

Router Setup (IPv6)

The first step is the same for both Static and Dynamic IP address configurations: change your router's DNS servers to SafeDNS addresses - **2001:67c:2778::3939** and **2001:67c:2778::3940**

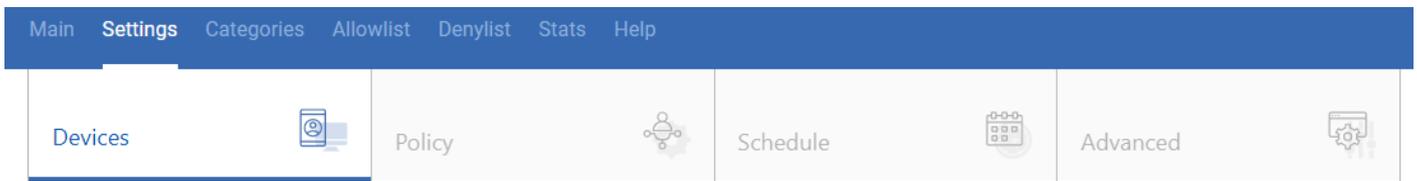
Go to the router's settings page, click the "**Advanced**" tab, and choose **IPv6** in the left menu. Choose "**IPv6 setup**" and type in SafeDNS IPv6 addresses.

The screenshot shows the TP-Link Archer C5 router's web interface. The top navigation bar includes the TP-Link logo, the model name 'Wireless Router Archer C5', and tabs for 'Quick Setup', 'Basic', and 'Advanced'. The 'Advanced' tab is selected. On the right side of the top bar, there are 'Logout' and 'Reboot' buttons. A left sidebar contains a list of settings categories: Status, Network, Dual Band Selection, Wireless 2.4GHz, Wireless 5GHz, Guest Network, DHCP, USB Settings, NAT Boost, Forwarding, Security, Parental Control, Access Control, Advanced Routing, Bandwidth Control, IP & MAC Binding, Dynamic DNS, and IPv6 Support (which is highlighted in blue). The main content area is titled 'WAN Setup' and has a green question mark icon. It features a checked 'Enable IPv6' option. The 'WAN Connection Type' is set to 'DHCPv6'. There are two radio button options: 'Get non-temporary IPv6 address.' (selected) and 'Get IPv6 prefix delegation.'. The 'IPv6 Address' field is empty, with 'Renew' and 'Release' buttons below it. Underneath, there are two radio button options for DNS: 'Get IPv6 DNS Server Automatically' and 'Use the following IPv6 DNS Servers' (selected). Two text input fields are provided for 'Primary IPv6 DNS' (2001:67c:2778::3939) and 'Secondary IPv6 DNS' (2001:67c:2778::3940), both marked as '(Optional)'. Below this is the 'LAN Setup' section, which has a blue header. It includes an 'IPv6 Address Assign Type' dropdown set to 'SLAAC'. The 'IPv6 Address Prefix' is '2001::' and the 'LAN IPv6 Address' is '2001:aa'. A 'Save' button is located at the bottom of the LAN Setup section.

Router with static IP address configuration

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

We recommend to add the whole IPv6 router subnet - first 4 segments with /64 at the end.
Example: **2600:1005:b062:61e4::/64** instead of
2600:1005:b062:61e4:1111:2222:3333:4444.



Devices

Your IP address	IPv4 DNS-servers addresses	IPv6 DNS-servers addresses
[REDACTED]	195.46.39.39 195.46.39.40	2001:67c:2778::3939 2001:67c:2778::3940

IP addresses/DynDNS 0/5

Add IP address or DynDNS

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.

Here's an example of the DynDNS menu on the TP-Link router with the TP-Link service provider:

The screenshot shows the TP-Link Archer C80 web interface. At the top, there is a teal header with the TP-Link logo and 'Archer C80' on the left, and 'Search', 'TP-Link ID', and 'Log Out' on the right. Below the header is a navigation bar with four icons: Network Map, Internet, Wireless, and Advanced (highlighted in yellow). On the left side, there is a sidebar menu with options: Quick Setup, Operation Mode, Network (highlighted in yellow), Status, Internet, LAN, IPTV/VLAN, DHCP Server, and Dynamic DNS (with a blue dot). The main content area is titled 'Dynamic DNS' and contains the following text: 'Assign a fixed host name (domain name) for remote access to your device, website, or server behind the router.' Below this is a dropdown menu for 'Service Provider' with 'TP-Link' selected. A note below the dropdown reads: 'Note: To use TP-Link DDNS service, log in with your TP-Link ID.'

You only need to create a DynDNS record in the router interface. Then skip to Step 6 below.

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

1. In the router setting, go to **DynDNS/DDNS settings**.

TP-LINK
Wireless Router Archer C5

Quick Setup | Basic | **Advanced** | Logout | Reboot

DDNS ?

Service Provider: No-IP (www.no-ip.com) [Go to register...](#)

User Name:

Password:

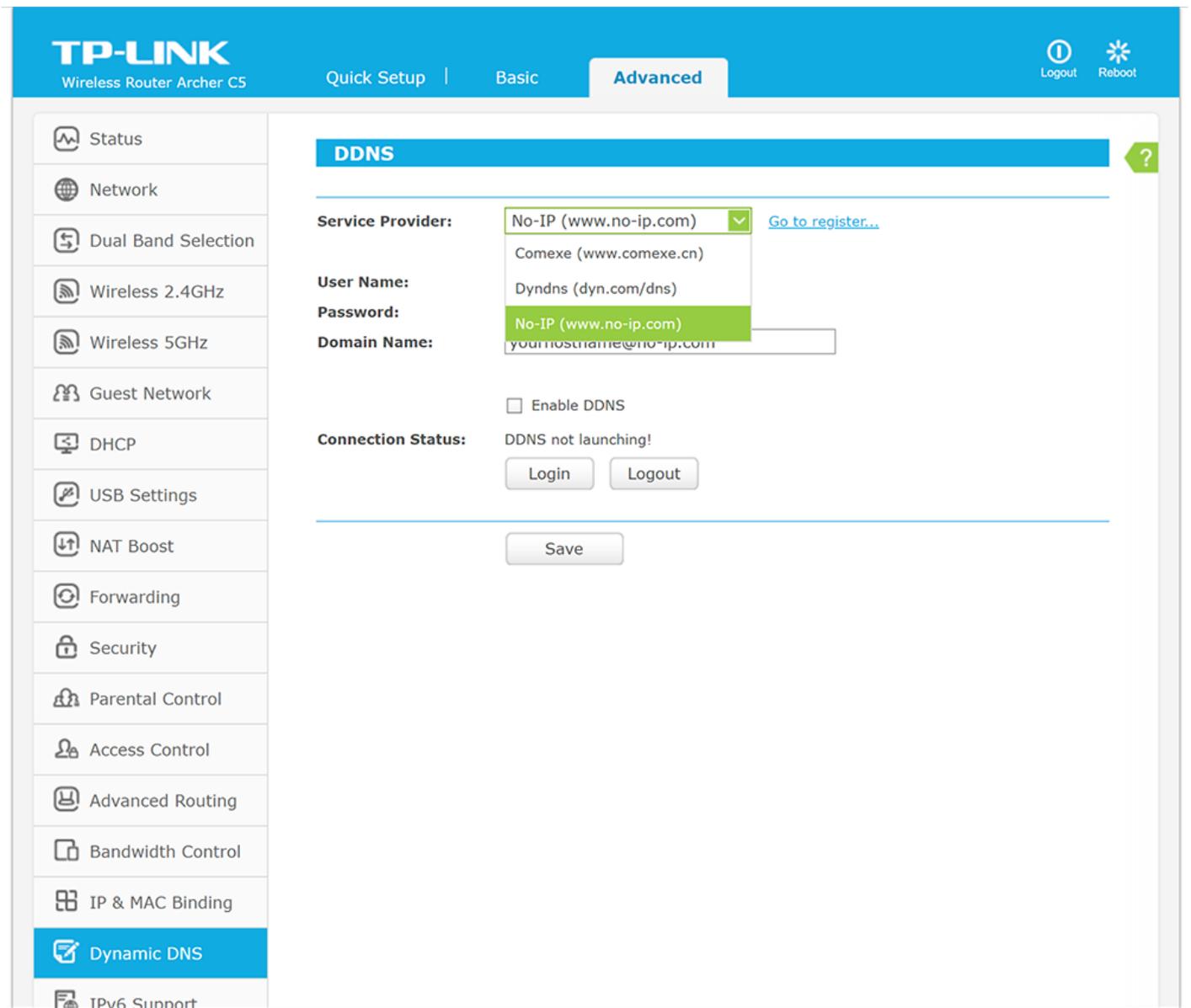
Domain Name:

Enable DDNS

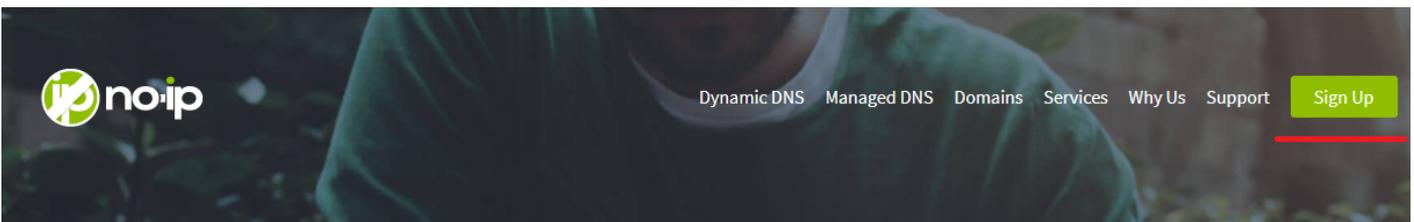
Connection Status: DDNS not launching!

Dynamic DNS

2. Check the DynDNS service available for your router. If available, we recommend using the **No-IP** DynDNS service provider.



3. Go to the website noip.com and sign up.



4. 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

5. Choose the IPv6 type and create the hostname. Make sure that the "IPv6 Address" field is containing your IPv6 address:

+ Create a Hostname

Hostname ⓘ

justatestname01

Domain ⓘ

ddns.net

Record Type ⓘ

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

Manage your Round Robin, TXT, SRV and DKIM records.

Wildcard ⓘ

Upgrade to Enhanced

to enable wildcard hostnames.

IPv4 Address ⓘ

[Redacted]

IPv6 Address ⓘ

ex: 2001:05c0:1000:000b::213d

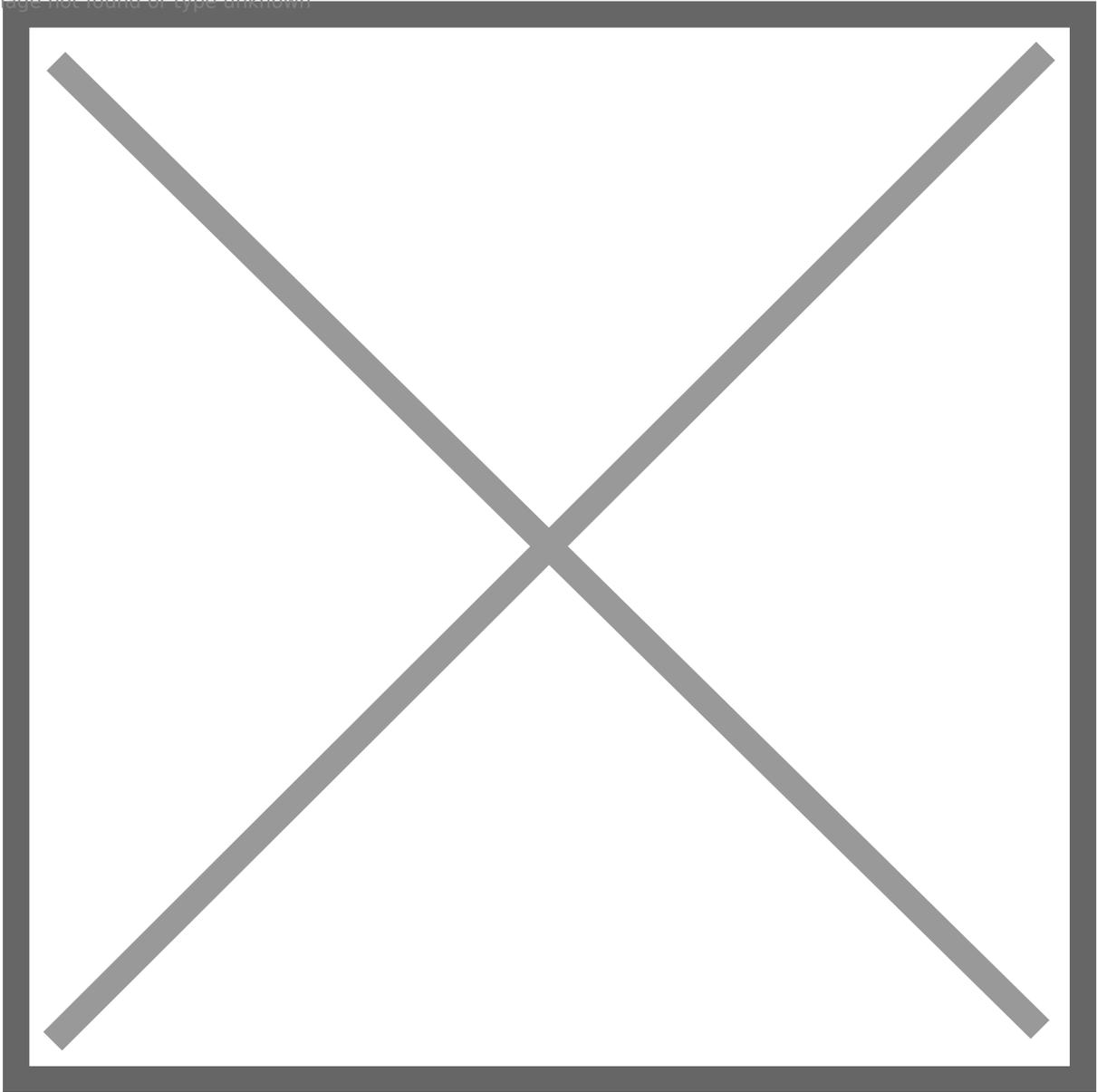
MX Records

+ Add MX Records

Cancel

Create Hostname

Image not found or type unknown



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

- Select No-IP as "**Service provider**".
- Type in the created hostname in the "**Hostname**" field.
- Type in your No-IP account credentials as "Username" and "Password", and click "Save".

TP-LINK
Wireless Router Archer C5

Quick Setup | Basic | **Advanced** | Logout | Reboot

- Status
- Network
- Dual Band Selection
- Wireless 2.4GHz
- Wireless 5GHz
- Guest Network
- DHCP
- USB Settings
- NAT Boost
- Forwarding
- Security
- Parental Control
- Access Control
- Advanced Routing
- Bandwidth Control
- IP & MAC Binding
- Dynamic DNS**
- IPv6 Support

DDNS

Service Provider: No-IP (www.no-ip.com) [Go to register...](#)

User Name:

Password:

Domain Name:

Enable DDNS

Connection Status: DDNS not launching!

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

my@1462c31 2021-10-29T20:47:30Z web02

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

IP address/DynDNS	Policy	Comment
justatestname01.ddns.net	Default	

You have successfully configured your router.

Please note that settings take 5-7 minutes to apply.
Stats and filtering status update every 10 minutes.

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. Set up DNS servers in your router:

TP-LINK Wireless Router Archer C5 | Quick Setup | Basic | **Advanced** | Logout | Reboot

- Status
- Network
- Dual Band Selection
- Wireless 2.4GHz
- Wireless 5GHz
- Guest Network
- DHCP
- USB Settings
- NAT Boost
- Forwarding
- Security
- Parental Control
- Access Control
- Advanced Routing
- Bandwidth Control
- IP & MAC Binding
- Dynamic DNS
- IPv6 Support**

WAN Setup

Enable IPv6

WAN Connection Type: DHCPv6

Get non-temporary IPv6 address.
 Get IPv6 prefix delegation.

IPv6 Address: ::
Renew Release

Get IPv6 DNS Server Automatically
 Use the following IPv6 DNS Servers

Primary IPv6 DNS: 2001:67c:2778::3939 (Optional)
Secondary IPv6 DNS: 2001:67c:2778::3940 (Optional)

LAN Setup

IPv6 Address Assign Type: SLAAC

IPv6 Address Prefix: 2001::/64
LAN IPv6 Address: 2001:aa

Save

2. [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.

Revision #10

Created 28 August 2022 10:47:15

Updated 28 January 2024 20:53:37 by Val Redman