

Cloudflare Dynamic DNS IP Updater

Installation

```
git clone https://github.com/K0p1-Git/cloudflare-ddns-updater.git
```

Usage

This script is used with crontab. Specify the frequency of execution through crontab.

```
# _____ minute (0 - 59)
# | _____ hour (0 - 23)
# | | _____ day of the month (1 - 31)
# | | | _____ month (1 - 12)
# | | | | _____ day of the week (0 - 6) (Sunday to Saturday 7 is also Sunday on some
systems)
# | | | | | _____ command to issue
# | | | | |
# | | | | |
# * * * * * /bin/bash {Location of the script}
```

• Tested Environments:

- macOS Mojave version 10.14.6 (x86_64)
- AlmaLinux 9.3 (Linux kernel: 5.14.0 | x86_64)
- Debian Bullseye 11 (Linux kernel: 6.1.28 | aarch64)

Contributing

Pull requests are welcome. For major changes, please open an issue first to discuss what you would like to change.

Reference

This script was made with reference from [Keld Norman](<https://www.youtube.com/watch?v=vSIBkH7sxos>) video.


```

    ip=$(curl -s https://api.ipify.org || curl -s https://ipv4.icanhazip.com)
else
    # Extract just the ip from the ip line from cloudflare.
    ip=$(echo $ip | sed -E "s/^ip=($ipv4_regex)$/\1/")
fi

# Use regex to check for proper IPv4 format.
if [[ ! $ip =~ ^$ipv4_regex$ ]]; then
    logger -s "DDNS Updater: Failed to find a valid IP."
    exit 2
fi

#####
## Check and set the proper auth header
#####
if [[ "${auth_method}" == "global" ]]; then
    auth_header="X-Auth-Key:"
else
    auth_header="Authorization: Bearer"
fi

#####
## Seek for the A record
#####

logger "DDNS Updater: Check Initiated"
record=$(curl -s -X GET
"https://api.cloudflare.com/client/v4/zones/$zone_idenfier/dns_records?type=A&name=$record_n
ame" \
        -H "X-Auth-Email: $auth_email" \
        -H "$auth_header $auth_key" \
        -H "Content-Type: application/json")

#####
## Check if the domain has an A record
#####
if [[ $record == *"\count\":0"* ]]; then
    logger -s "DDNS Updater: Record does not exist, perhaps create one first? (${ip} for
${record_name})"
    exit 1

```

```

fi

#####
## Get existing IP
#####
old_ip=$(echo "$record" | sed -E 's/.*"content":"([0-9]{1,3}\.){3}[0-9]{1,3})"*/\1/')
# Compare if they're the same
if [[ $ip == $old_ip ]]; then
    logger "DDNS Updater: IP ($ip) for ${record_name} has not changed."
    exit 0
fi

#####
## Set the record identifier from result
#####
record_identifier=$(echo "$record" | sed -E 's/.*"id":"([A-Za-z0-9_+)]*/\1/')

#####
## Change the IP@Cloudflare using the API
#####
update=$(curl -s -X PATCH
"https://api.cloudflare.com/client/v4/zones/$zone_identifier/dns_records/$record_identifier" \
    -H "X-Auth-Email: $auth_email" \
    -H "$auth_header $auth_key" \
    -H "Content-Type: application/json" \
    --data
"{\"type\": \"A\", \"name\": \"$record_name\", \"content\": \"$ip\", \"ttl\": \"$ttl\", \"proxied\": ${
proxy}}")

#####
## Report the status
#####
case "$update" in
*"\"success\":false"*)
    echo -e "DDNS Updater: $ip $record_name DDNS failed for $record_identifier ($ip). DUMPING
RESULTS:\n$update" | logger -s
    if [[ $slackuri != "" ]]; then
        curl -L -X POST $slackuri \
            --data-raw '{
                "channel": "'$slackchannel'",

```

```

        "text" : ""'$sitename"' DDNS Update Failed: '$record_name': '$record_identifie
($ip')."
    }'
fi
if [[ $discorduri != "" ]]; then
    curl -i -H "Accept: application/json" -H "Content-Type:application/json" -X POST \
    --data-raw '{
        "content" : ""'$sitename"' DDNS Update Failed: '$record_name': '$record_identifie
($ip')."
    }' $discorduri
fi
exit 1;;
*)
logger "DDNS Updater: $ip $record_name DDNS updated."
if [[ $slackuri != "" ]]; then
    curl -L -X POST $slackuri \
    --data-raw '{
        "channel": "'$slackchannel'",
        "text" : ""'$sitename"' Updated: '$record_name''''''s'''''' new IP Address is '$ip'"
    }'
fi
if [[ $discorduri != "" ]]; then
    curl -i -H "Accept: application/json" -H "Content-Type:application/json" -X POST \
    --data-raw '{
        "content" : ""'$sitename"' Updated: '$record_name''''''s'''''' new IP Address is '$ip'"
    }' $discorduri
fi
exit 0;;
esac

```

Revision #4

Created 2025-07-30 22:21:25 UTC by Admin

Updated 2025-07-30 22:36:30 UTC by Admin