

Supabase CDN

Supabase Storage **automatically uses a built-in CDN** (powered by Fly.io and Cloudflare) for all files in **public buckets**.

1. What Works with the Built-in CDN:

- **All static files** (images, videos, docs, zip files)
- **Only in public buckets** (private buckets bypass CDN)
- Automatic **global caching** via Smart CDN
- Cache invalidation on file updates

2. What Doesn't Work

- Private files (require auth tokens)
- API endpoints or dynamic content
- query parameters

How It Works

- Files are **cached globally** at edge locations.
- URLs follow this structure:
`https://[project-ref].supabase.co/storage/v1/object/public/[bucket]/[filename]`
- Example:
`https://abc123.supabase.co/storage/v1/object/public/products/image.jpg`
- The CDN **automatically caches** files and **revalidates** when files are updated (Smart CDN feature).

How to Use It (Just Upload Files!)

Since the CDN is **enabled by default**, all you need to do is:

Step 1: Upload a File

```
const { data, error } = await supabase.storage
  .from('products') // Your bucket name
  .upload('image.jpg', file); // File to upload
```

Step 2: Access the File via CDN

The file is instantly available at:

[https://\[project-ref\].supabase.co/storage/v1/object/public/products/image.jpg](https://[project-ref].supabase.co/storage/v1/object/public/products/image.jpg)

Automatically cached worldwide via Supabase's CDN.

Optional: Optimize Caching (Cache-Control Headers)

If you want **more control over caching**, you can set Cache-Control when uploading:

```
await supabase.storage
  .from('products')
  .upload('image.jpg', file, {
    cacheControl: 'public, max-age=86400' // Cache for 1 day (in seconds)
  });
```

- `public` = Allows caching by CDN & browsers
- `max-age=86400` = How long to cache (in seconds)

When Does the CDN Update?

- If you **replace/delete a file**, the CDN **automatically refreshes**.
- No manual cache purging needed (Smart CDN handles it).

Limitations

- **No custom domains** (URLs will always contain supabase.co).
 - Workaround: Use Cloudflare (see below).
- **No granular CDN settings** (e.g., geo-blocking, advanced cache rules).
 - Workaround: Use AWS CloudFront or Cloudflare.

When to Use Supabase's Default CDN?

If you just need **fast global file delivery**.

If you don't need custom domains or advanced caching.