

Static Exports

Next.js enables starting as a static site or Single-Page Application (SPA), then later optionally upgrading to use features that require a server.

When running `next build`, Next.js generates an HTML file per route. By breaking a strict SPA into individual HTML files, Next.js can avoid loading unnecessary JavaScript code on the client-side, reducing the bundle size and enabling faster page loads.

Since Next.js supports this static export, it can be deployed and hosted on any web server that can serve HTML/CSS/JS static assets.

Note: We recommend using the App Router for enhanced static export support.

Configuration

To enable a static export, change the output mode inside `next.config.js`:

JS next.config.js



```
1  /**
2   * @type {import('next').NextConfig}
3   */
4  const nextConfig = {
5    output: 'export',
6    // Optional: Add a trailing slash to all paths `/about` -> `/about/`
7    // trailingSlash: true,
8    // Optional: Change the output directory `out` -> `dist`
9    // distDir: 'dist',
10 };
11
12 module.exports = nextConfig;
```

After running `next build`, Next.js will produce an `out` folder which contains the HTML/CSS/JS assets for your application.

You can utilize `getStaticProps` and `getStaticPaths` to generate an HTML file for each page in your `pages` directory (or more for [dynamic routes](#)).

Supported Features

The majority of core Next.js features needed to build a static site are supported, including:

- [Dynamic Routes when using `getStaticPaths`](#)
- Prefetching with `next/link`
- Preloading JavaScript
- [Dynamic Imports](#)
- Any styling options (e.g. CSS Modules, styled-jsx)
- [Client-side data fetching](#)
- `getStaticProps`
- `getStaticPaths`

Image Optimization

[Image Optimization](#) through `next/image` can be used with a static export by defining a custom image loader in `next.config.js`. For example, you can optimize images with a service like Cloudinary:

JS next.config.js



```
1  /** @type {import('next').NextConfig} */
2  const nextConfig = {
3    output: 'export',
4    images: {
5      loader: 'custom',
6      loaderFile: './app/image.ts',
7    },
8  };
9
10 module.exports = nextConfig;
```

This custom loader will define how to fetch images from a remote source. For example, the following loader will construct the URL for Cloudinary:

```
1 export default function cloudinaryLoader({
2   src,
3   width,
4   quality,
5 }: {
6   src: string;
7   width: number;
8   quality?: number;
9 }) {
10   const params = ['f_auto', 'c_limit', `w_${width}`, `q_${quality || 'auto'}`];
11   return `https://res.cloudinary.com/demo/image/upload/${params.join(
12     ',',
13   )}${src}`;
14 }
```

You can then use `next/image` in your application, defining relative paths to the image in Cloudinary:

```
1 import Image from 'next/image';
2
3 export default function Page() {
4   return <Image alt="turtles" src="/turtles.jpg" width={300} height={300} />;
5 }
```

Unsupported Features

Features that require a Node.js server, or dynamic logic that cannot be computed during the build process, are not supported:

- [Internationalized Routing](#)
- [API Routes](#)
- [Rewrites](#)
- [Redirects](#)
- [Headers](#)
- [Middleware](#)
- [Incremental Static Regeneration](#)
- `getStaticPaths` with `fallback: true`

- `getStaticPaths` with `fallback: 'blocking'`
 - `getServerSideProps`
 - `Image Optimization` (default loader)
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Deploying

With a static export, Next.js can be deployed and hosted on any web server that can serve HTML/CSS/JS static assets.

When running `next build`, Next.js generates the static export into the `out` folder. Using `next export` is no longer needed. For example, let's say you have the following routes:

- `/`
- `/blog/[id]`

After running `next build`, Next.js will generate the following files:

- `/out/index.html`
- `/out/404.html`
- `/out/blog/post-1.html`
- `/out/blog/post-2.html`

If you are using a static host like Nginx, you can configure rewrites from incoming requests to the correct files:

nginx.conf



```
1  server {
2    listen 80;
3    server_name acme.com;
4
5    root /var/www;
6
7    location / {
8        try_files /out/index.html =404;
9    }
10
11    location /blog/ {
12        rewrite ^/blog/(.*)$ /out/blog/$1.html break;
13    }
14
```

```
15   error_page 404 /out/404.html;  
16   location = /404.html {  
17       internal;  
18   }  
19 }
```

Version History

Version	Changes
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v13.4.0	App Router (Stable) adds enhanced static export support, including using React Server Components and Route Handlers
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v13.3.0	<code>next export</code> is deprecated and replaced with <code>"output": "export"</code>
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