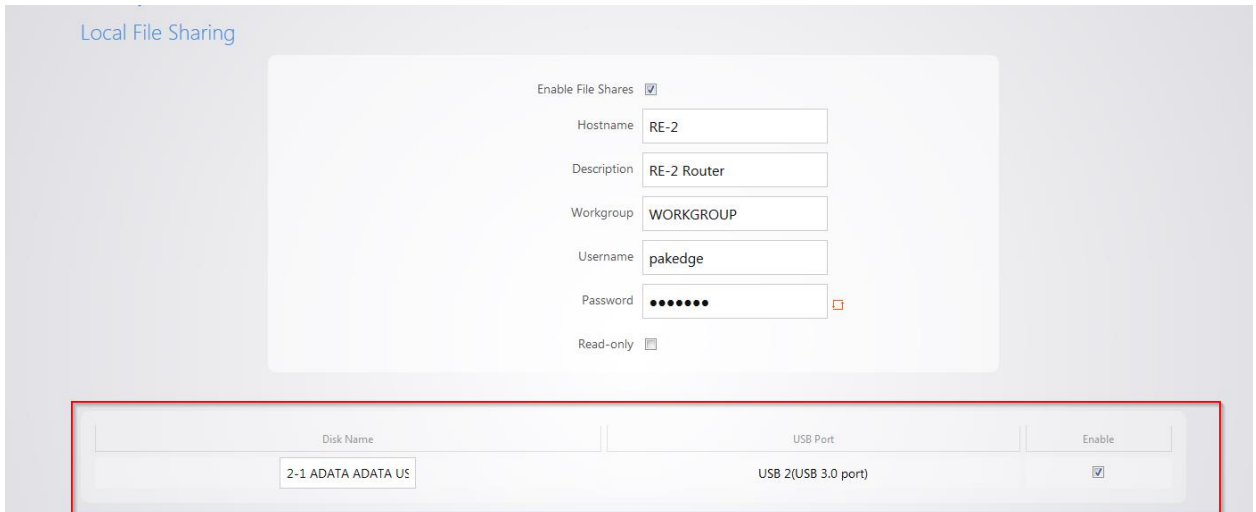
Workgroup WORKGROUP

Username pakedge

Password ●●●●●●

Read-only

6. Once you have enabled the file sharing and connected a USB drive into the RE-2 you will see your drive listed in the file shares menu.



Local File Sharing

Enable File Shares

Hostname RE-2

Description RE-2 Router

Workgroup WORKGROUP

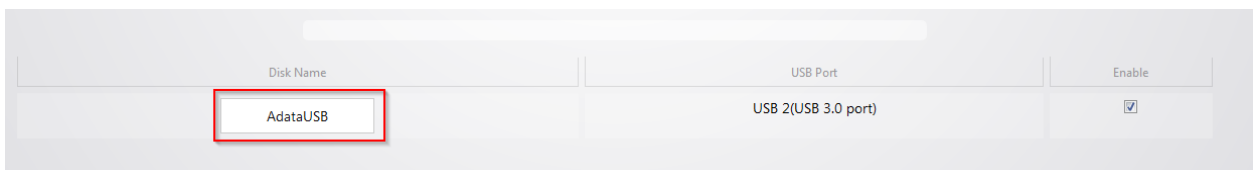
Username pakedge

Password ●●●●●●

Read-only

Disk Name	USB Port	Enable
2-1 ADATA ADATA US	USB 2(USB 3.0 port)	<input checked="" type="checkbox"/>

7. You can rename the **Disk Name**. Doing this can make mapping the USB drive on a computer easier.

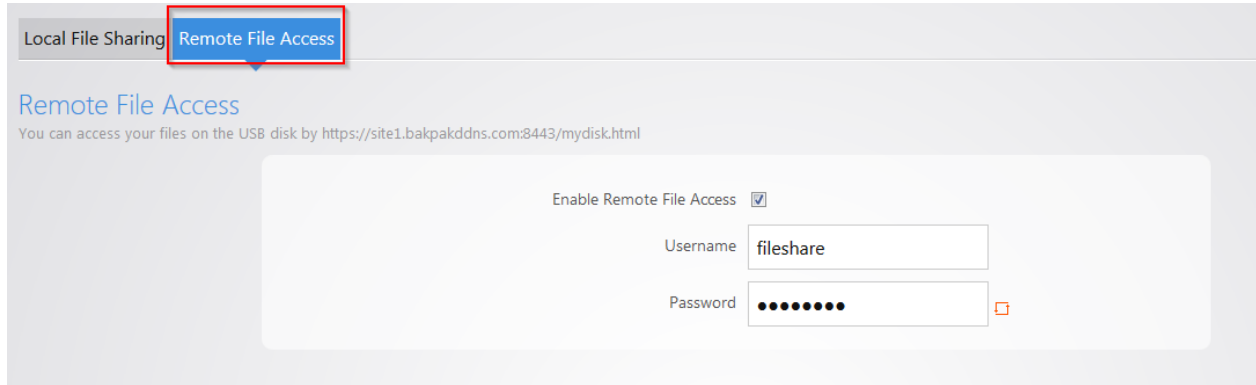


Disk Name	USB Port	Enable
AdataUSB	USB 2(USB 3.0 port)	<input checked="" type="checkbox"/>

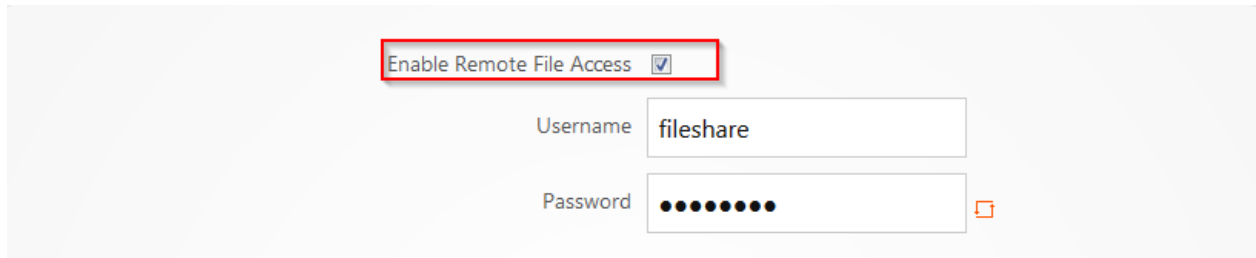
8. Click **Apply** to finalize the settings.

Remote File Sharing allows you to access the contents of your USB drive remotely. To setup remote file sharing take the following steps.

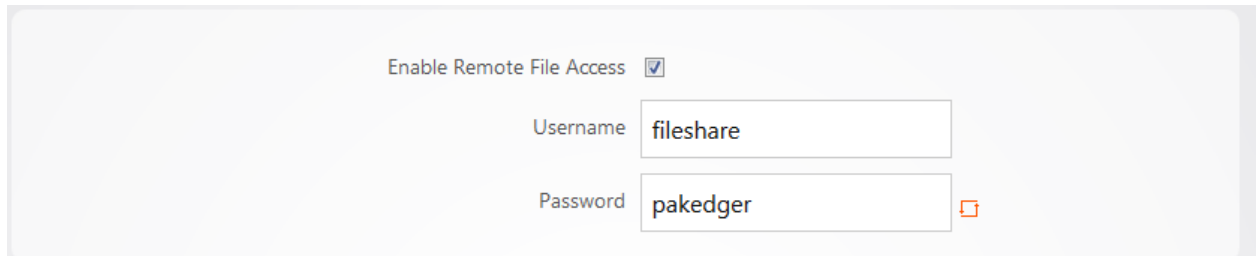
1. Click the **Remote File Access** tab.



2. Check the enable box.



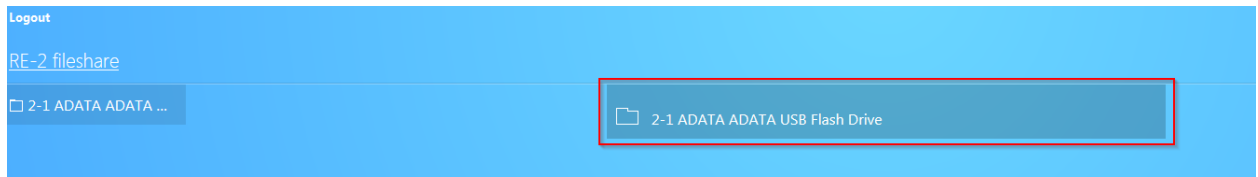
3. The default **username/password** for remote file access will be **fileshare/pakedger** Note: You can change the username and password used to remotely access the USB drive. Simply enter the new credentials and click **Apply**.



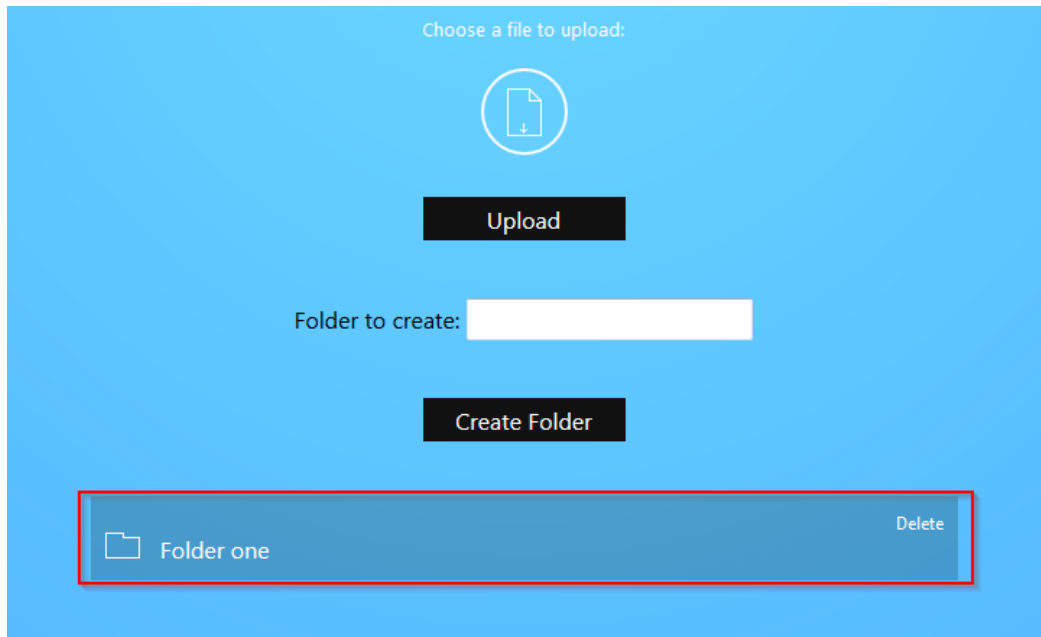
4. Click **Apply** to finalize the settings.
5. To remotely access the USB drive enter the following into a web browser <https://PublicIPAddress:8443/mydisk.html> and press enter. Note: if you configured DDNS on the router you can use that in place of the public IP address.
6. You will see a login screen similar to when you log into the router. Enter the credentials and click **Login**.



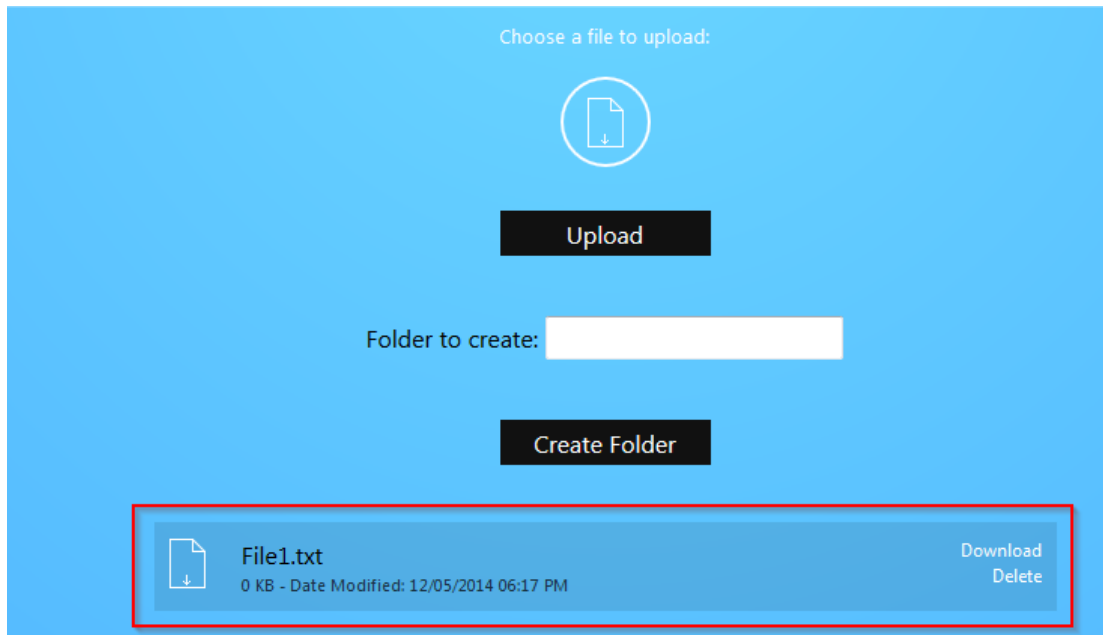
7. You will see the USB drive listed.



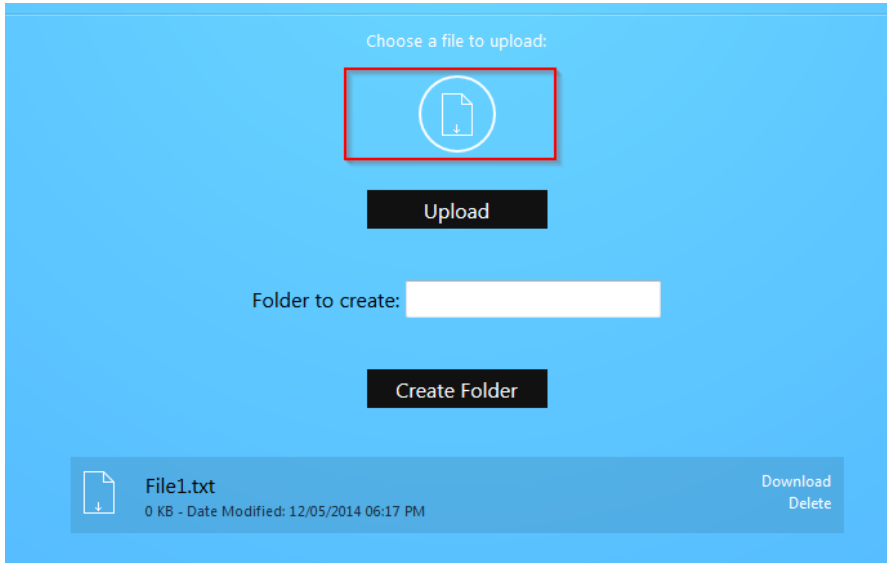
8. You can click on the USB drive to view the files and folders inside of it. Click on a folder to view the contents of it. In our example, we will click on a folder titled **Folder one**.



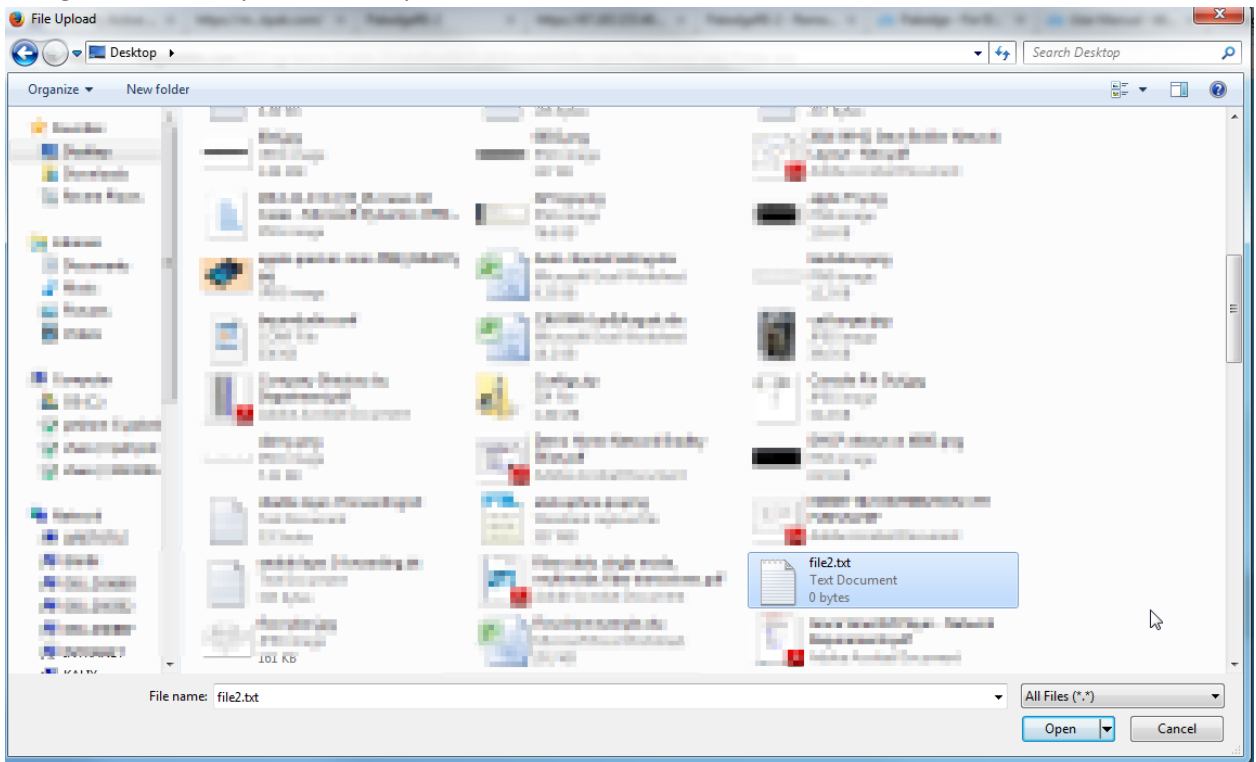
9. You will see the contents of the folder displayed. In this example, we have a single file named **File1**.



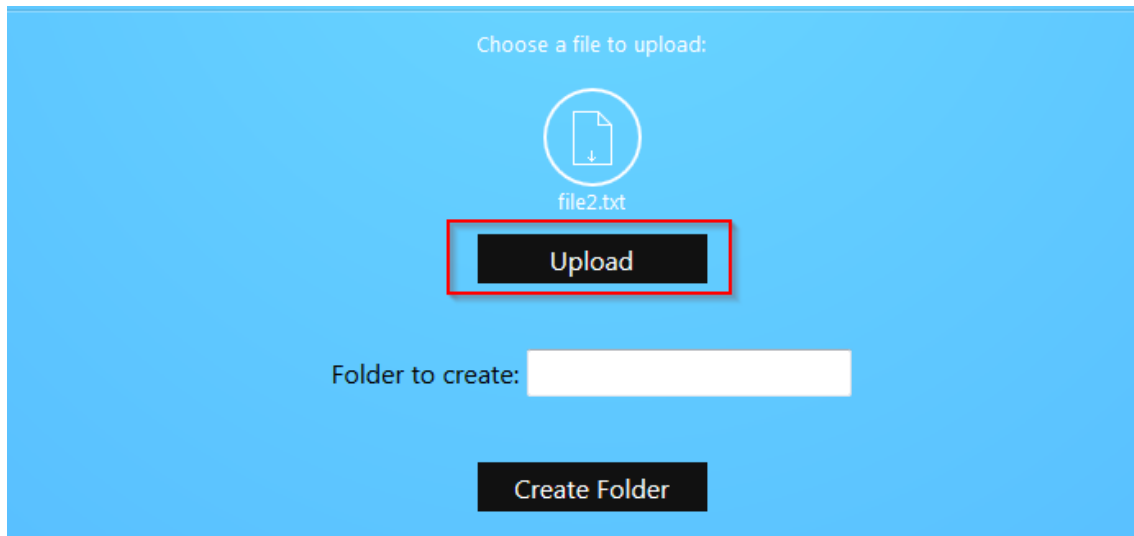
- 10. Click **Download** to retrieve the file from the USB drive. You can also click **Delete** to remove it.
- 11. You can upload a file onto the USB drive remotely. Click on file upload icon.



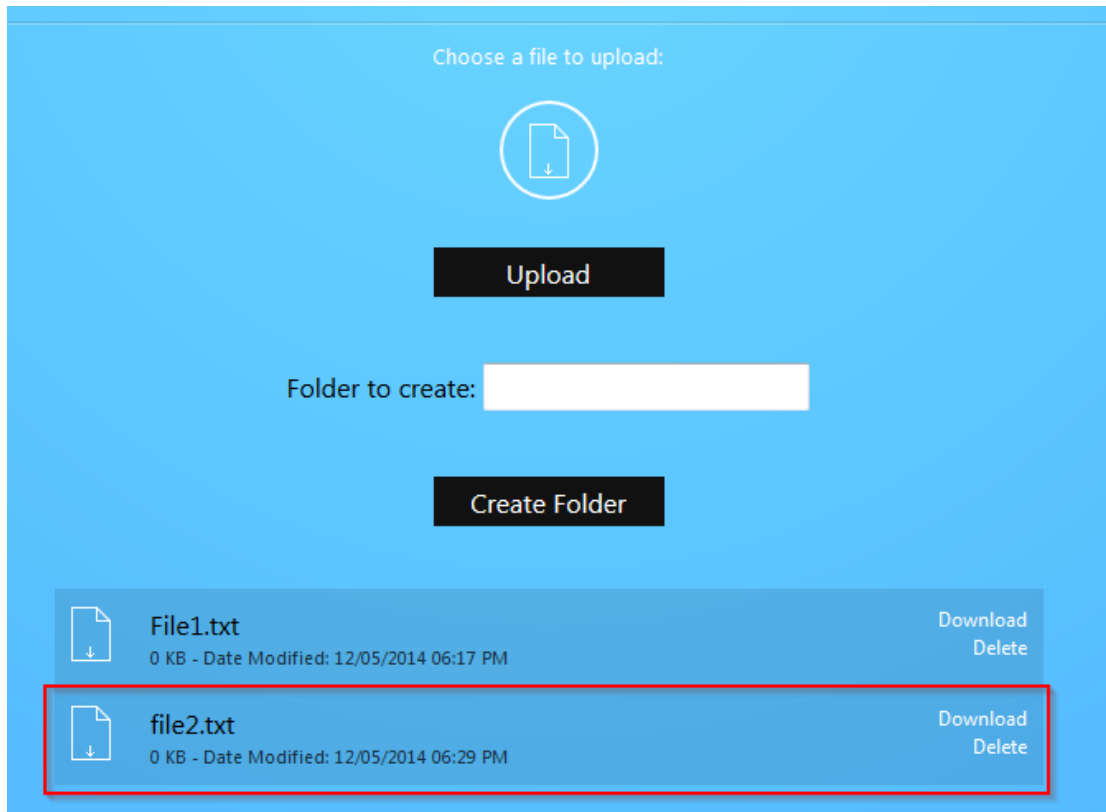
- 12. Navigate to the file you want to upload and select it.



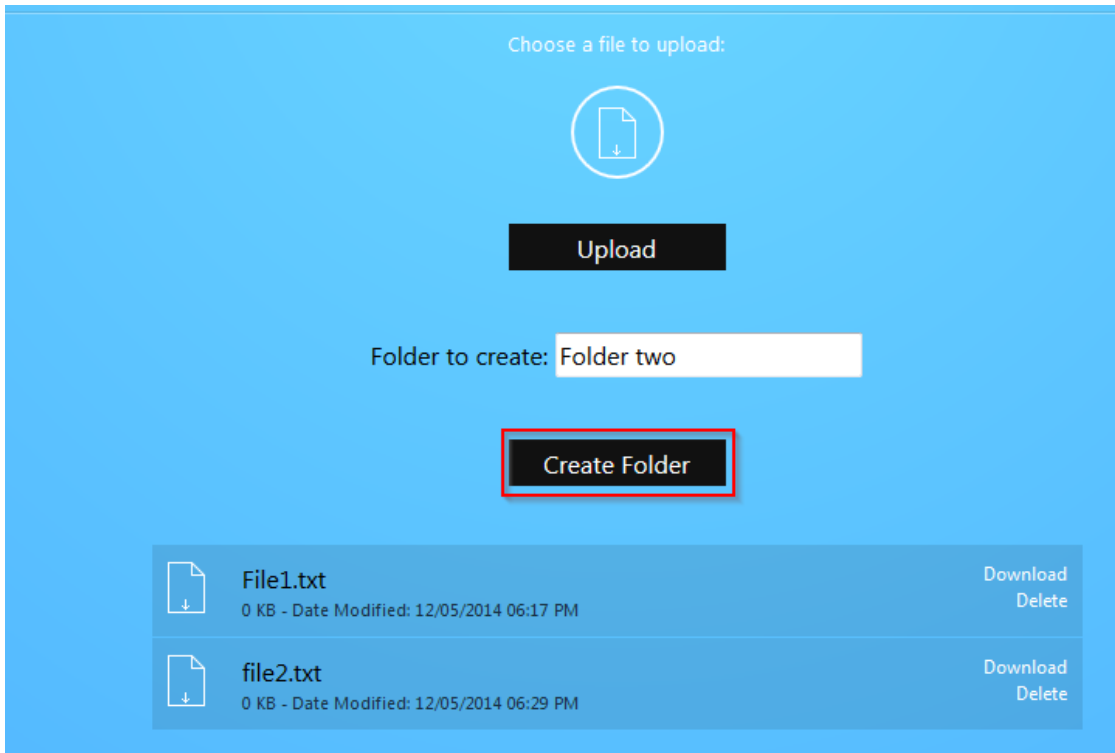
13. Click **Upload**.



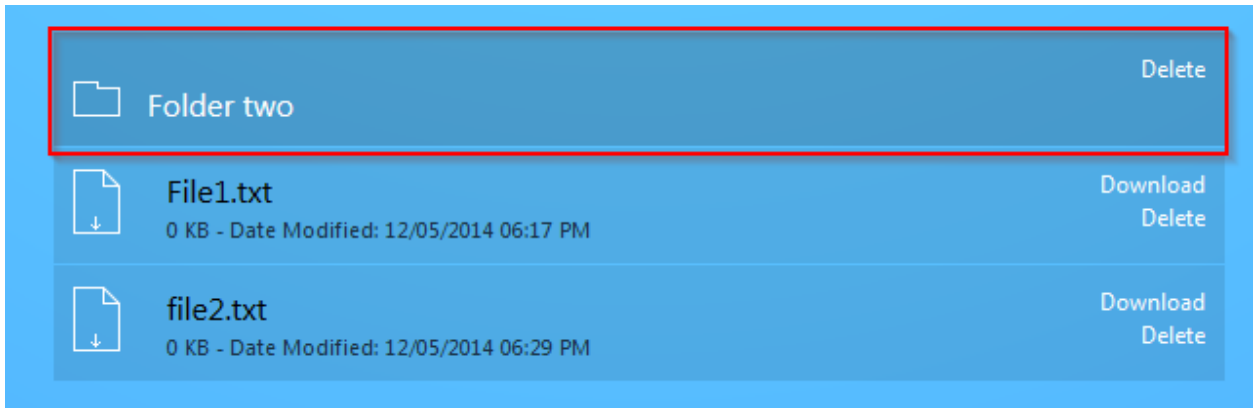
14. Your file will now be on USB drive.



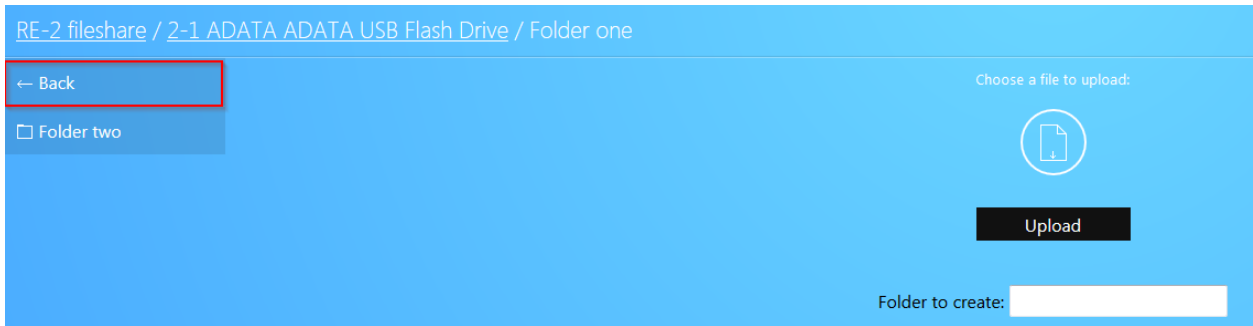
15. You can create folders as well. Simply enter the folder name and click **Create Folder**. As an example, we will create a folder titled **Folder two**.



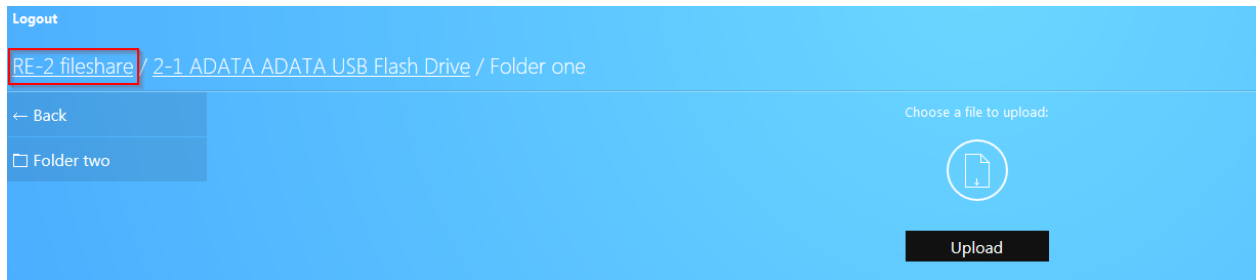
16. The folder will now be displayed.



17. To return to the previous directory click the **Back** button.



18. You can click **RE-2 fileshare** to return to the root of the USB drive.



19. Finally, you can click **Logout** to log out of the file share.

MAPPING NETWORK DRIVES

The following section will show you how to map the USB drive on the RE-2 on various operating systems.

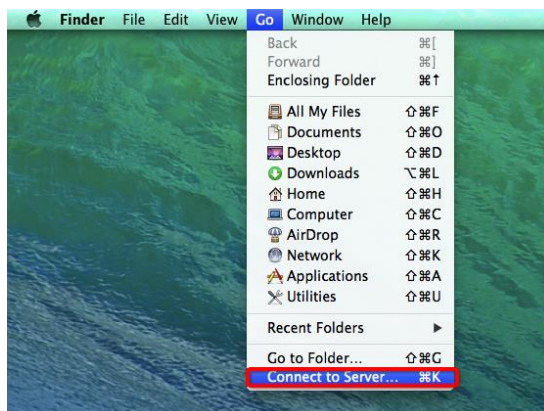
Mac OS X

Take the following steps to map the USB drive on Mac OS X.

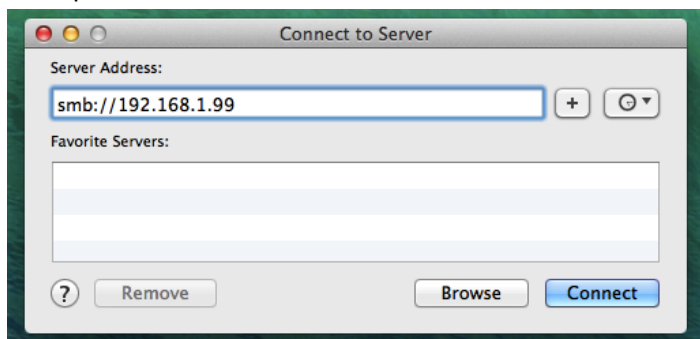
1. Click **Go** at the upper left.




2. Click **Connect to Server**.



3. In the **server address field**, enter **SMB://IP address of your RE-2**. The following image shows an example of this. Click **Connect**.



4. You will be prompted to login as a **guest** or **registered user**. Select **registered user**. In the username and password field enter the credentials you have configured on the RE-2.



Enter your name and password for the server "192.168.1.99".

Connect as: Guest
 Registered User

Name:

Password:

Remember this password in my keychain

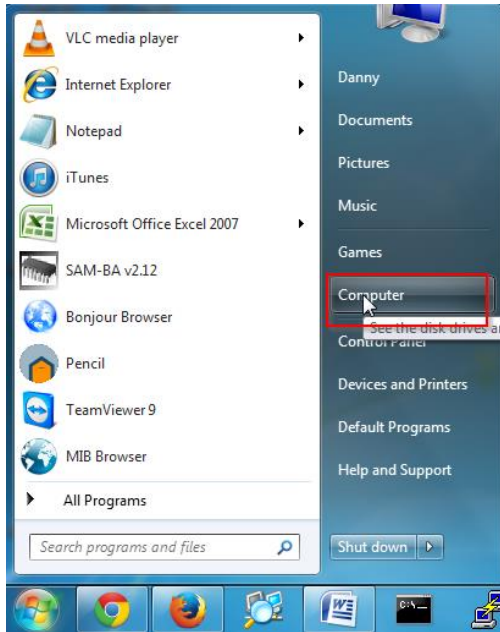
5. The USB drive will now be mapped on your computer and you will be able to access files on that drive.

Name	Date Modified	Size	Kind
▶ Shared Files	Today, 2:14 PM	--	Folder

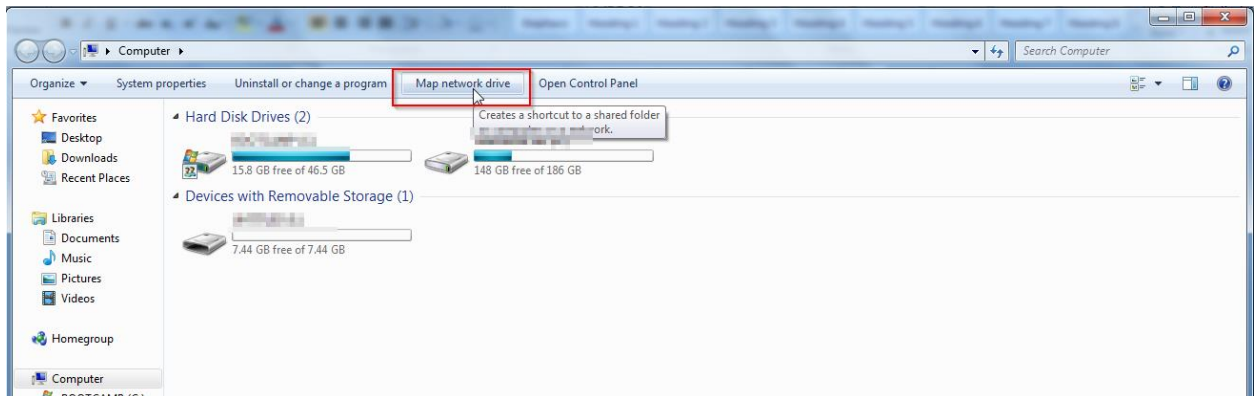
Windows 7

Take the following steps to map the USB drive on the RE-2 in windows 7.

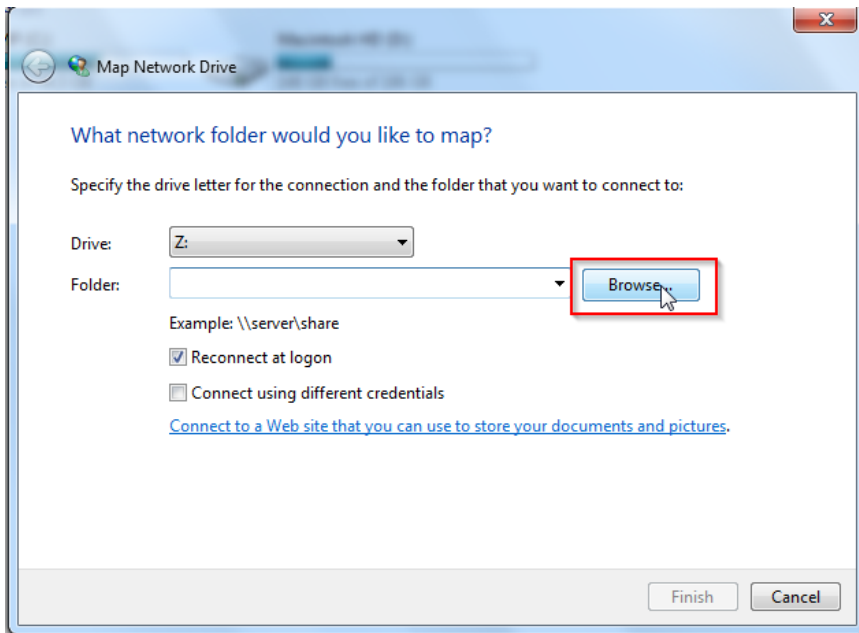
1. Click the start button at the bottom left hand side. Click **Computer**.



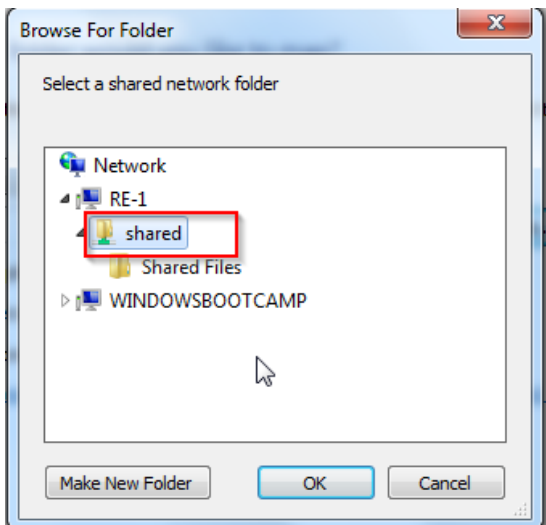
2. Click **Map Network Drive**.



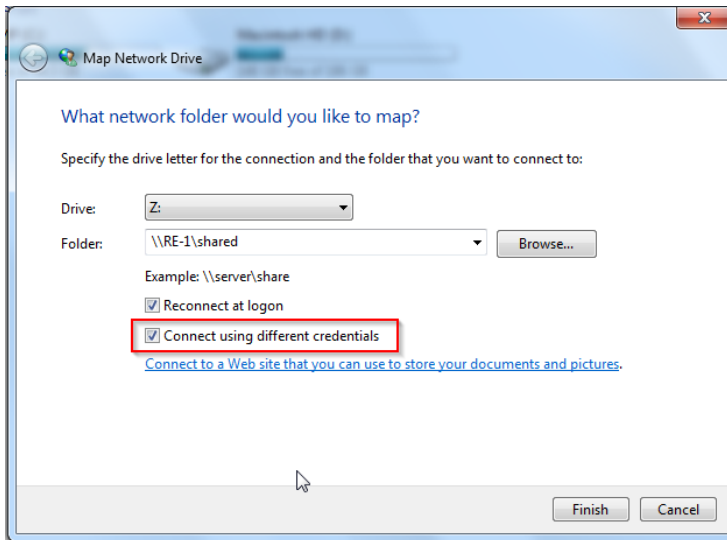
3. Click **Browse**.



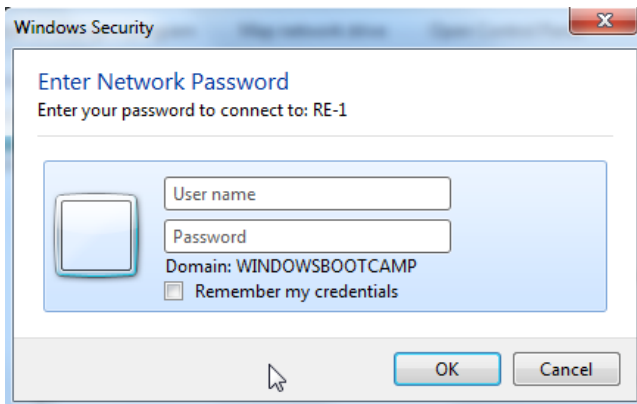
4. Click on **RE-2** to expand it. Click on the folder you want to map underneath it to select it. Click **OK**.



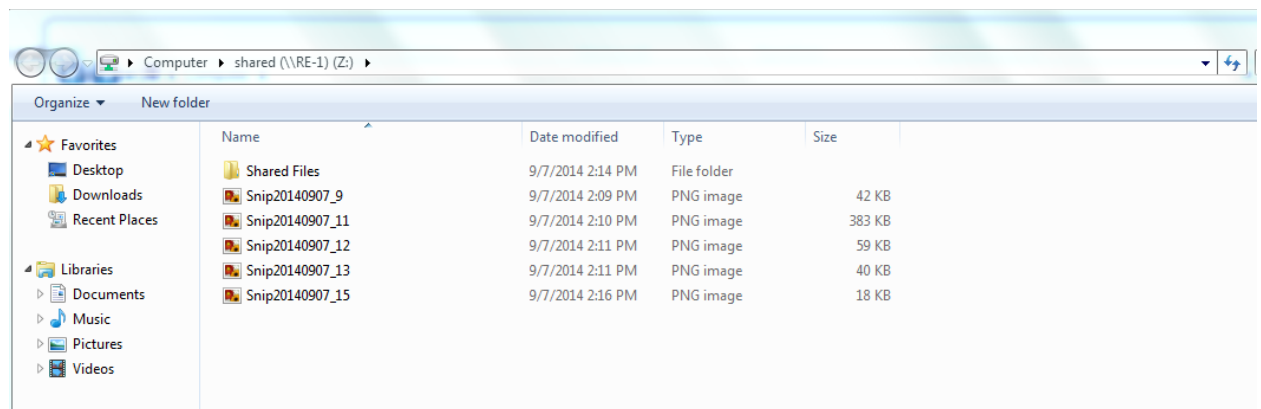
5. Check the box titled **Connect using different credentials**. Click **Finish**.



6. Enter the username and password to access the folder. Click **OK**.



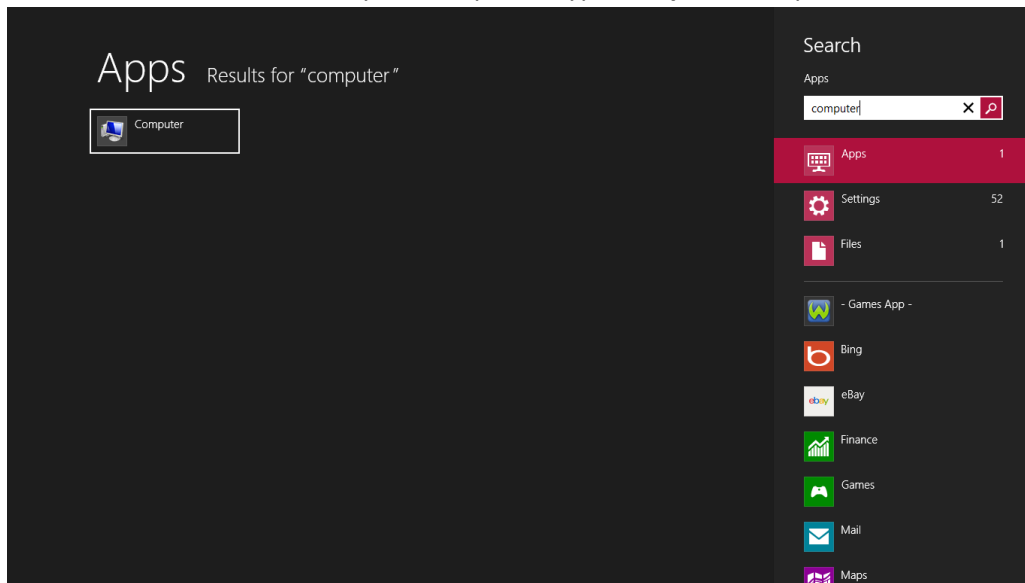
7. You will now have access to the files on the USB drive.



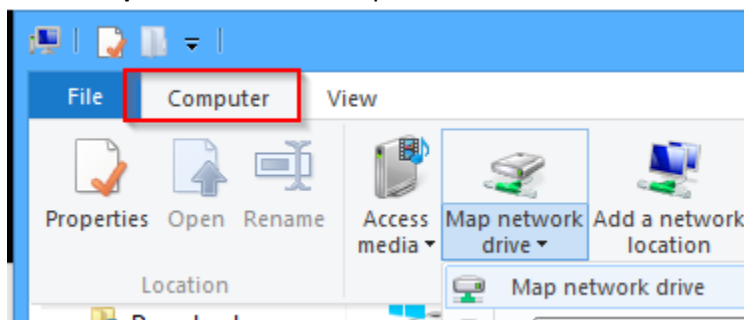
Windows 8

Take the following steps to map the USB drive on the RE-2 for windows 8.

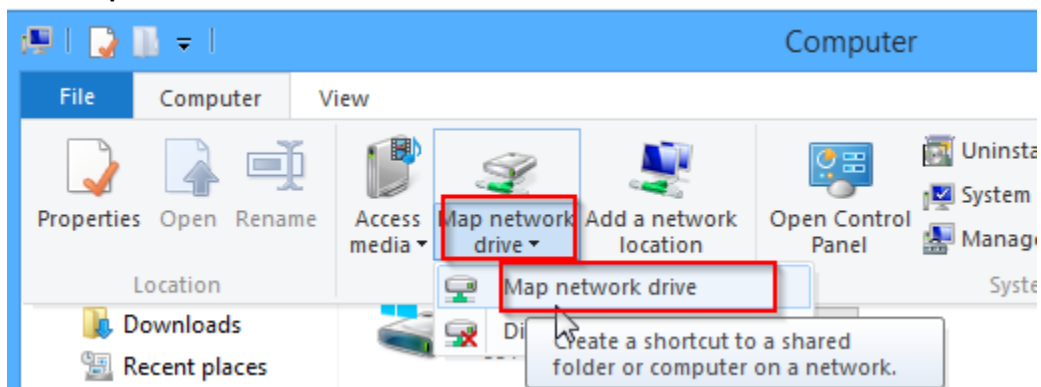
1. Press the windows button on your computer. Type **computer** and press enter.



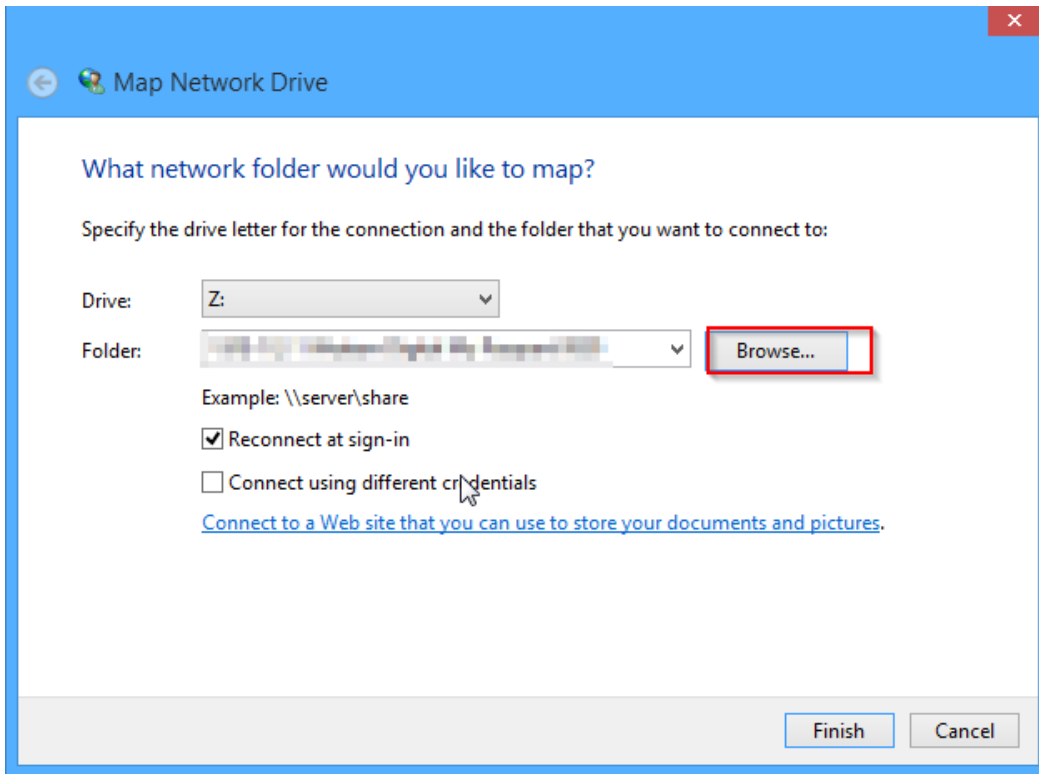
2. Click **Computer** towards the top.



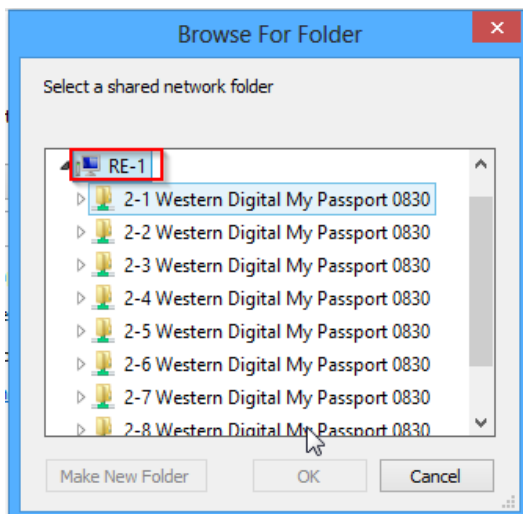
3. Click **Map network drive**.



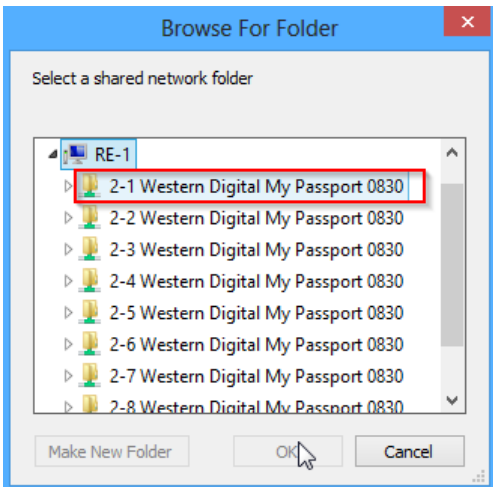
4. Click **Browse**.



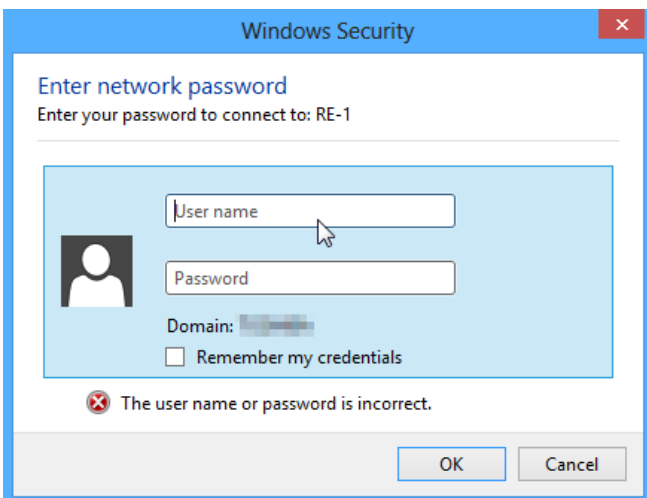
5. You will see the RE-2. You will also see all of the folders on the USB drive connected to the RE-2.



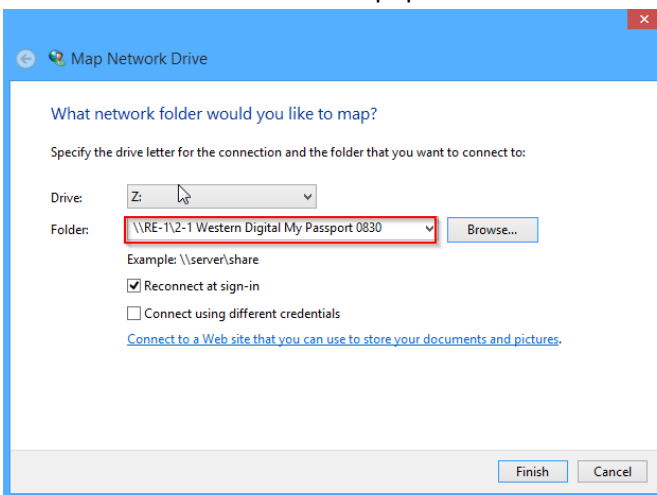
6. Select the folder you want to map and click **OK**.



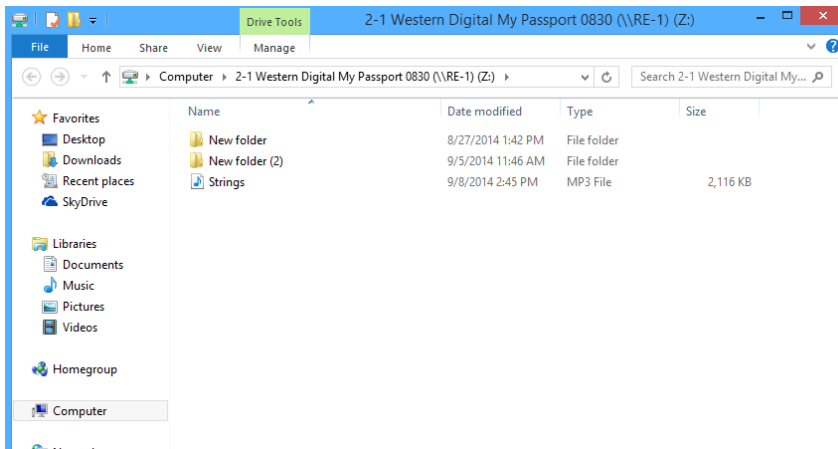
7. Enter the credentials to access the folder.



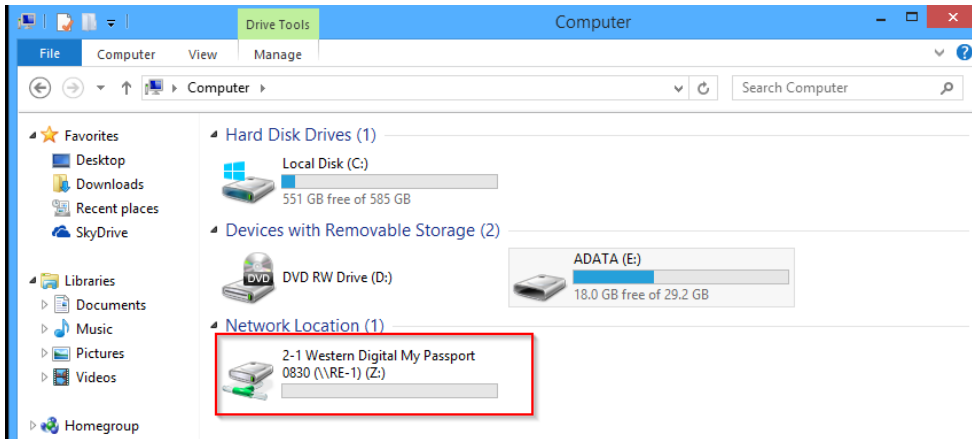
8. Your folder field will have auto populated with the name of the folder. Click **Finish**.



9. You will now have access to the files on the USB drive.



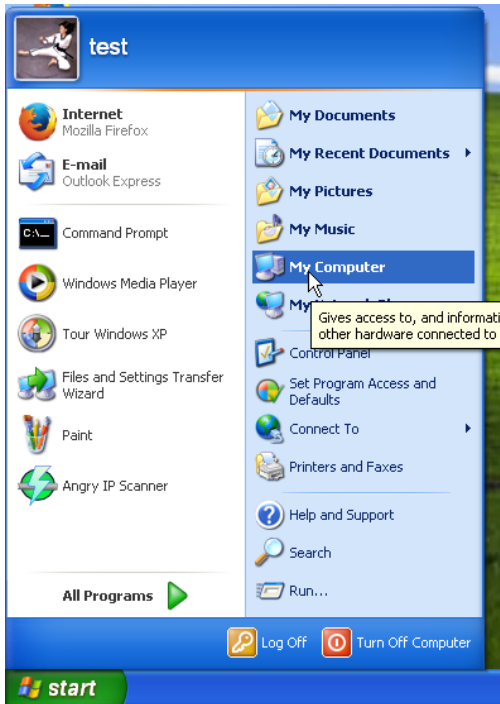
10. Your folder will now show up as a mapped drive.



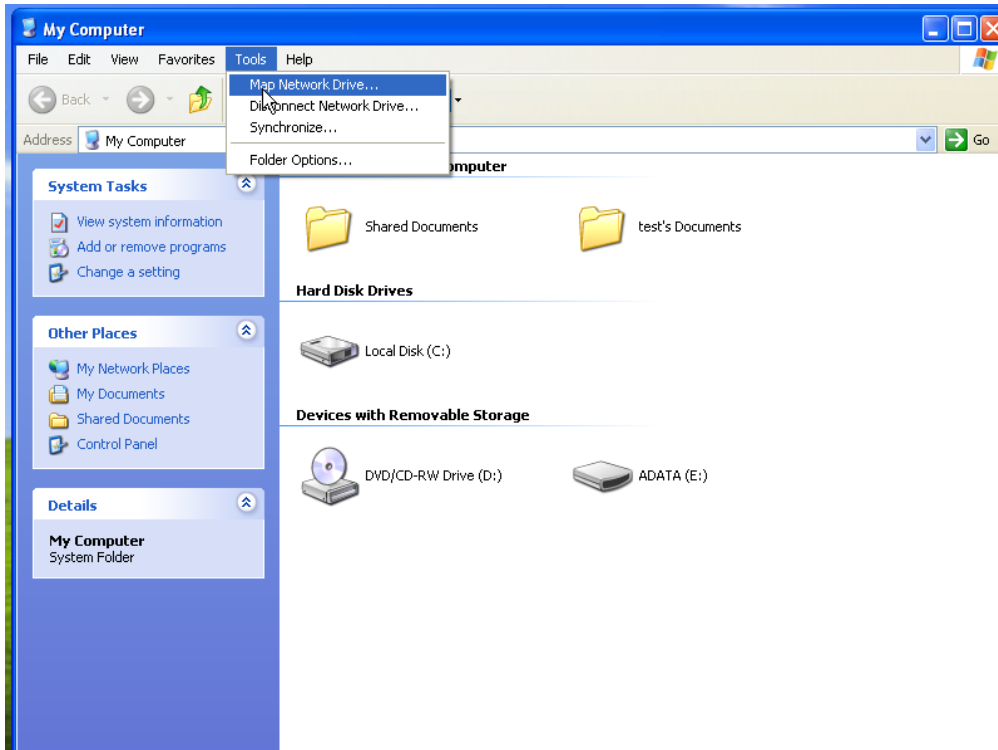
Windows XP

Take the following steps to map a USB drive in Windows XP.

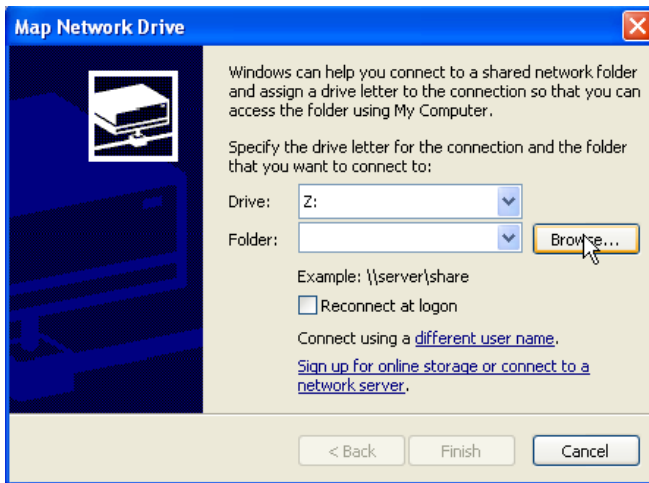
1. Click **My Computer**.



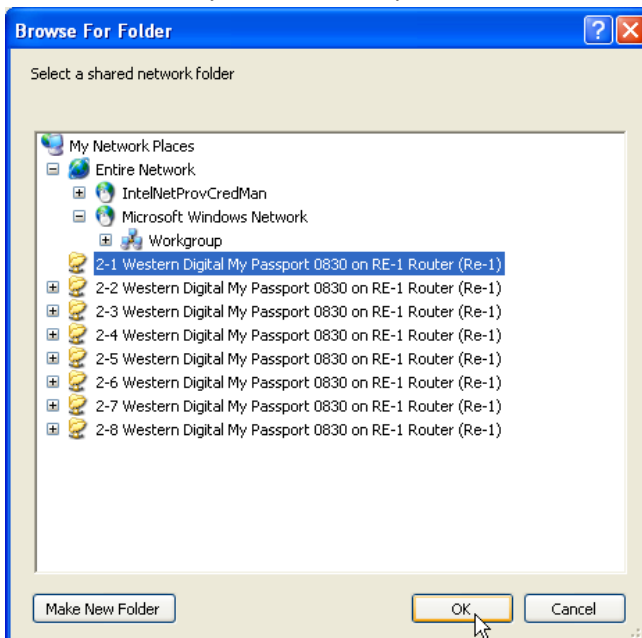
2. Click **Tools->Map Network Drive**.



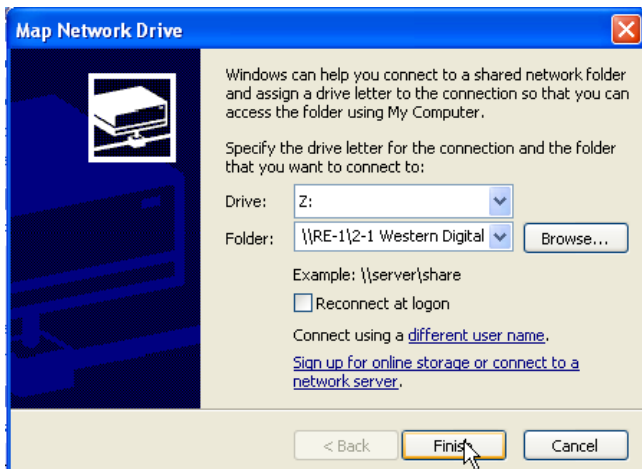
3. Click **Browse**.



4. Select the folder you want to map. Click **OK**.



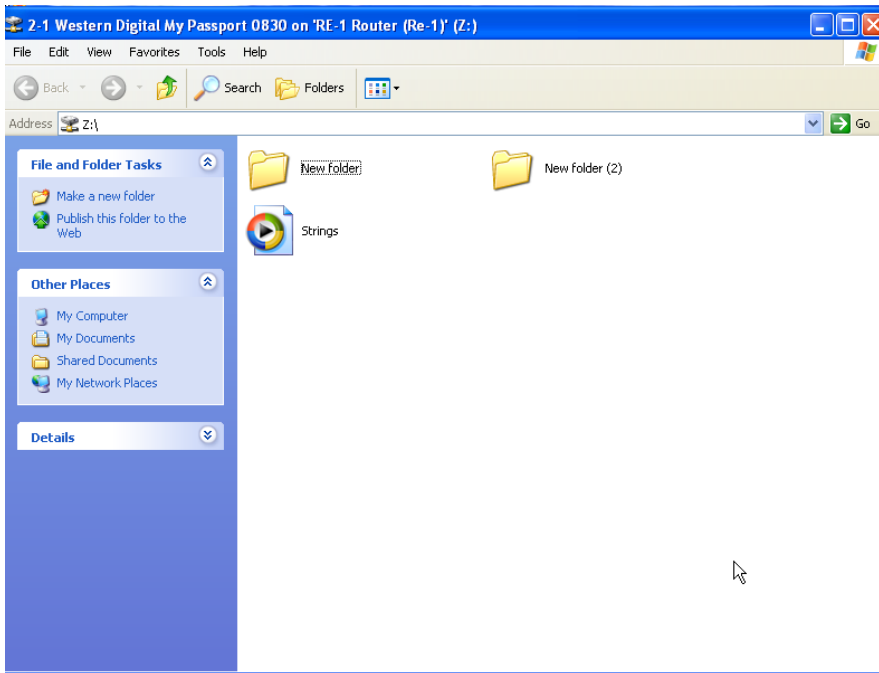
5. Click **Finish**.



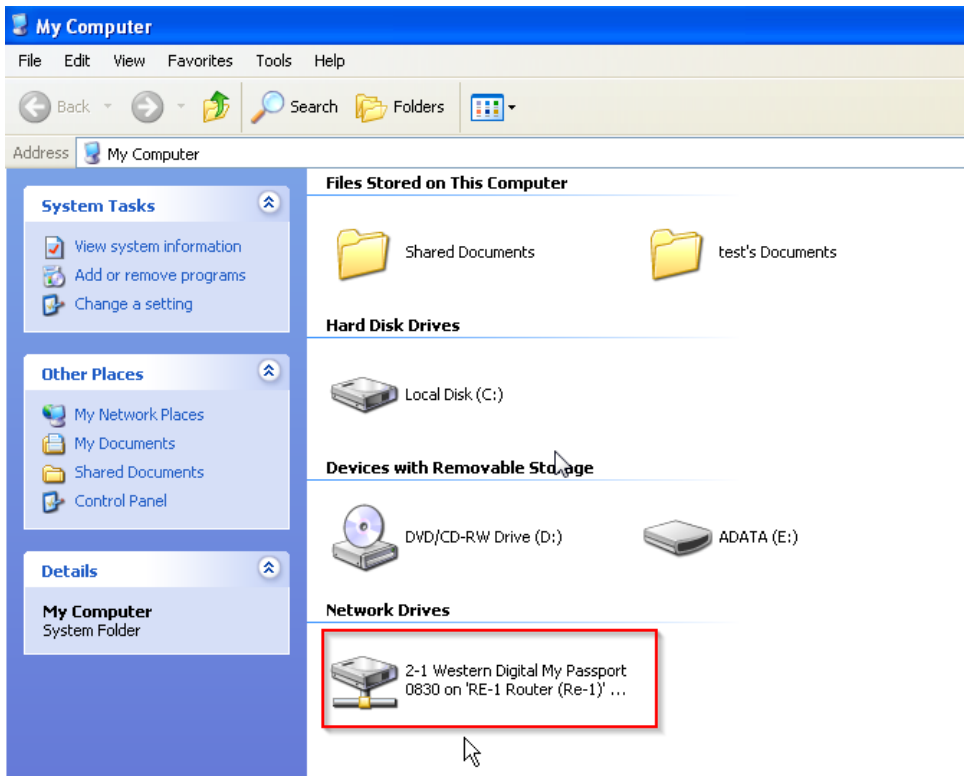
6. Enter the credentials to access the folder.



7. You will now have access to the folder.



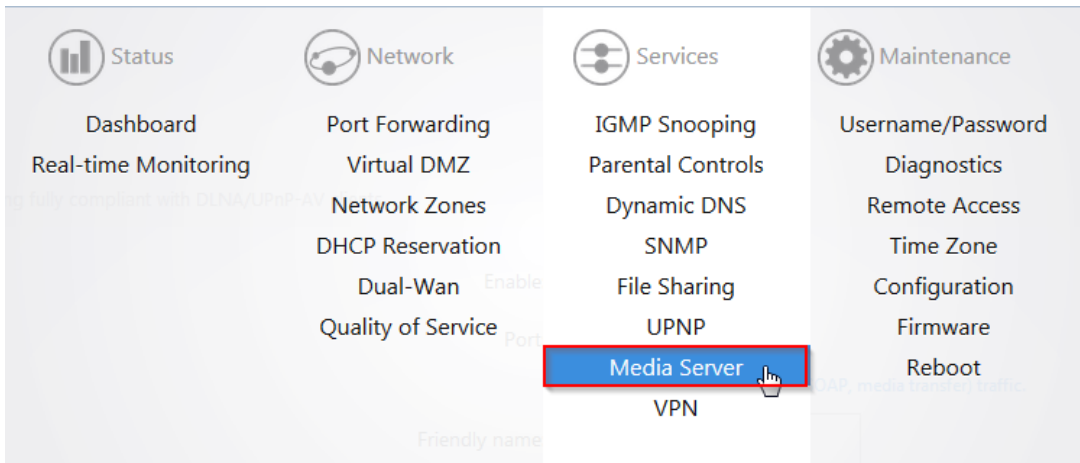
8. Your folder will now be mapped on your computer.



MEDIA SERVER

The Media Server feature allows the router to act as a media server on the network. Once you enable this you can connect a USB drive to the router and use a media client on a computer to access the content of that USB drive. To enable the media server take the following steps.

1. Click **Media Server**.



2. Check the enable box.

Media Server
Media Server software with the aim of being fully compliant with DLNA/UPnP-AV clients.

Enable:

Port:
Port for HTTP (descriptions, SOAP, media transfer) traffic.

Friendly name:
Set this if you want to customize the name that shows up on your clients.

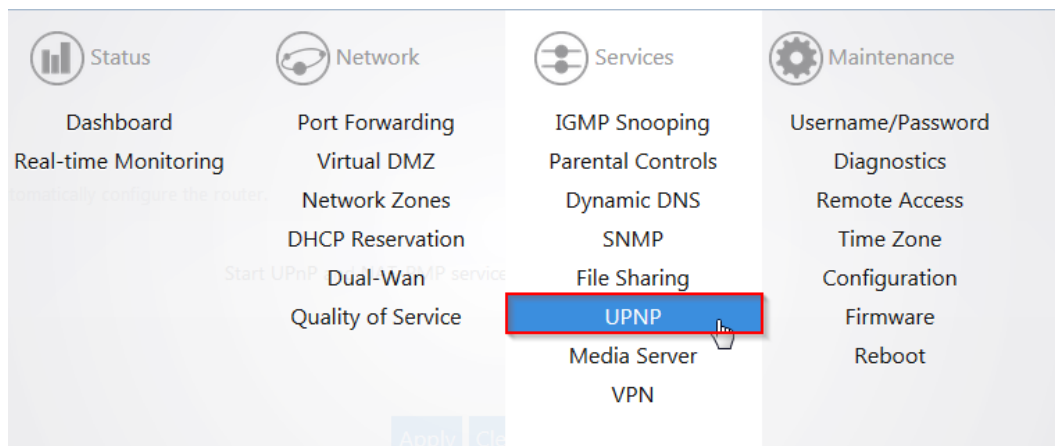
Root container:

3. Click **Apply** to finalize the settings. The router will now act as a media server for your network.

UPNP

UPnP allows for automatic configuration of the router for your devices. This can be essential for certain audio/video systems and devices such as game consoles. To enable UPnP take the following steps.

1. Click **UPnP**.



2. Check the enable box and then click **Apply** to finalize the settings.

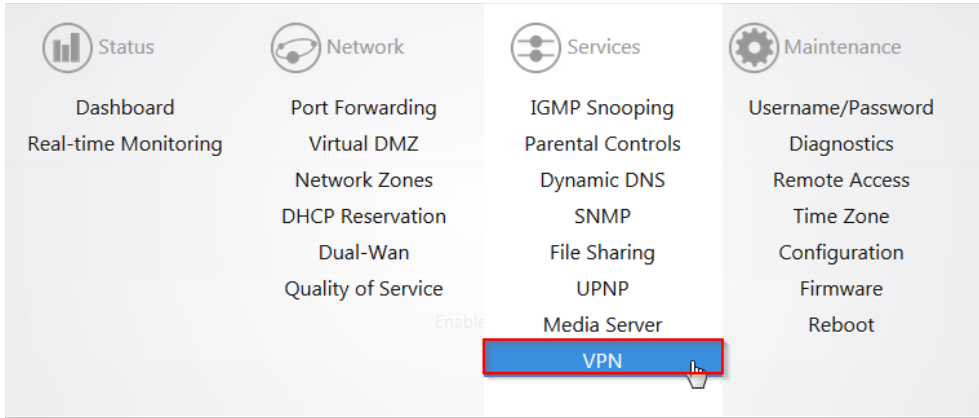
Universal Plug & Play
UPnP allows clients in the local network to automatically configure the router.

Start UPnP and NAT-PMP service

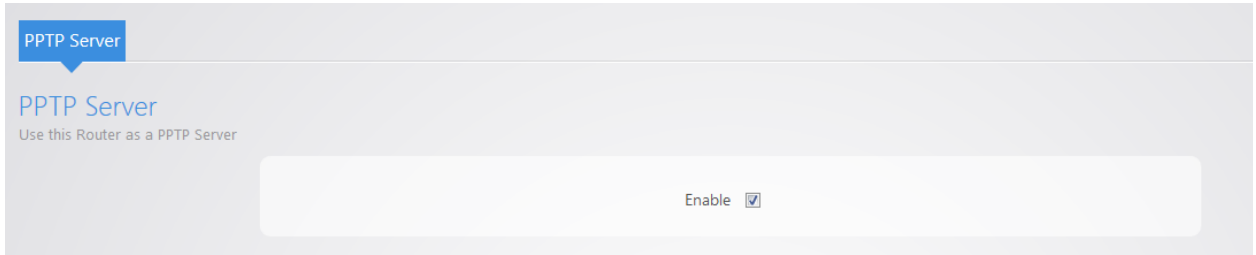
VPN

The RE-2 supports Point-to-Point Tunnel Protocol VPN. You can connect to the router remotely and have access to all network resources. To configure the **VPN** take the following steps.

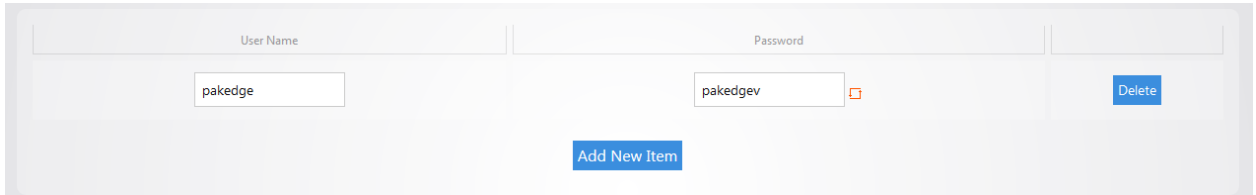
1. Click **VPN**.



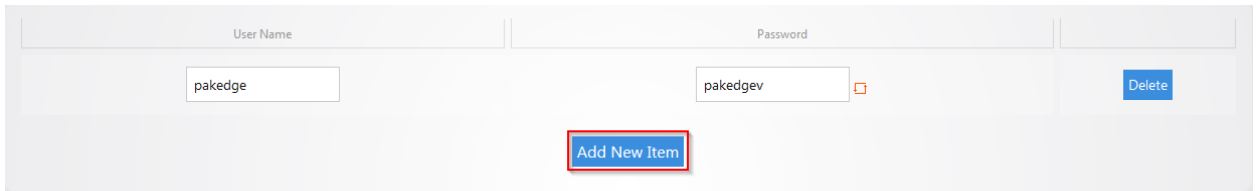
2. Check the enable box.



3. There is a default **pakedge** user. The default password for this user is **pakedgev**. Click **Apply** to enable the VPN with this default user.



4. You can change the username along with the password if you wish.
5. You can also add a second user to the VPN by clicking **Add New Item**.



6. Then you can fill in a username and password. Click **Apply** to finalize the settings.

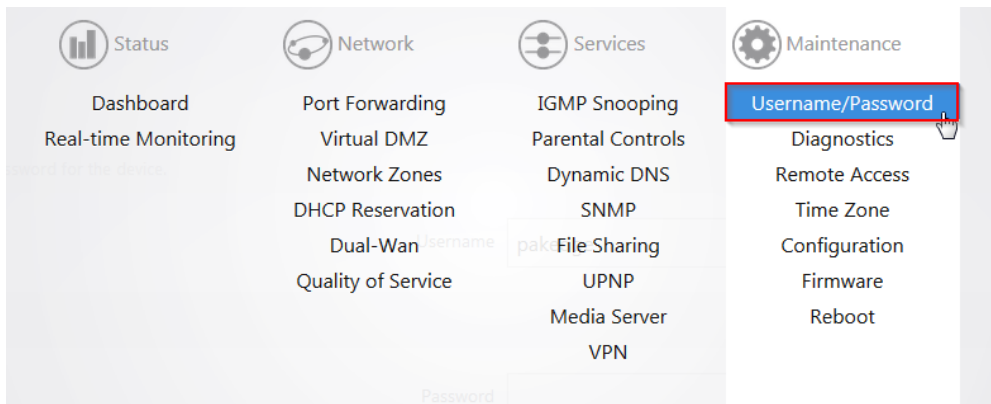
User Name	Password	
<input type="text" value="pakedge"/>	<input type="password" value="....."/>	<input type="button" value="Delete"/>
<input type="text" value="vpnuser"/>	<input type="password" value="....."/>	<input type="button" value="Delete"/>
<input type="button" value="Add New Item"/>		

- When you connect to the VPN you will have full access to all of your devices on the network.
 Note: When you connect to the VPN you will receive an IP address from the same IP scheme as your LAN zone. For example, if your LAN zone is setup for 192.168.1.X you will receive an IP address from the IP range of 192.168.1.20 thru 192.168.1.30. If your network LAN zone is setup as 192.168.10.X you will receive an IP address from the IP range of 192.168.10.20 thru 192.168.10.30.

USERNAME/PASSWORD

It is strongly recommended that you change the default password for the RE-2. To change the password, please take the following steps.

- Once logged into the RE-2, navigate to **Maintenance->Username/Password**.



- Enter the password you would like to use for the router. There are no specified requirements for the password. You will need to enter the password a second time to confirm it.

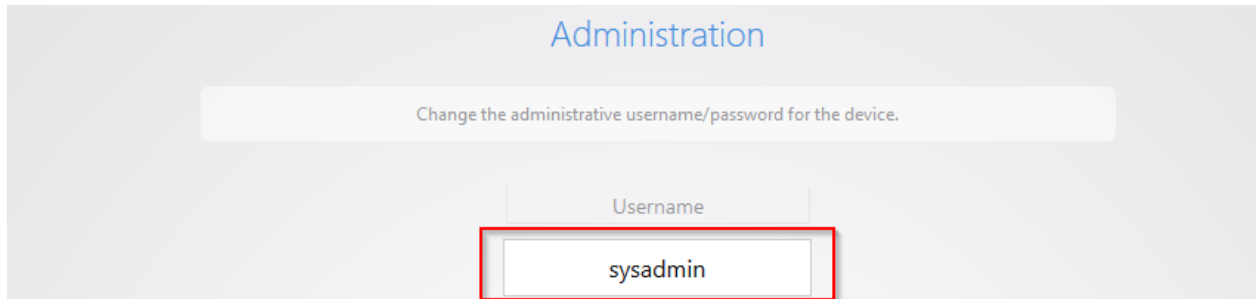
Administration
 Change the administrative username/password for the device.

Username:

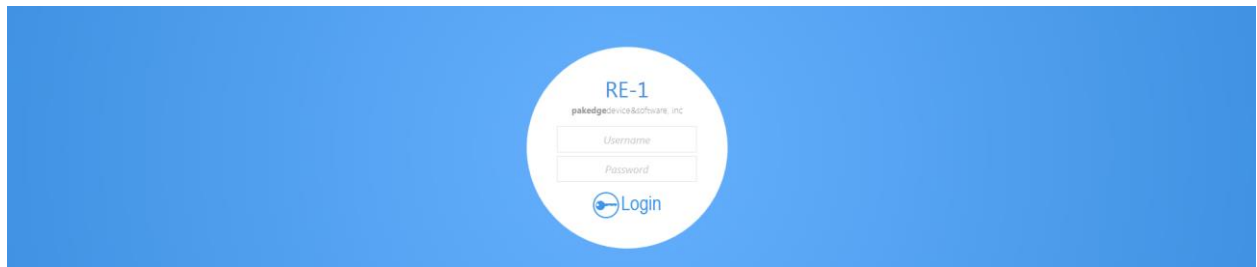
Password:

Confirmation:

3. You can also change the default username. Simply type in the username you would like to use. Click **Apply** to finalize the settings.



4. You will then be prompted to log into the unit with the new password.



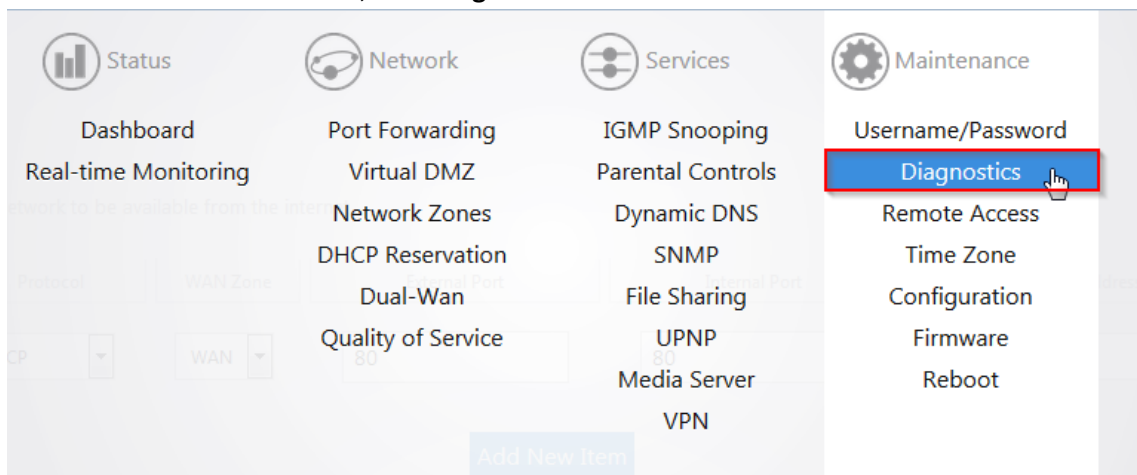
DIAGNOSTICS

The Diagnostics page allows you to easily troubleshoot your network.

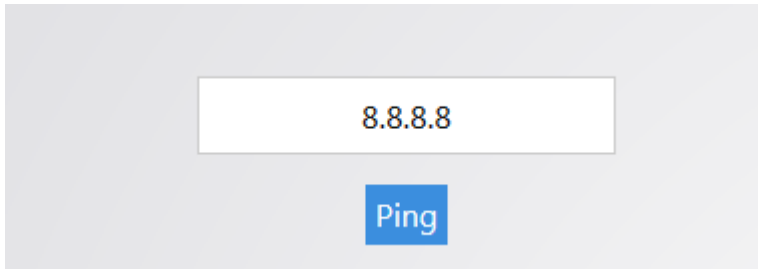
Ping

Ping allows you to test communication between two devices on the network. To ping from the RE-2 take the following steps.

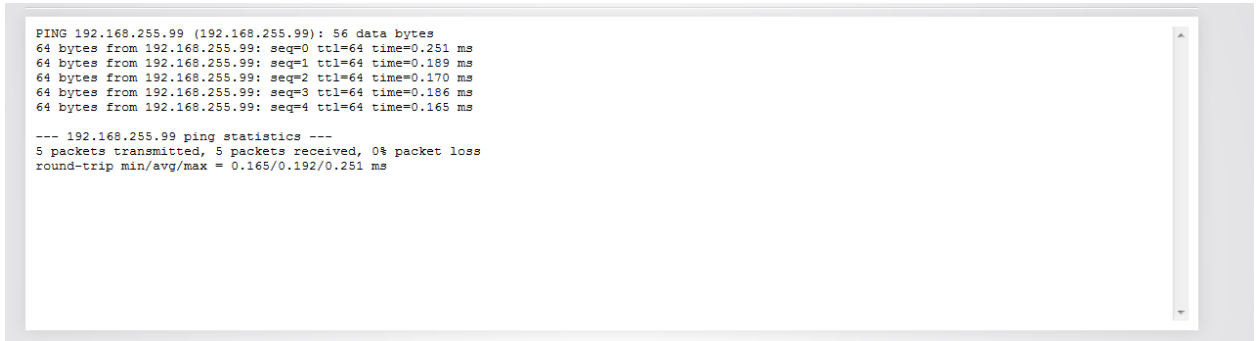
1. From the **Maintenance** menu, click **Diagnostics**.



2. Click **Ping**. If you wish to ping a different IP address or hostname you may type it in instead.



3. After a few moments your ping results will be displayed.



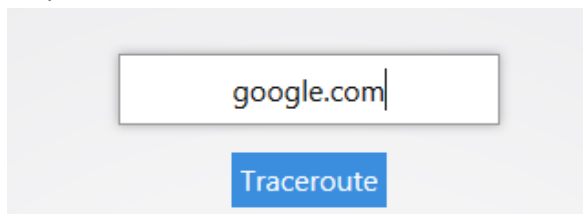
Traceroute

A traceroute allows you to see how many routers, or hops, there are between the router and a certain destination. To perform a traceroute take the following steps.

1. From the **Maintenance** menu, click **Diagnostics**.



2. Click **traceroute**. If you wish to perform a traceroute to a different website or IP address you may enter it instead.



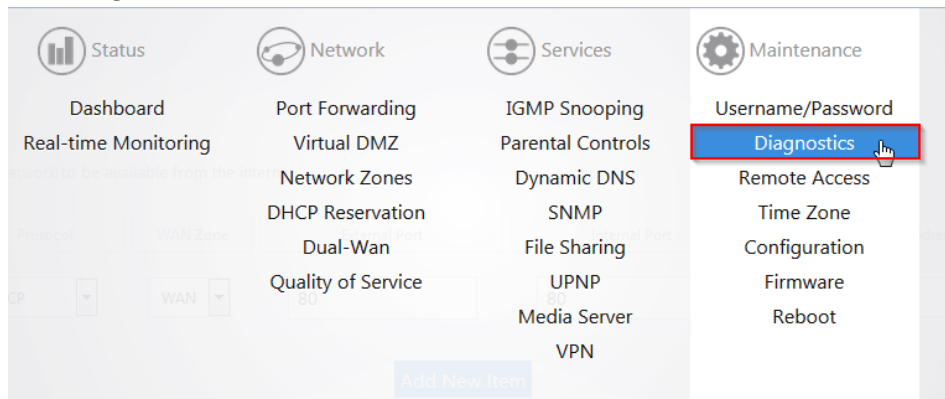
3. After a few moments your traceroute results will be displayed.

```
traceroute to google.com (74.125.224.129), 30 hops max, 38 byte packets
 1 192.168.1.99 0.283 ms
 2 173.60.186.1 2.204 ms
 3 100.41.196.230 8.212 ms
 4 130.81.163.248 11.813 ms
 5 *
 6 140.222.227.21 73.477 ms
 7 152.63.114.225 10.753 ms
 8 63.125.112.154 93.280 ms
 9 64.233.174.238 8.618 ms
10 209.85.250.251 6.069 ms
11 74.125.224.129 7.733 ms
```

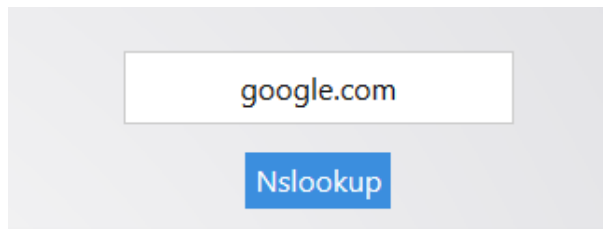
NSlookup

NSlookup allows you to find name server information for domains. To perform an NSlookup take the following steps.

1. Click **Diagnostics**.



2. Click **NSlookup**. If you wish to do an NSlookup for a different website you can type it in instead.



3. After a few moments your NSlookup results will be displayed.

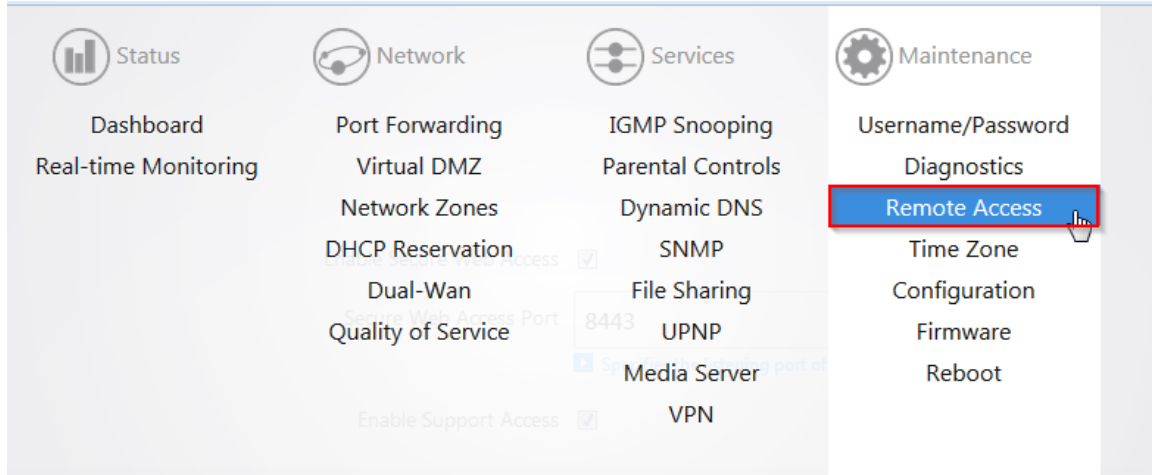
```
Server: 127.0.0.1
Address 1: 127.0.0.1 localhost

Name: google.com
Address 1: 2607:f8b0:4007:805::1004 lax02s20-in-x04.1e100.net
Address 2: 74.125.224.130 lax02s20-in-f2.1e100.net
Address 3: 74.125.224.136 lax02s20-in-f8.1e100.net
Address 4: 74.125.224.134 lax02s20-in-f6.1e100.net
Address 5: 74.125.224.137 lax02s20-in-f9.1e100.net
Address 6: 74.125.224.142 lax02s20-in-f14.1e100.net
Address 7: 74.125.224.131 lax02s20-in-f3.1e100.net
Address 8: 74.125.224.132 lax02s20-in-f4.1e100.net
Address 9: 74.125.224.128 lax02s20-in-f0.1e100.net
Address 10: 74.125.224.135 lax02s20-in-f7.1e100.net
Address 11: 74.125.224.133 lax02s20-in-f5.1e100.net
Address 12: 74.125.224.129 lax02s20-in-f1.1e100.net
```

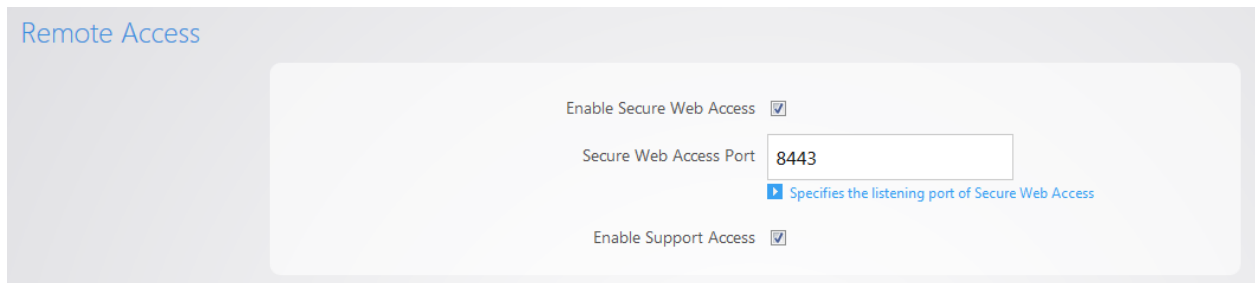
REMOTE ACCESS

The **Remote Access** page allows you to change the default port used to access the router remotely. To change the secure web port, take the following steps.

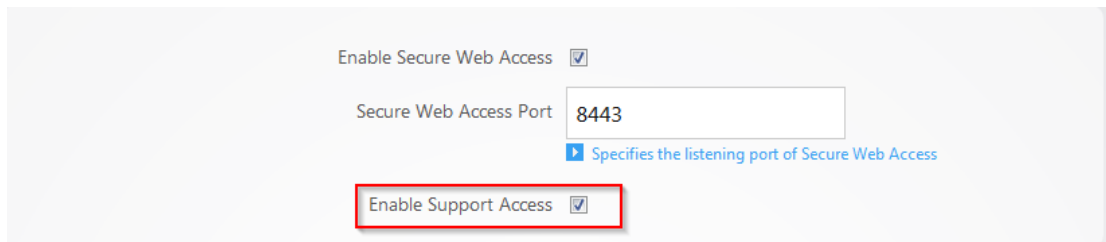
1. Click **Remote Access**.



2. You can type in a new port number into the **Secure Web Access Port** field if you wish to change it from its default. You can also disable remote access all together if you uncheck the **Enable Secure Web Access** option.



3. The **Support Access** section. By default this is enabled. This allows the support team at Pakedge to perform advanced diagnostics on your router. It is recommended that you keep this option enabled.

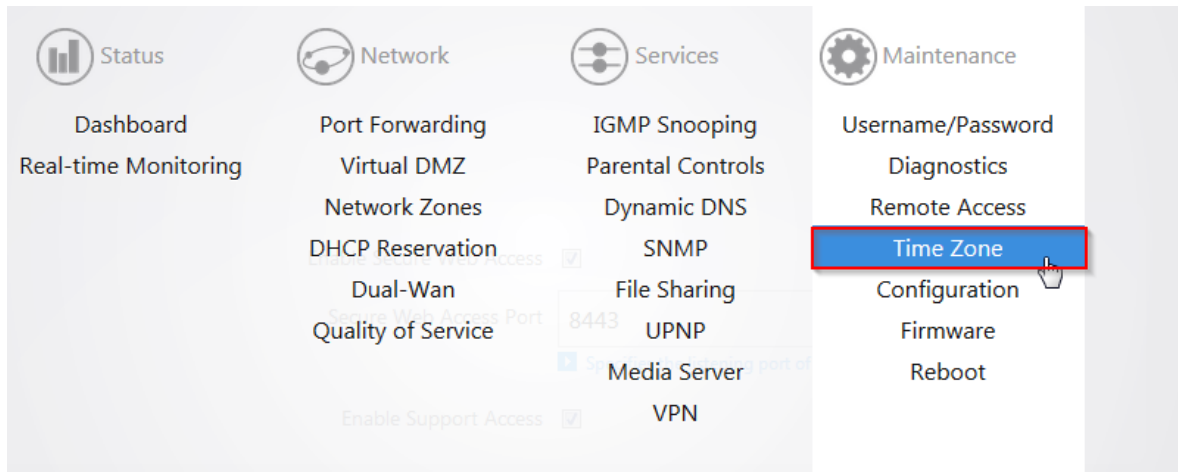


4. If you have made any changes on this page click **Apply** to finalize the settings.

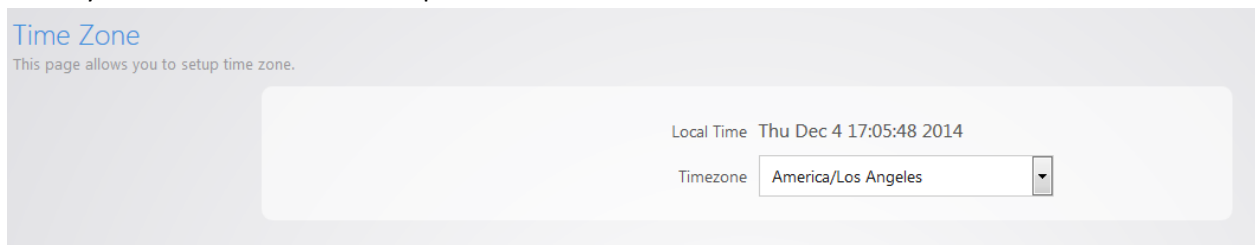
TIME ZONE

The **time zone** page allows you to set the appropriate time on the router.

1. Click **Time**.



2. Select your time zone from the drop down menu.



3. Click **Apply** to finalize your settings.

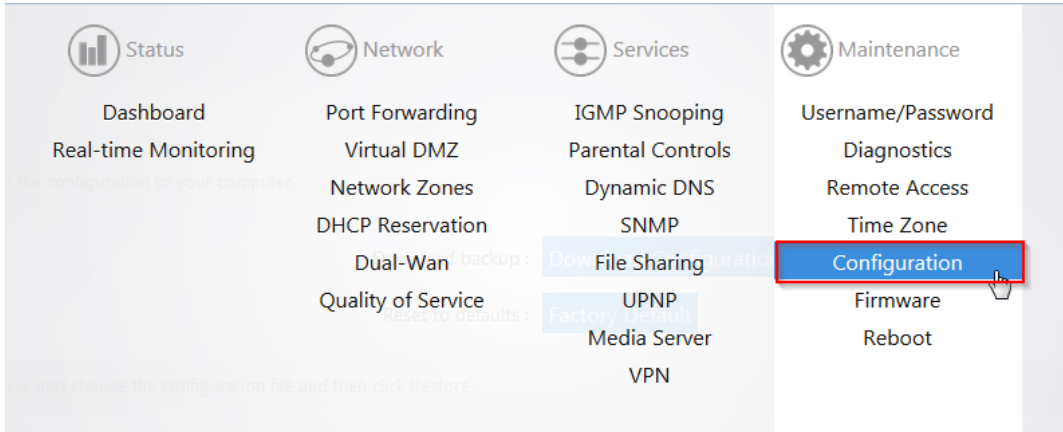
CONFIGURATION

The **Configuration** page will allow you to factory default the router, download the configuration file, or restore a configuration.

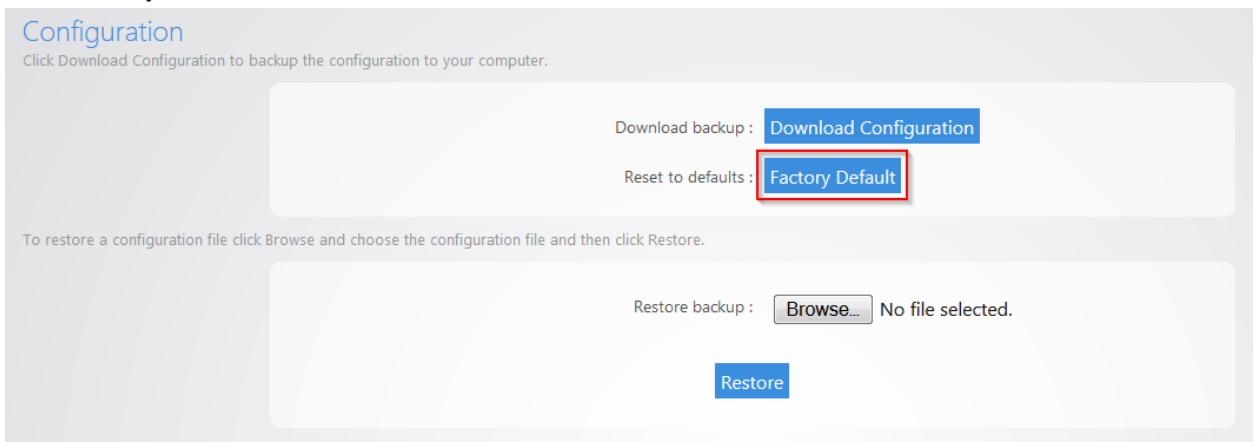
Factory Default

To **Factory Default** the router take the following steps.

1. Click **Configuration**.



2. Click **Factory Default**.

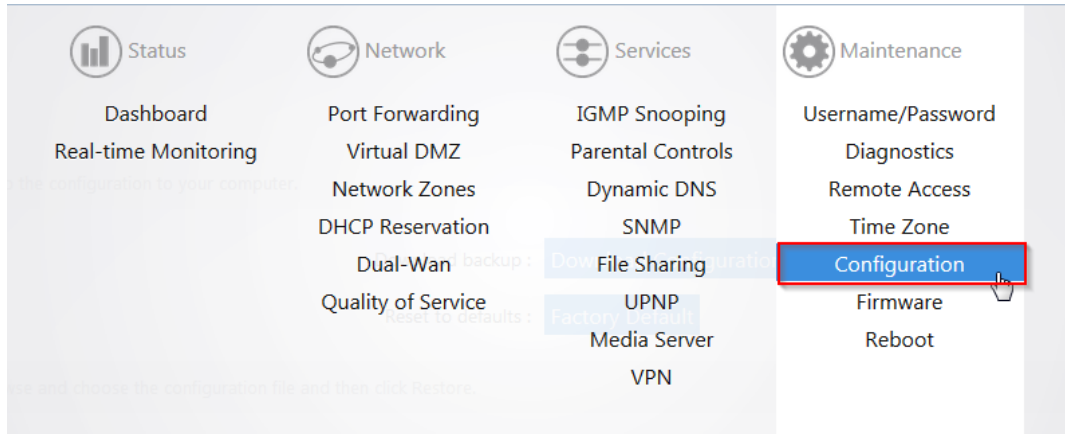


3. The router will now factory default itself. You can also factory default the router by pressing the pin-hole reset button on the back. Simply hold down this button for 10 seconds while the router is powered on, and then release it. The router will then factory default itself.

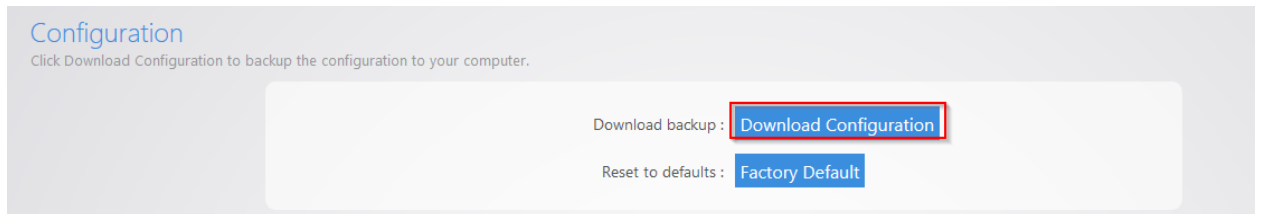
Download Backup

To make a backup of your configuration take the following steps:

1. Click **Configuration**.



2. Click **Download Configuration**.

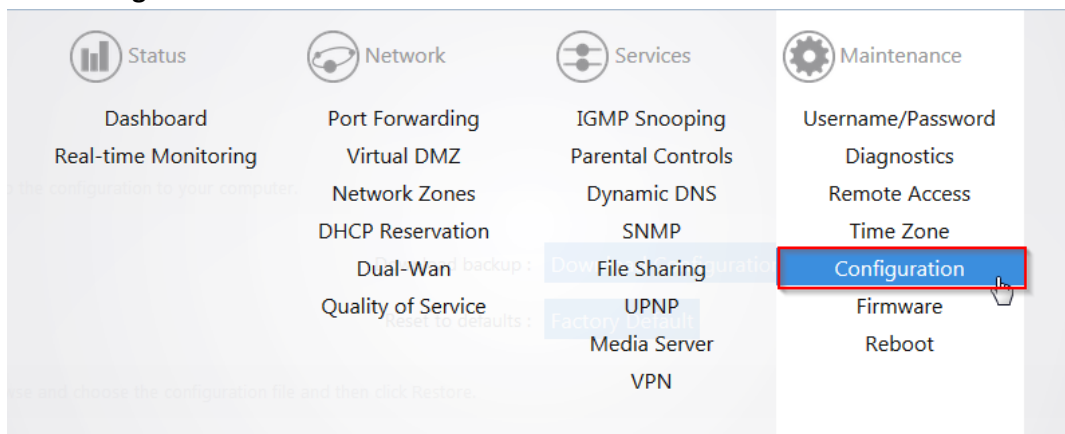


3. The configuration file will be downloaded to your computer.

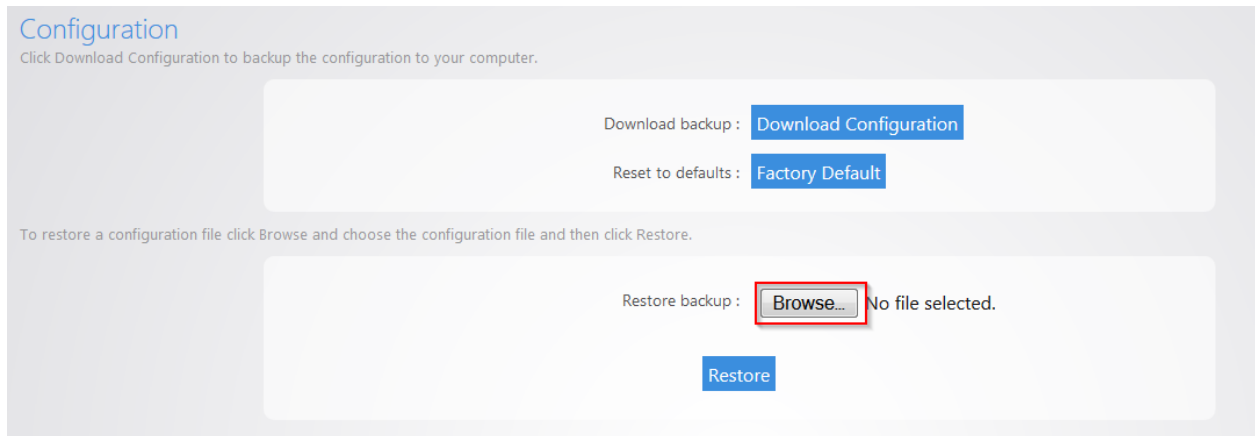
Restore Configuration

To restore a configuration from a previous backup take the following steps.

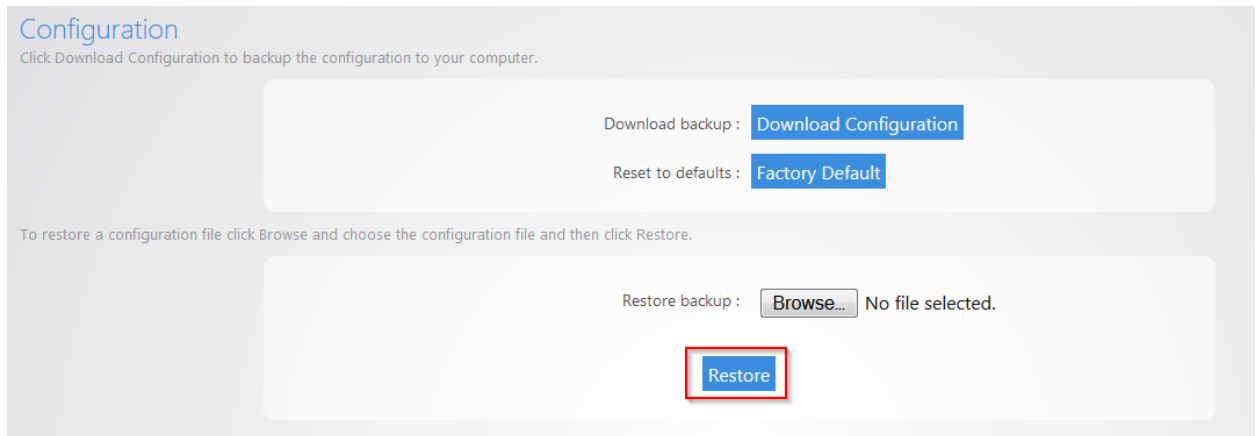
1. Click **Configuration**.



2. Click **Browse**.



3. Once you have selected your backup file, click **Restore**.



4. The router will then upload your configuration file and reboot itself.

FIRMWARE

The **Firmware** page will allow you to update the firmware on your RE-2. To update the firmware take the following steps.

1. The current firmware version of the router is displayed towards the bottom of the page.

The screenshot shows the RE-2 dashboard with a blue header and a grey footer. The header contains a welcome message, navigation icons for VPN, Network Zones, and Port Forward, and status cards for Active Sessions (30), CPU Usage (0%), and Memory Usage (8%). A prominent orange banner at the bottom of the header area displays the message: "New firmware (1.12) is available to download" with a "Download Now" button. Below this, the "Network" section shows WAN and LAN configuration details.

WAN	
Type:	static
Address:	192.168.1.51
Netmask:	255.255.255.0
Gateway:	192.168.1.99
DNS 1:	8.8.8.8
Uptime:	2h 42m 5s

LAN	
Type:	static
Address:	192.168.100.99
Netmask:	255.255.255.0
Uptime:	2h 42m 5s

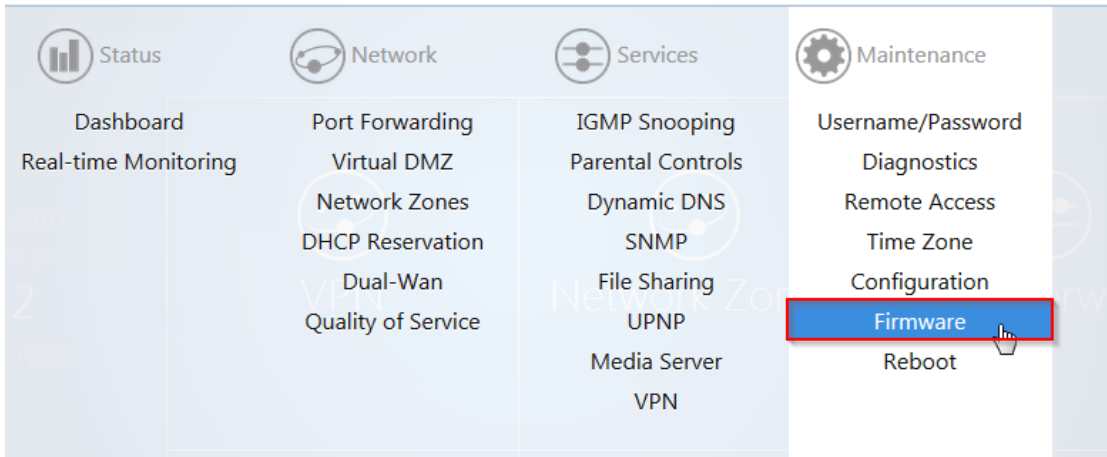
At the bottom of the dashboard, the text "pakedgedevice&software inc" is followed by the version number "1.11.15" which is highlighted with a red box.

2. If there is new firmware available for your router, you will see a message on the dashboard informing you. You can click **Download Now** to have the router update its firmware.

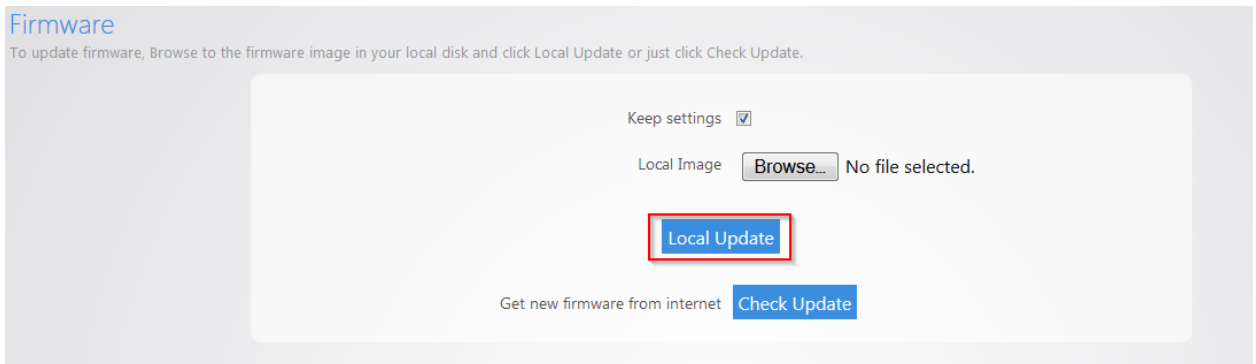
This screenshot is identical to the one above, but the "Download Now" button in the orange banner is highlighted with a red box to indicate the action to be taken.

3. You can also manually download the latest firmware from the Dealer Portal on the Pakedgewebsite. (<http://www.pakedge.com/for-dealers-firmware.html>)

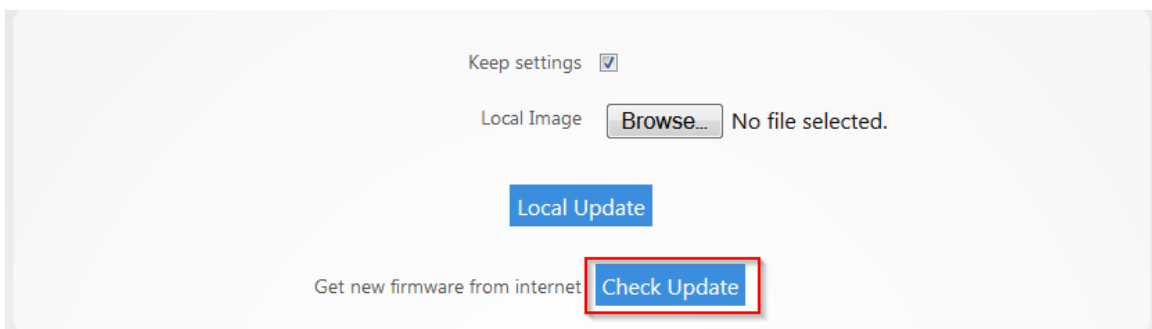
- Click **Firmware**.



- Browse to the firmware file and click **Local Update**. The **Keep settings** option indicates that the router will keep its configuration after the firmware update. If you uncheck this box before clicking **Update** the router will factory default itself and come back up with the new firmware and there-2's default configuration.



- The firmware update will take a few minutes to complete.
- The **Check Update** option will force the router to pull the latest firmware available and update itself.

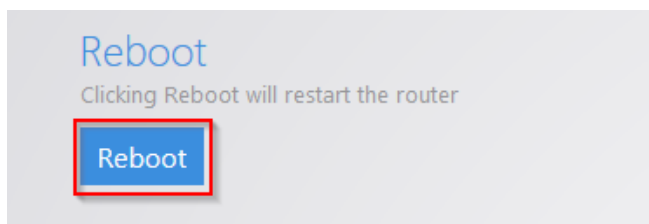


REBOOT

1. From the **Maintenance** menu, select **Reboot**.



2. Click **Reboot**.



3. The router will now reboot.

APPENDIX A: LIMITED WARRANTY

Congratulations on your purchase of a Pakedge Device & Software product! We believe Pakedge designs and manufacture the finest home networking products on the market. With proper installation, setup, and care, you should enjoy many years of unparalleled performance. Please read this consumer protection plan carefully and retain it with your other important documents.

This is a LIMITED WARRANTY as defined by the U.S. Consumer Product Warranty and Federal Trade Commission Improvement Act.

19.1 What Is Covered Under the Terms of This Warranty

SERVICE LABOR: Pakedge will pay for service labor by an approved Pakedge service center when needed as a result of a manufacturing defect for a period of one (1) year from the effective date of delivery to the end user.

PARTS: Pakedge will provide new or rebuilt replacement parts for the parts that fail due to defects in materials or workmanship for a period of one (1) year from the effective date of delivery to the end user. Such replacement parts are then subsequently warranted for the remaining portion (if any) of the original warranty period.

19.2 What Is Not Covered Under the Terms of This Warranty

This warranty only covers failure due to defects in materials and workmanship that occur during normal use and does not cover normal maintenance. This warranty does not cover any appearance item; any damage to living structure; failure resulting from accident (for example: flood, electrical shorts, insulation); misuse, abuse, neglect, mishandling, misapplication, faulty or improper installation or setup adjustments; improper maintenance, alteration, improper use of any input signal and/or power, damage due to lightning or power line surges, spikes and brownouts; damage that occurs during shipping or transit; or damage that is attributed to acts of God.

The foregoing limited warranty is Pakedge's sole warranty and is applicable only to products sold as new by Authorized Dealers. The remedies provided herein are in lieu of a) any and all other remedies and warranties, whether expressed, implied or statutory, including but not limited to: a) any implied warranty of merchantability, fitness for a particular purpose or non-infringement, and b) any and all obligations and liabilities of Pakedge for damages including but not limited to: incidental, consequential or special damages, or any financial loss, lost profits or expense, or loss of network connection arising out of or in connection with the purchase, use or performance of the product, even if Pakedge has been advised of the possibility of such damages.

CAUTION: DAMAGE RESULTING DIRECTLY OR INDIRECTLY FROM IMPROPER INSTALLATION OR SETUP IS SPECIFICALLY EXCLUDED FROM COVERAGE UNDER THIS WARRANTY. IT IS IMPERATIVE THAT INSTALLATION AND SETUP WORK BE PERFORMED ONLY BY AN AUTHORIZED PAKEDGE DEALER TO PROTECT YOUR RIGHTS UNDER THIS WARRANTY. THIS WILL ALSO ENSURE THAT YOU ENJOY THE FINE PERFORMANCE YOUR PAKEDGE PRODUCT IS CAPABLE OF PROVIDING.

19.3 Rights, Limits, and Exclusions

Pakedge limits its obligation under any implied warranties under state laws to a period not to exceed the warranty period. There are no express warranties. Pakedge also excludes any obligation on its part for incidental or consequential damages related to the failure of this product to function properly. Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages. In this case, the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

19.4 Effective Warranty Date

This warranty begins on the effective date of delivery to the end user. For your convenience, keep the original bill of sale as evidence of the purchase date from your authorized dealer.

19.5 Important: Warranty Registration

Please register your product at www.pakedge.com. It is imperative that Pakedge knows how to reach you promptly if we should discover a safety problem or product update for which you must be notified. In addition, you may be eligible for discounts on future upgrades as new networking standards come about.

19.6 To Obtain Service, Contact Your Pakedge Dealer.

Repairs made under the terms of the Limited Warranty covering your Pakedge product will be performed by an Authorized Pakedge Service Center. These arrangements must be made through the selling Pakedge Dealer. If this is not possible, contact Pakedge directly for further instructions. Prior to returning a defective product directly to Pakedge, you must obtain a Return Material Authorization number and shipping instructions. Return shipping costs will be the responsibility of the owner.

For additional information about this warranty, visit our website:

Pakedge Device & Software, Inc.

3847 Breakwater Avenue

Hayward, CA 94545

USA

Email: support@pakedge.com

Phone: (650) 385-8703

www.pakedge.com

APPENDIX B – SPECIFICATIONS

Item	Description
Summary	
Fixed port	5
LED Indicators	PWR, 1000M and Link/Act LED.
Input voltage	100V~240V AC, 0.9A, 50/60Hz
Power consumption	15.4 watts
Operating temperature	0°C~40°C.
Storage temperature	-10°C~70°C.
Relative humidity	20%~85% (non-condensing).
Spanning Tree	IEEE 802.1s Spanning Tree Protocol (STP).
QoS	Quality of Service.
Management	
SSH	Support SSH configuration mode.
WEB	Support WEB management system.
SNMP	Support System configuration with SNMP v1/v2.
System Log	Support.
Configuration File Download/Upload	Support Download/Upload configuration File via WEB.
Upgrade Firmware	Support Upgrade Firmware via WEB.
Debug	
PING	Support.
TRACEROUTE	Support.
NSLOOKUP	Support.
Mechanical	
L x W x H	10.5" x 6.5" x 2"
Weight	4lbs

APPENDIX C – TECHNICAL SUPPORT

Please visit our website for up-to-date support information:

Website: www.pakedge.com

Email: support@pakedge.com

CONTACT INFORMATION:

Pakedge Device & Software Inc.

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Hayward, CA 94545

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Visit us at:

www.pakedge.com

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