

# Router Setup (IPv6)

## 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 adding 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**.

The screenshot shows the SafeDNS dashboard interface. On the left is a sidebar with navigation links: Main, User administration, Settings, Devices (highlighted), Policy, Schedule, and Advanced. Below these are sections for Categories, Allowlist, Denylist, Stats, and New Stats (Beta). The main content area has tabs for Devices, Policy, Schedule, and Advanced. The 'Devices' tab is selected, displaying a table with DNS configuration details. The table includes fields for 'Your IP address', 'IPv4 DNS-servers addresses' (195.46.39.39 and 195.46.39.40), 'IPv6 DNS-servers addresses' (2001:67c:2778::3939 and 2001:67c:2778::3940), and 'DoH address' (https://doh.safedns.com). Below the table, there's a section titled 'IP addresses/DynDNS' with a list of 1/13 items. An 'Add IP address or DynDNS' form is visible, containing a text input with the value '2600:1005:b062:61e4:/64', a dropdown menu set to 'Default', a 'Comment' field, and 'Add' and 'Edit as List' buttons.

| Your IP address | IPv4 DNS-servers addresses   | IPv6 DNS-servers addresses                 | DoH address ⓘ           |
|-----------------|------------------------------|--|-------------------------|
|                 | 195.46.39.39<br>195.46.39.40 | 2001:67c:2778::3939<br>2001:67c:2778::3940 | https://doh.safedns.com |

IP addresses/DynDNS 1/13

Add IP address or DynDNS

2600:1005:b062:61e4:/64 Default Comment Add Edit as List

2. Change your router's DNS servers to SafeDNS addresses - **2001:67c:2778::3939** and **2001:67c:2778::3940**

Open 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.

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

You have successfully configured your router.

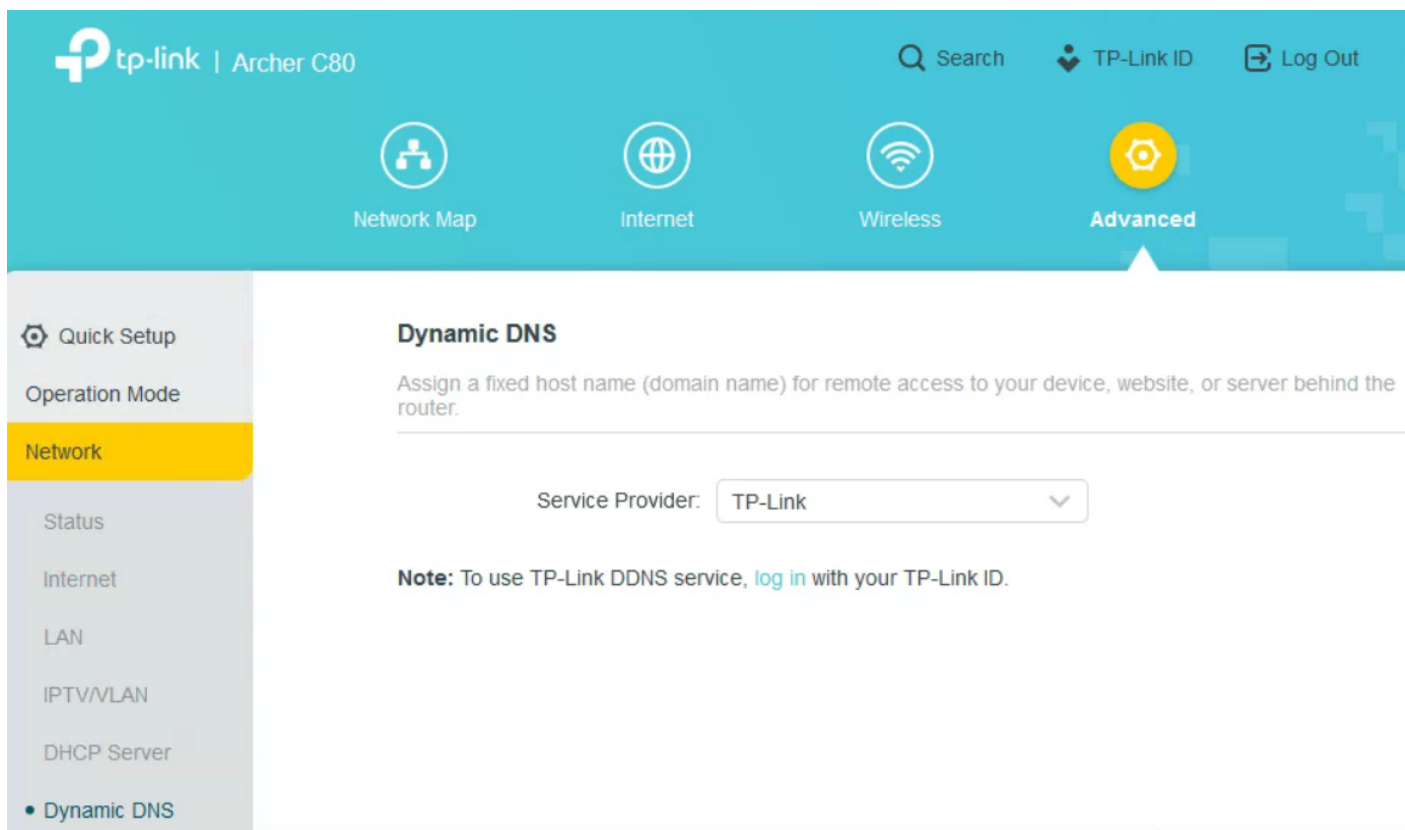
Please note that settings take 5-7 minutes to apply.  
Stats and filtering status update every 10 minutes.

## 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:



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**.

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DDNS

Service Provider:

No-IP (www.no-ip.com)

Go to register...

User Name:

username

Password:

.....

Domain Name:

yourhostname@no-ip.com

☐ Enable DDNS

Connection Status:

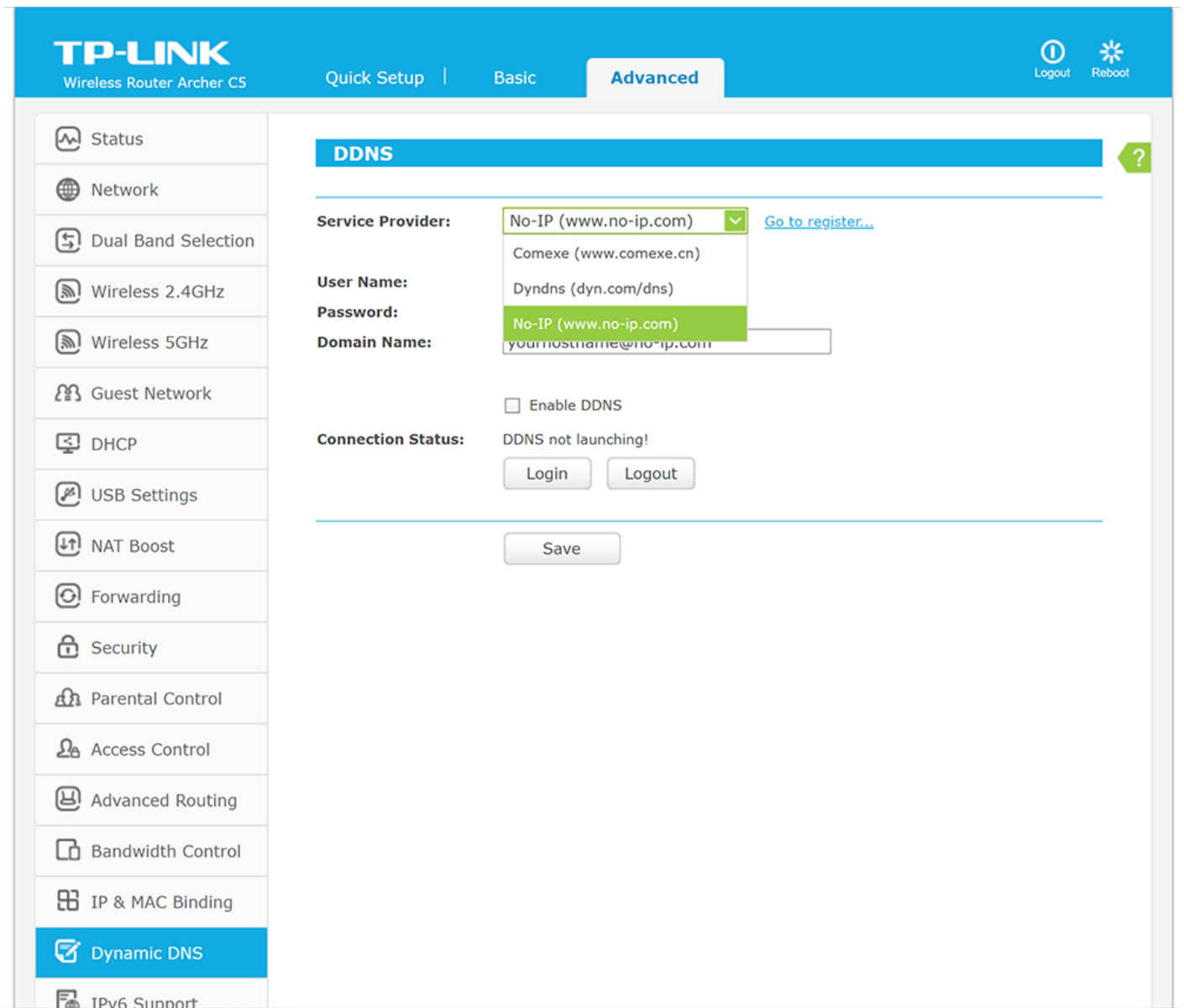
DDNS not launching!

Login

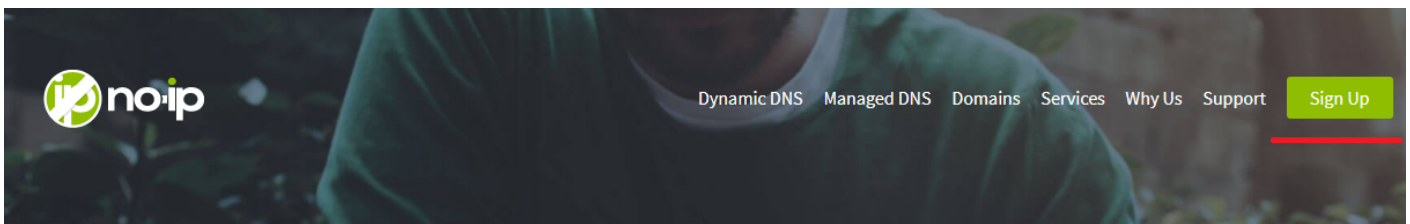
Logout

Save

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](http://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.

IPv4 Address

IPv6 Address

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

Wildcard

Upgrade to Enhanced

to enable wildcard hostnames.

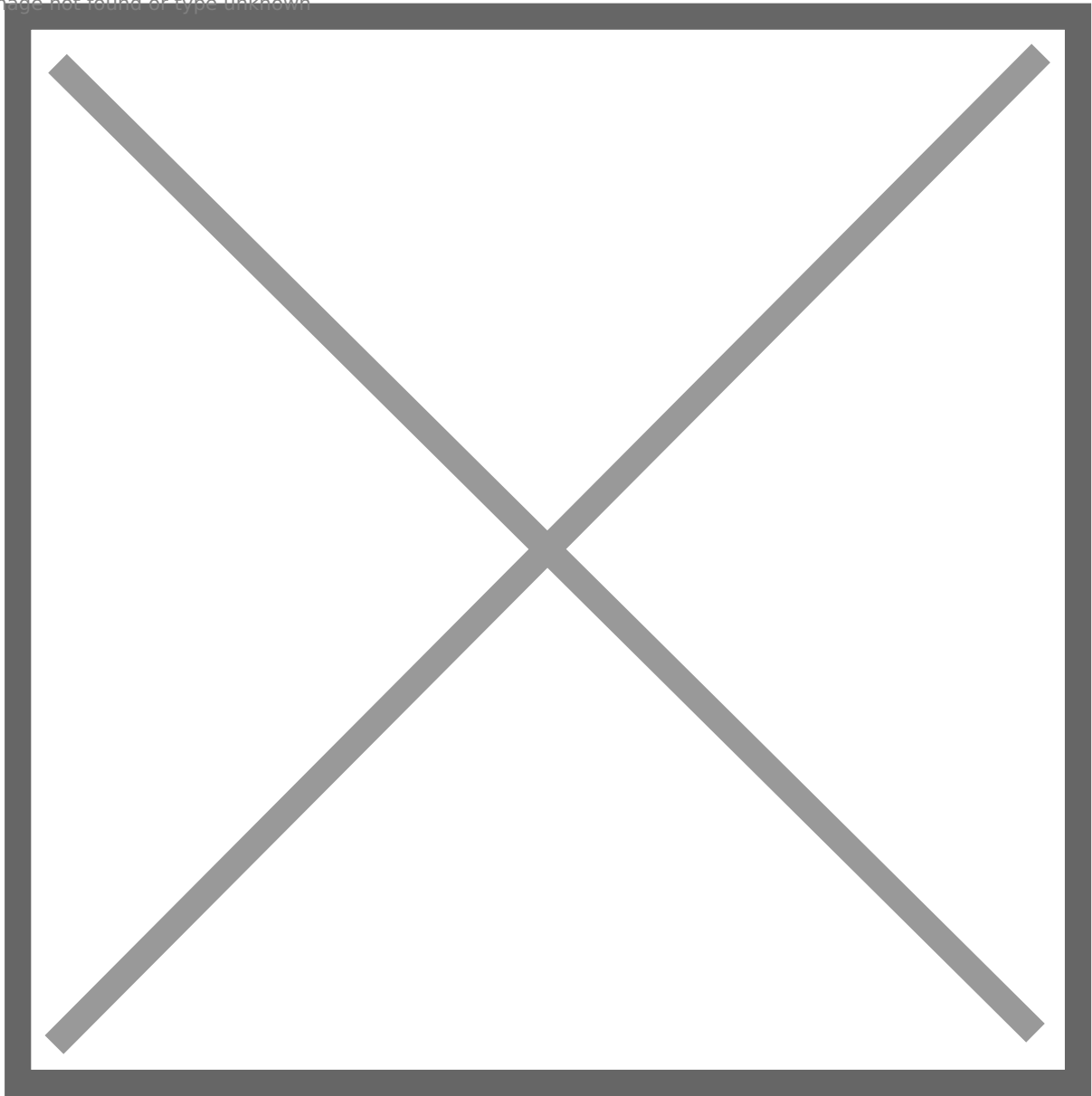
MX Records

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".

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DDNS

Service Provider:

No-IP (www.no-ip.com)

[Go to register...](#)

User Name:

username

Password:

\*\*\*\*\*

Domain Name:

yourhostname@no-ip.com

☒ Enable DDNS

Connection Status:

DDNS not launching!

Login

Logout

Save

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



noip

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Dynamic Update Client

Update Clients

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Add Priority Support

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Create Hostname

Search...

| Hostname                           | Last Update               | IP / Target | Type |
|------------------------------------|---------------------------|-------------|------|
| justatestname01.ddns.net<br>Active | Oct 31, 2021<br>08:39 PDT |             | AAAA |

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

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

IP addresses/DynDNS 2/13

Add IP address or DynDNS

Enter an IP-address or DynDNS

Default

Comment

Add

Edit as List

IP address or DynDNS

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

8. Change your router's DNS servers to SafeDNS addresses - **2001:67c:2778::3939** and **2001:67c:2778::3940**

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IPv6 Address Prefix:

2001::

/64

LAN IPv6 Address:

2001:aa

Save

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

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(Optional)

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(Optional)

LAN Setup

IPv6 Address Assign Type:

SLAAC

IPv6 Address Prefix:

2001::

/64

LAN IPv6 Address:

2001:aa

Save

Revision #13

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