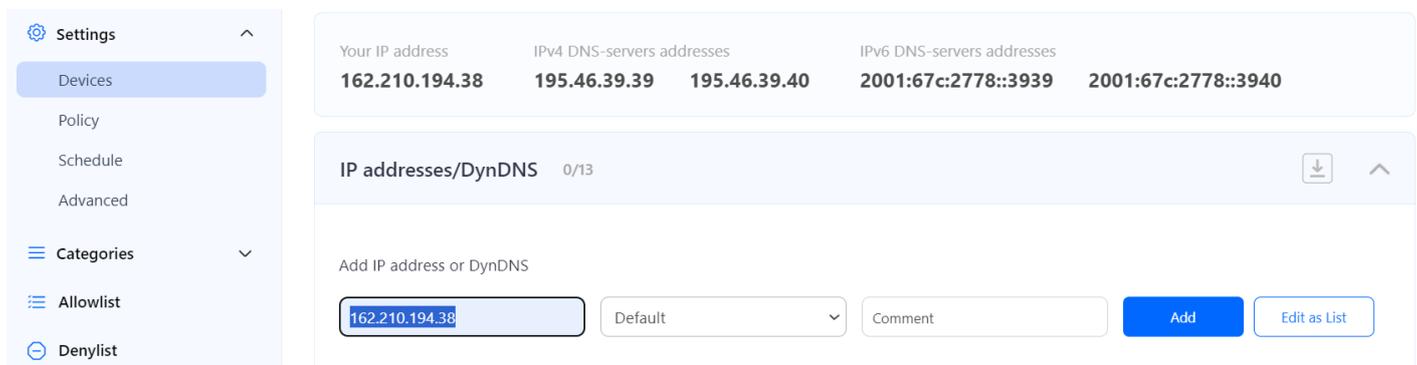


Asus and Asuswrt-Merlin Router Setup

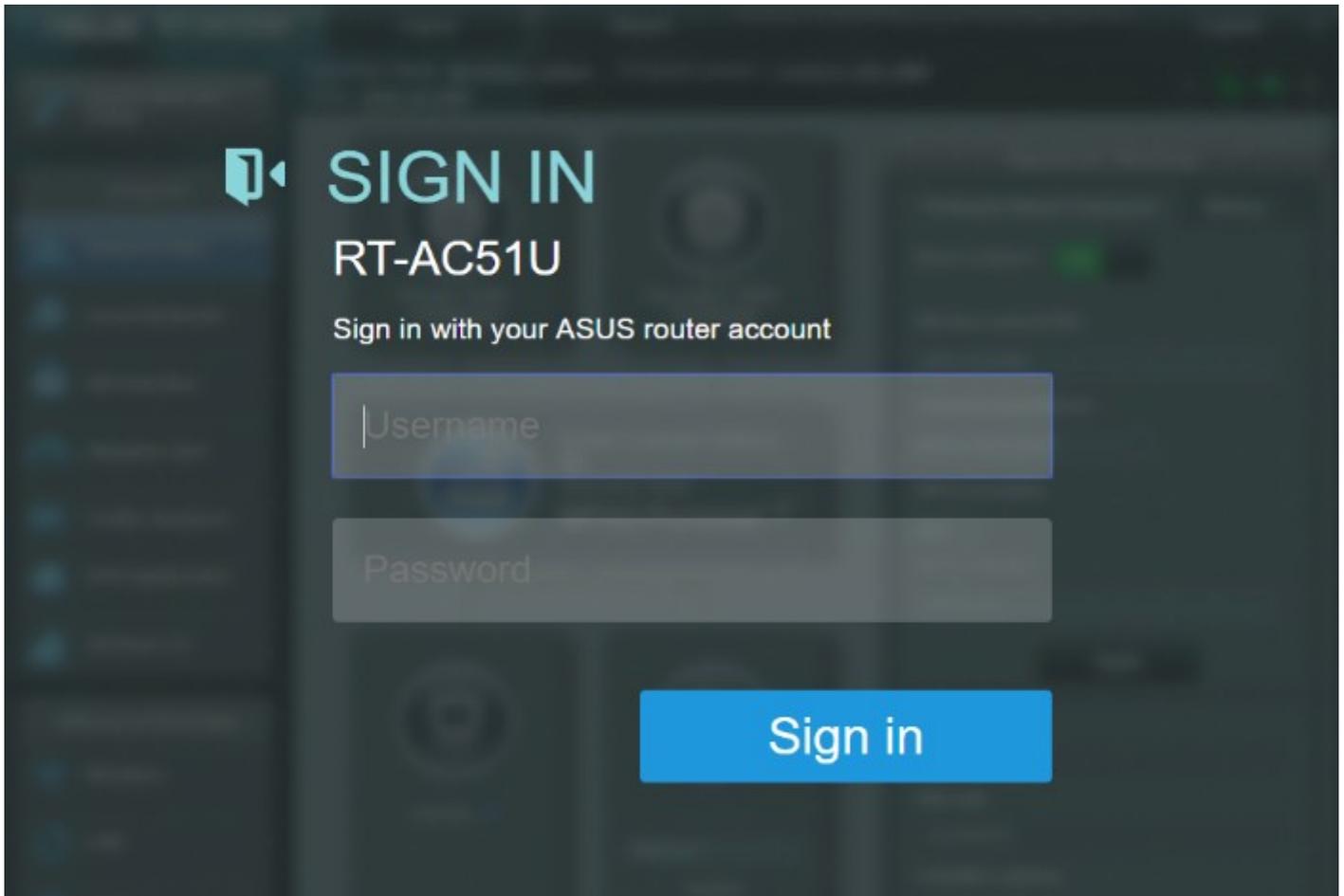
Router with Static IP address configuration

1. Go to SafeDNS **Dashboard > Settings > Devices** and copy your IP address to the "**IP addresses / DynDNS**" box, choose a policy, and click "**Add**".



The screenshot shows the 'Settings' menu on the left with 'Devices' selected. The main content area displays configuration options for IP addresses and DynDNS. At the top, there are three sections: 'Your IP address' (162.210.194.38), 'IPv4 DNS-servers addresses' (195.46.39.39, 195.46.39.40), and 'IPv6 DNS-servers addresses' (2001:67c:2778::3939, 2001:67c:2778::3940). Below this is a section titled 'IP addresses/DynDNS' with a counter '0/13' and a download icon. Underneath, there is a form to 'Add IP address or DynDNS' with a text input field containing '162.210.194.38', a dropdown menu set to 'Default', a 'Comment' field, and 'Add' and 'Edit as List' buttons.

2. Open a browser and type in the Default Gateway address into your browser's URL address bar. By default, it is 192.168.1.1

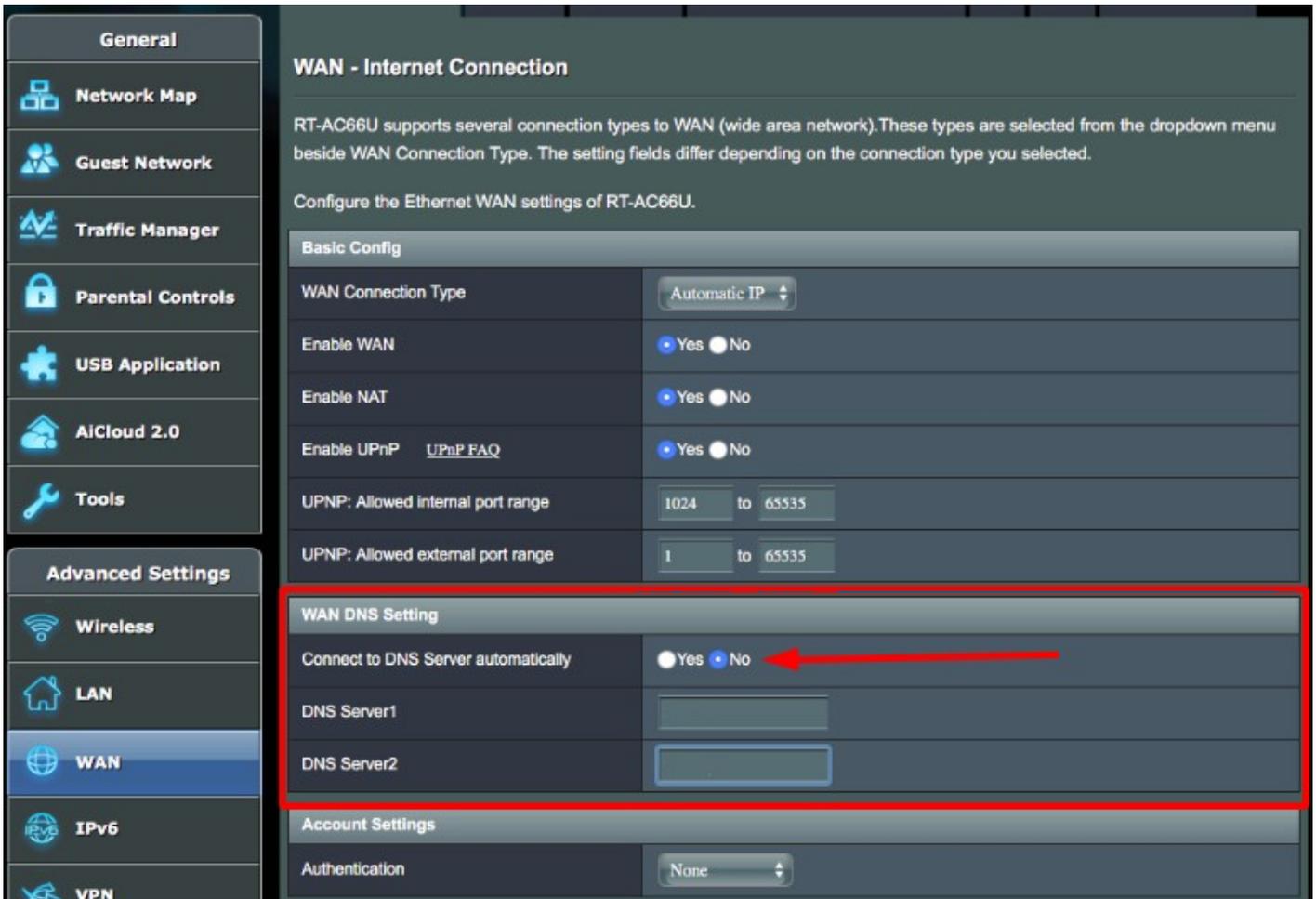


Your router might have a different Default Gateway IP address. Check the backside of your router to find the Default Gateway IP address of your particular router.

3. Once you log in, click on the WAN tab in the Advanced Settings section.



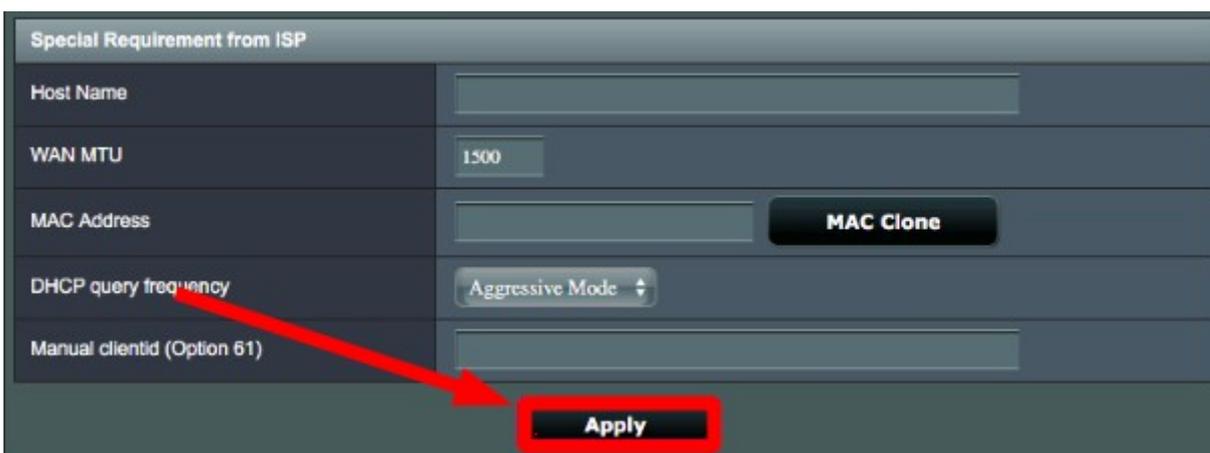
4. You will find the WAN DNS Settings tab there. Press on the NO option next to Connect to DNS server automatically.



5. In the DNS Server1 and DNS Server2 tabs, enter the following DNS addresses:

- 195.46.39.39
- 195.46.39.40

6. To save the changes, press Apply and restart your router.



In the Asus router, it's possible to force DNS traffic through port 53. These are the steps:

1. Click on WAN and go to Port trigger.
2. Enable the Port trigger.

3. In the section trigger port list enter:

name: SafeDNS

trigger port: 53

protocol: TCP

incoming port: 53

protocol: UDP

4. Click Add and Apply.

By blocking port 53, all devices connected to the router will be forced to use the SafeDNS servers.

You have successfully configured your router.

Please note that settings take 5-7 minutes to apply.

Stats and filtering status update every 10 minutes.

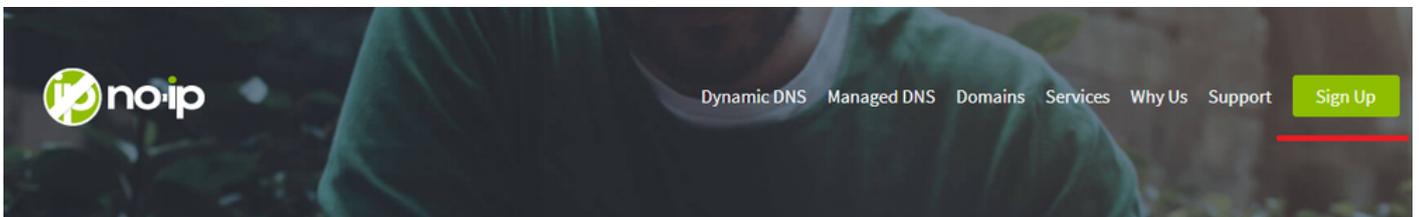
Router with Dynamic IP address configuration

In case you have a Dynamic IP address, you need to configure the DynDNS/DDNS on the router using a Dynamic DNS service.

Most modern routers provide their own DynDNS services. We recommend using them.

If your router does not have its own DynDNS service provider, we recommend using third-party NO-IP DynDNS.

1. Check the DynDNS service available for your router. If available, we recommend using the No IP DynDNS service provider.
2. Go to the website noip.com and sign up.



3. In your No-IP account, create a hostname (any name you can think of).

noip Support English demo@safedns.com

Dashboard Dynamic DNS **No-IP Hostnames** Personal Hostnames Groups Dynamic Update Client Update Clients Device Configuration Assistant My Services Account Support Center Add Priority Support

Hostnames

Create Hostname Search...

Hostname	Last Update	IP / Target	Type
- You currently have 0 hostnames, add one to get started -			

Help with Hostnames

Configure Your No-IP Hostname

Ever wondered what the difference is between Round Robin, A, CNAME records, and more? A quick guide of each DNS record type as well as how you would use them.

No-IP Referral Program

Ready to Earn \$5 in No-IP Credits For Every Paid Customer That You Refer to No-IP?

my@1462c31 2021-10-29T20:47:30Z web03

noip Support English demo@safedns.com

Dashboard Dynamic DNS **No-IP Hostnames** Personal Hostnames Groups Dynamic Update Client Update Clients Device Configuration Assistant My Services Account Support Center Add Priority Support

Hostnames

Create Hostname Search...

Hostname	Last Update	IP / Target	Type
justatestname01.ddns.net <small>Active</small>	Oct 31, 2021 07:55 PDT	162.210.194.38	A Modify

Help with Hostnames

Configure Your No-IP Hostname

Ever wondered what the difference is between Round Robin, A, CNAME records, and more? A quick guide of each DNS record type as well as how you would use them.

No-IP Referral Program

Ready to Earn \$5 in No-IP Credits For Every Paid Customer That You Refer to No-IP?

my@1462c31 2021-10-29T20:47:30Z web03

Create a Hostname

Hostname ⓘ

Domain ⓘ

 ▼

Record Type

 DNS Host (A) ⓘ AAAA (IPv6) ⓘ DNS Alias (CNAME) ⓘ Web Redirect ⓘ

[Manage](#) your Round Robin, TXT, SRV and DKIM records.

IPv4 Address ⓘ

Wildcard ⓘ

[Upgrade to Enhanced](#)

to enable wildcard hostnames.

MX Records

[+ Add MX Records](#)

4. Go back to your router and configure DDNS/DynDNS.

- Select No-IP as "**Server**".
- Type in the created hostname in the "**Host Name**" field.
- Type in your No-IP account credentials as "Username" and "Password", and click "Save".
- Set "**Enablewildcard**" to NO.

ASUS RT-AC66U Logout Reboot English

Operation Mode: **wireless router** Firmware Version: : **3.0.0.4.220**
 SSID: **ASUS ASUS_5G**

Internet Connection Port Trigger Virtual Server / Port Forwarding DMZ DDNS NAT Passthrough

WAN - DDNS

DDNS (Dynamic Domain Name System) is a service that allows network clients to connect to the wireless router, even with a dynamic public IP address, through its registered domain name. The wireless router is embedded with the ASUS DDNS service and other DDNS services.

The wireless router currently uses a private WAN IP address (192.168.x.x, 10.x.x.x, or 172.16.x.x).
 This router may be in the multiple-NAT environment and DDNS service cannot work in this environment.

Enable the DDNS Client	<input checked="" type="radio"/> Yes <input type="radio"/> No
Server	www.no-ip.com <input type="button" value="Free Trial"/>
Host Name	Example.No-IP.com
User Name or E-mail Address	Example@user.com
Password or DDNS Key
Enable wildcard	<input type="radio"/> Yes <input checked="" type="radio"/> No

Apply

Navigation Menu:
 Quick Internet Setup
 General
 Network Map
 Guest Network
 Traffic Manager
 Parental control
 USB application
 AiCloud
 Advanced Settings
 Wireless
 LAN
WAN
 IPv6
 VPN Server
 Firewall
 Administration

If everything is correct, DynDNS/DDNS settings will apply.

5. Go to SafeDNS **Dashboard > Settings > Devices** and copy your DynDNS hostname to the "**IP addresses / DynDNS**" box, choose a policy, and click "**Add**".

Main User administration Settings **Devices** Policy Schedule Advanced

Video instruction for setting up

Your IP address 162.210.194.38	IPv4 DNS-servers addresses 195.46.39.39 195.46.39.40	IPv6 DNS-servers addresses 2001:67c:2778::3939 2001:67c:2778::3940	DoH address <input type="text" value="https://doh.safedns.com"/>
--	--	--	---

IP addresses/DynDNS 0/13

Add IP address or DynDNS

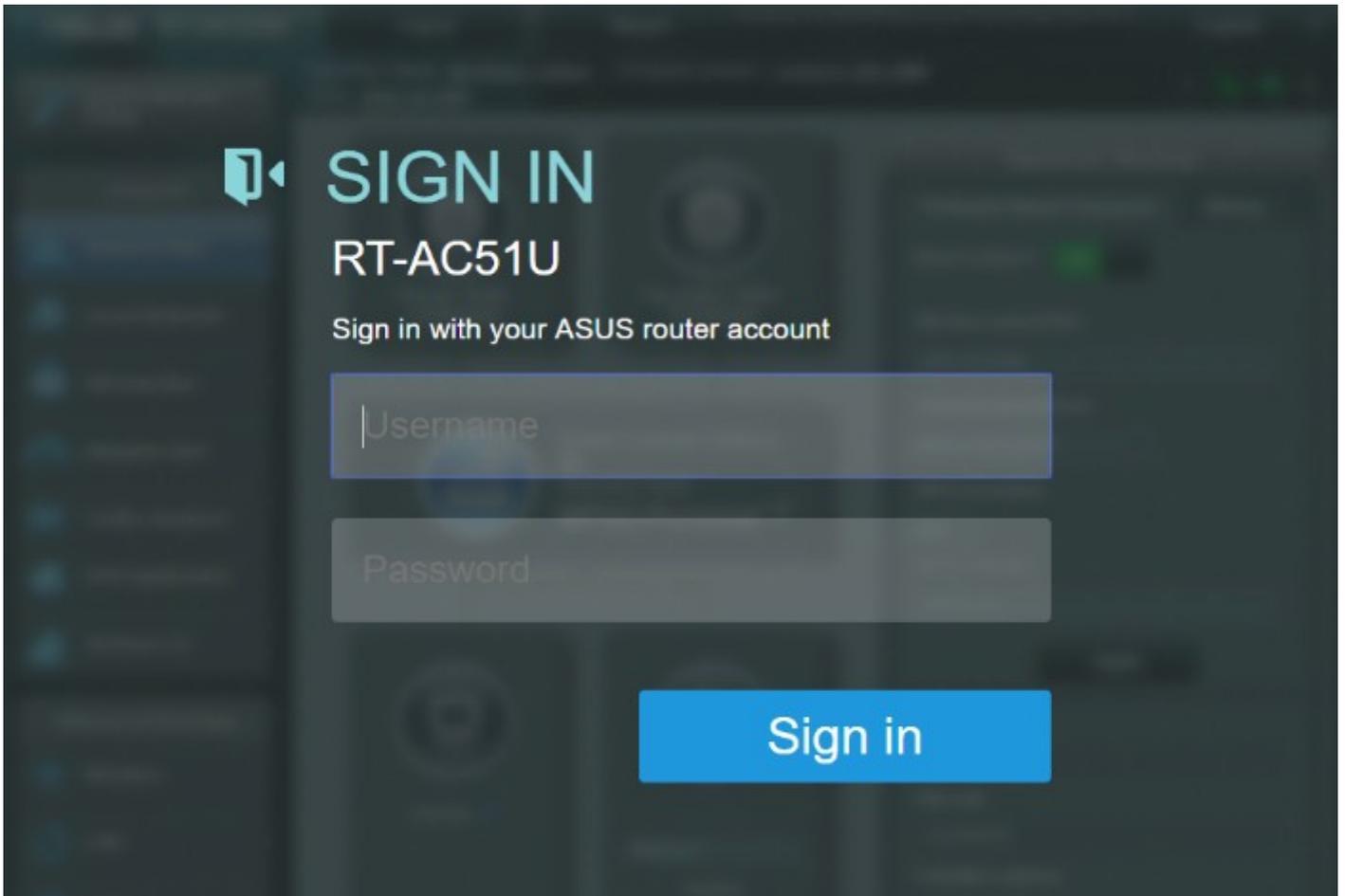
Once added, you will see it in the DynDNS section of the Dashboard.

IP addresses/DynDNS 2/13

Add IP address or DynDNS

IP address/DynDNS	Policy	Comment
justatestname01.ddns.net	Default	<input type="button" value="edit"/> <input type="button" value="trash"/>

6. Open a browser and type in the Default Gateway address into your browser's URL address bar. By default, it is 192.168.1.1

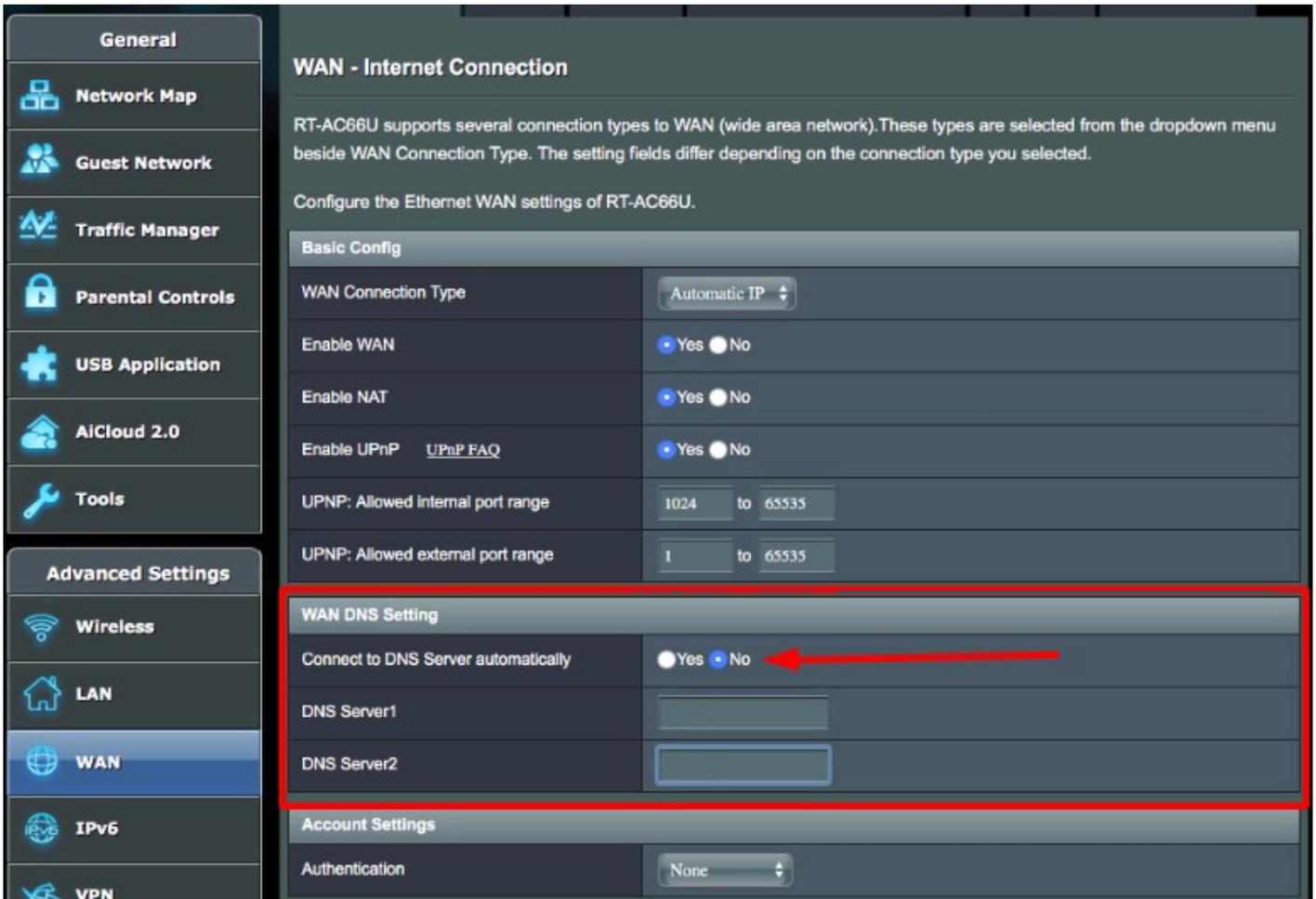


Your router might have a different Default Gateway IP address. Check the backside of your router to find the Default Gateway IP address of your particular router.

7. Once you log in, click on the WAN tab in the Advanced Settings section.



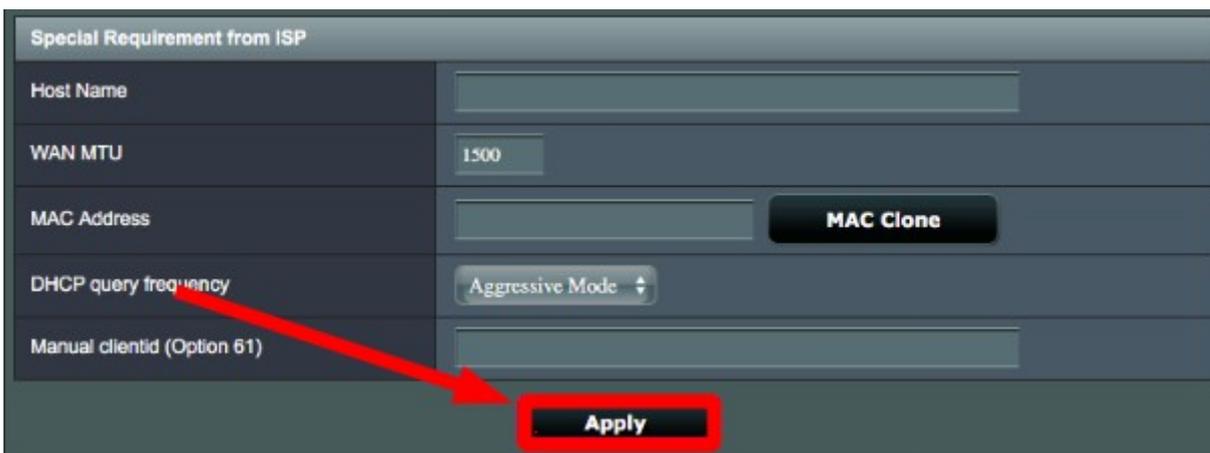
8. You will find the WAN DNS Settings tab there. Press on the NO option next to Connect to DNS server automatically.



9. In the DNS Server1 and DNS Server2 tabs, enter the following DNS addresses:

- 195.46.39.39
- 195.46.39.40

10. To save the changes, press Apply and restart your router.



In the Asus router, it's possible to force DNS traffic through port 53. These are the steps:

1. Click on WAN and go to Port trigger.
2. Enable the Port trigger.

3. In the section trigger port list enter:

name: SafeDNS

trigger port: 53

protocol: TCP

incoming port: 53

protocol: UDP

4. Click Add and Apply.

By blocking port 53, all devices connected to the router will be forced to use the SafeDNS servers.

You have successfully configured your router.

Please note that settings take 5-7 minutes to apply.

Stats and filtering status update every 10 minutes.

Asuswrt-Merlin DNS Director

This part of the article contains information for Asus routers with custom firmware Asuswrt-Merlin.

Asuswrt-Merlin is a third-party alternative firmware for Asus routers ([official page](#)).

List of the supported devices - [here](#).

DNS Director is a feature that allows you to force specific devices on your network to use specific DNS. This can be done globally, or on a per-device basis. Each of them can have a different nameserver enforced.

For example, you can have your LAN use a custom DNS server, but force your children's devices to use SafeDNS filtering.

Safe Family and Business plans users can group devices in up to 6 groups and filter them with different policies using the [NAT DNS feature](#).

The configuration can be found in the DNS Director tab, located in the LAN section:

DNS Director

DNS Director allows you to force LAN devices to use a specific DNS server, which can be useful if you want to force them to use a filtering service that would block malicious or adult sites. You can set a global network-wide server, or client-specific servers. Beside the available presets you can also define up to three different custom servers to use.

A few special System options are available in the presets. "No Redirection" will bypass a global redirection, and "Router" will force clients to use the DNS provided by the router's DHCP server (or, the router itself if it's not defined).

Settings		
Enable DNS Director	<input checked="" type="checkbox"/>	
Global Redirection	User Defined 1	
User defined DNS 1	IPv4: 195.46.39.39	IPv6: <input type="text"/>
User defined DNS 2	IPv4: 195.46.39.101	IPv6: <input type="text"/>
User defined DNS 3	IPv4: 195.46.39.102	IPv6: <input type="text"/>

Client List (Max Limit : 64)		
Client MAC address	Redirection	Add / Delete
<input type="text" value="ex: 04:42:1A:CD:54:80"/>	No Redirection	
ShieldTV 48:80: [MAC]	No Redirection	
camelot 3C:7C: [MAC]	User Defined 2	
Galaxy Tab S5e 6C:00: [MAC]	User Defined 1	

Apply

Configuring the filter using the DDclient

In rare cases when your router does not have a DynDNS/DDNS setting and your IP is Dynamic, you need to use third-party software - **DDclient** - on the PC connected to the network:

1. [Install DDclient](#) on a PC connected to the network. Once DDclient is installed, all devices connected to the same network will be filtered by the same rules.
2. Set up DNS servers in your router:

General

- Network Map
- Guest Network
- Traffic Manager
- Parental Controls
- USB Application
- AICloud 2.0
- Tools

Advanced Settings

- Wireless
- LAN
- WAN**
- IPv6
- VPN

WAN - Internet Connection

RT-AC66U supports several connection types to WAN (wide area network). These types are selected from the dropdown menu beside WAN Connection Type. The setting fields differ depending on the connection type you selected.

Configure the Ethernet WAN settings of RT-AC66U.

Basic Config	
WAN Connection Type	Automatic IP
Enable WAN	<input checked="" type="radio"/> Yes <input type="radio"/> No
Enable NAT	<input checked="" type="radio"/> Yes <input type="radio"/> No
Enable UPnP UPnP FAQ	<input checked="" type="radio"/> Yes <input type="radio"/> No
UPnP: Allowed internal port range	1024 to 65535
UPnP: Allowed external port range	1 to 65535

WAN DNS Setting	
Connect to DNS Server automatically	<input type="radio"/> Yes <input checked="" type="radio"/> No
DNS Server1	
DNS Server2	

Account Settings	
Authentication	None

Revision #5

Created 28 April 2024 19:42:33 by Val Redman

Updated 26 August 2024 12:43:03 by Mickaël Gauthier