

Below is the **clearest, safest, step-by-step guide** to access your Raspberry Pi Nextcloud **securely from outside your home**.

There are **three safe methods**, but only **one** is recommended for beginners.

✓ **Use Cloudflare Tunnel (MOST SECURE + easiest)**

- ✓ No port-forwarding
- ✓ No firewall changes
- ✓ Free
- ✓ Automatically HTTPS
- ✓ Hides your home IP from the public
- ✓ Works on mobile and desktop
- ✓ Avoids attacks that normally hit home servers

This is the recommended method.

✓ ****METHOD 1 (Recommended): Cloudflare Tunnel — Secure Public Access**

(NO port forwarding, NO exposing your home network)**

What you need

1. A free Cloudflare account
2. A domain name (you can buy one cheaply anywhere: Namecheap, Google Domains, Cloudflare, etc.)
3. Your Raspberry Pi running Nextcloud

Step 1 — Create a Free Cloudflare Account

Go to:

<https://dash.cloudflare.com>

Sign up.

Step 2 — Add Your Domain to Cloudflare

If your domain is:

myfamilycloud.com

Cloudflare will give you **nameservers** to enter at your domain registrar.

Change nameservers → wait 5–10 minutes.

Step 3 — Install Cloudflare Tunnel on Raspberry Pi

Run:

```
curl -fsSL https://github.com/cloudflare/cloudflared/releases/latest/download/cloudflared-linux-arm64.deb -o cloudflared.deb
```

```
sudo dpkg -i cloudflared.deb
```

Install as a service:

```
sudo cloudflared service install
```

Step 4 — Authenticate your Pi with Cloudflare

Run:

```
cloudflared tunnel login
```

This opens a URL.

Open the URL on a laptop or phone → **select your domain**.

Step 5 — Create the Tunnel

Run:

```
cloudflared tunnel create nextcloud-pi
```

Cloudflare will generate a tunnel ID.

Step 6 — Route a Public Hostname to Your Pi

For example, you want:

```
https://cloud.mydomain.com
```

Run:

```
cloudflared tunnel route dns nextcloud-pi cloud.mydomain.com
```

Step 7 — Create Tunnel Config File

Edit:

```
sudo nano /etc/cloudflared/config.yml
```

Paste:

```
tunnel: nextcloud-pi
```

```
credentials-file: /root/.cloudflared/<YOUR-TUNNEL-ID>.json
```

```
ingress:
```

```
- hostname: cloud.mydomain.com
```

```
  service: http://127.0.0.1:80
```

```
- service: http_status:404
```

Save → exit.

Step 8 — Start the Tunnel

```
sudo systemctl start cloudflared
```






```
sudo systemctl enable cloudflared
```

Now test:

Open:

```
https://cloud.mydomain.com
```

Nextcloud should load securely with:

-  Automatic HTTPS
 -  No port forwarding
 -  No exposure of your home internet IP
 -  Cloudflare firewall + DDoS protection
 -  Works anywhere in the world
-

✅ **OPTIONAL — Secure Nextcloud Trusted Domains**

Edit:

```
sudo nano /var/www/nextcloud/config/config.php
```

Add:

```
2 => 'cloud.mydomain.com',
```

Save → exit → restart web server.

✅ **Done.**

Your Nextcloud is now fully secure and accessible from anywhere.