

Comprehensive Guide: Setting up DynDNS Updater for Cloudflare

Step 1: Choose a Dynamic DNS Provider

- DynDNS offers a free dynamic DNS service that automatically updates your domain's IP address when it changes.
- Sign up for a DynDNS account and obtain your domain name and authentication credentials.

Step 2: Install and Configure DynDNS Updater

- Download the DynDNS Updater binary for your platform:
<https://dynupdate.com/downloads/>
- Run the updater with the following command: `./dynupdate -u <username> -p <password> -h <host>`
- Replace `<username>`, `<password>`, and `<host>` with your DynDNS credentials and domain name.

Step 3: Configure Cloudflare DNS Records

- Log in to your Cloudflare account and manage your domain's DNS records.
- Create two TXT records:
 - One record with the name `_dynupdate` and value `[DynDNS token]`
 - One record with the name `<your domain name>` and value `[Cloudflare IP]`

Step 4: Obtain Dynamic IP Address

- Use a script or external service to retrieve your current IP address.
- This can be done using tools like `ipinfo.io` or `curl ipinfo.io/ip`.

Step 5: Update DynDNS Record

- Write a script that runs the DynDNS updater every time the IP address changes.
- The script should:
 - Retrieve the current IP address.
 - Update the `_dynupdate` TXT record with the new token.

- Update the `<your domain name>` A record with the new IP address.

Step 6: Automate the Process

- Use a cronjob or systemd service to automatically run the update script at regular intervals.
- This ensures that your DNS records are always up-to-date and point to the correct IP address.

Tips:

- Choose a reliable script or service for IP address retrieval to minimize downtime.
- Update the frequency of updates based on your network's stability and requirements.
- Consider using a dedicated machine or container for DynDNS Updater to ensure consistent performance.

Further Resources:

- DynDNS Documentation: <https://dynupdate.com/docs/>
- Cloudflare DNS Documentation: <https://developers.cloudflare.com/dns/>

Note: This guide provides a basic overview of the process. For more advanced configurations and specific scenarios, refer to the official DynDNS and Cloudflare documentation.

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