

Holdfast DDNS Setup Guides

Universal update contract (dyndns2):

```
GET https://holdfastdns.com/nic/update?hostname=YOURHOST&myip=IP
Authorization: Basic base64(EMAIL:TOKEN)
```

Responses: `good IP` (accepted, changed), `nochg IP` (accepted, unchanged), `badauth`, `notfqdn`, `abuse` (rate limited), `dnserr`. If `myip` is omitted, the server uses the connection source IP.

Use your **email address as the username** and your **hostname token as the password**.

macOS — launchd + curl

Create `~/bin/ddns-update.sh`:

```
#!/bin/bash
HOST="host.example.com"
USER="your@email.com"
TOKEN="YOUR_TOKEN"
SERVER="https://holdfastdns.com"
curl -fsS -u "${USER}:${TOKEN}" \
    "${SERVER}/nic/update?hostname=${HOST}"
```

Make executable: `chmod +x ~/bin/ddns-update.sh`.

Create `~/Library/LaunchAgents/holdfast.ddns.plist`:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" \
    "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
    <key>Label</key><string>holdfast.ddns</string>
    <key>ProgramArguments</key>
    <array>
        <string>/bin/bash</string>
        <string>/Users/YOU/bin/ddns-update.sh</string>
    </array>
    <key>StartInterval</key><integer>300</integer>
    <key>RunAtLoad</key><true/>
    <key>StandardOutPath</key>
    <string>/Users/YOU/Library/Logs/holdfast-ddns.log</string>
    <key>StandardErrorPath</key>
    <string>/Users/YOU/Library/Logs/holdfast-ddns.log</string>
</dict>
</plist>
```

Load: `launchctl load ~/Library/LaunchAgents/holdfast.ddns.plist`.

Windows — Task Scheduler + PowerShell

Create `C:\Tools\ddns-update.ps1`:

```

$HostName = "host.example.com"
$User      = "your@email.com"
$Token     = "YOUR_TOKEN"
$Server    = "https://holdfastdns.com"
$Cred      = [Convert]::ToBase64String([Text.Encoding]::ASCII.GetBytes("${User}:${Token}"))
$Headers   = @{ Authorization = "Basic $Cred" }
Invoke-RestMethod -Uri "${Server}/nic/update?hostname=${HostName}" -Headers $Headers

```

Open Task Scheduler → Create Task: - General: run whether user is logged on or not. - Triggers: At startup, repeat every 5 minutes indefinitely. - Actions: `powershell.exe -ExecutionPolicy Bypass -File C:\Tools\ddns-update.ps1`.

Linux — systemd timer + curl

Create `/usr/local/bin/ddns-update`:

```

#!/bin/bash
HOST="host.example.com"
USER="your@email.com"
TOKEN="YOUR_TOKEN"
SERVER="https://holdfastdns.com"
curl -fsS -u "${USER}:${TOKEN}" \
    "${SERVER}/nic/update?hostname=${HOST}"

```

`chmod +x /usr/local/bin/ddns-update`.

`/etc/systemd/system/ddns-update.service`:

```

[Unit]
Description=Holdfast DDNS update

[Service]
Type=oneshot
ExecStart=/usr/local/bin/ddns-update

```

`/etc/systemd/system/ddns-update.timer`:

```

[Unit]
Description=Run Holdfast DDNS update every 5 minutes

[Timer]
OnBootSec=1min
OnUnitActiveSec=5min

[Install]
WantedBy=timers.target

```

Enable: `systemctl enable --now ddns-update.timer`.

ddclient config

`/etc/ddclient.conf`:

```
use=web, web=https://holdfastdns.com/checkip
protocol=dyndns2
server=holdfastdns.com
login=your@email.com
password=YOUR_TOKEN
host.example.com
```

```
systemctl enable --now ddclient.
```

MikroTik — RouterOS scheduler + /tool fetch

Add a script and scheduler in RouterOS 7:

```
/system script add name=ddns-update source="\
:local host \"host.example.com\";\
:local user \"your@email.com\";\
:local token \"YOUR_TOKEN\";\
:local server \"https://holdfastdns.com\";\
:local currentip [/ip address get [find interface=\"ether1\"] address];\
:set currentip [:pick $currentip 0 [:find $currentip \"/\"]]; \
:global ddnslastip;\
:if ($currentip != $ddnslastip) do={\
    /tool fetch url=(\"$server/nic/update?hostname=\" . $host . \"&myip=\" . $currentip)\
    mode=http http-method=get user=$user password=$token check-certificate=no;\
    :set ddnslastip $currentip;\
}"
/system scheduler add name=ddns interval=5m on-event=ddns-update
```

Replace `ether1` with your WAN interface. Use `mode=https` and `check-certificate=yes` once a valid cert is deployed.

One-line curl smoke test

```
curl -u your@email.com:YOUR_TOKEN "https://holdfastdns.com/nic/update?
hostname=host.example.com&myip=1.2.3.4"
```

Expected first response: `good 1.2.3.4`. On unchanged subsequent calls: `nochg 1.2.3.4`.