

redirects

Redirects allow you to redirect an incoming request path to a different destination path.

To use redirects you can use the `redirects` key in `next.config.js`:

 next.config.js

```
1 module.exports = {
2   async redirects() {
3     return [
4       {
5         source: '/about',
6         destination: '/',
7         permanent: true,
8       },
9     ];
10  },
11  };
```

`redirects` is an async function that expects an array to be returned holding objects with `source`, `destination`, and `permanent` properties:

- `source` is the incoming request path pattern.
- `destination` is the path you want to route to.
- `permanent` `true` or `false` - if `true` will use the 308 status code which instructs clients/search engines to cache the redirect forever, if `false` will use the 307 status code which is temporary and is not cached.

Why does Next.js use 307 and 308? Traditionally a 302 was used for a temporary redirect, and a 301 for a permanent redirect, but many browsers changed the request method of the redirect to `GET`, regardless of the original method. For example, if the browser made a request to `POST /v1/users` which returned status code `302` with location `/v2/users`, the subsequent request might be `GET /v2/users` instead of the expected `POST /v2/users`. Next.js uses the 307 temporary redirect, and 308 permanent redirect status codes to explicitly preserve the request method used.

- `basePath`: `false` or `undefined` - if `false` the `basePath` won't be included when matching, can be used for external redirects only.
- `locale`: `false` or `undefined` - whether the locale should not be included when matching.
- `has` is an array of [has objects](#) with the `type`, `key` and `value` properties.
- `missing` is an array of [missing objects](#) with the `type`, `key` and `value` properties.

Redirects are checked before the filesystem which includes pages and `/public` files.

Redirects are not applied to client-side routing (`Link`, `router.push`), unless [Middleware](#) is present and matches the path.

When a redirect is applied, any query values provided in the request will be passed through to the redirect destination. For example, see the following redirect configuration:

```
1 {
2   source: '/old-blog/:path*',
3   destination: '/blog/:path*',
4   permanent: false
5 }
```

When `/old-blog/post-1?hello=world` is requested, the client will be redirected to `/blog/post-1?hello=world`.

Path Matching

Path matches are allowed, for example `/old-blog/:slug` will match `/old-blog/hello-world` (no nested paths):

JS next.config.js



```
1 module.exports = {
2   async redirects() {
3     return [
4       {
5         source: '/old-blog/:slug',
6         destination: '/news/:slug', // Matched parameters can be used in the destination
7         permanent: true,
8       },
9     ];
10  },
11  };
```

Wildcard Path Matching

To match a wildcard path you can use `*` after a parameter, for example `/blog/:slug*` will match `/blog/a/b/c/d/hello-world`:

JS next.config.js



```
1 module.exports = {
2   async redirects() {
3     return [
4       {
5         source: '/blog/:slug*',
6         destination: '/news/:slug*', // Matched parameters can be used in the destination
7         permanent: true,
8       },
9     ];
10  },
11  };
```

Regex Path Matching

To match a regex path you can wrap the regex in parentheses after a parameter, for example `/post/:slug(\\d{1,})` will match `/post/123` but not `/post/abc`:

JS next.config.js



```
1 module.exports = {
2   async redirects() {
3     return [
4       {
5         source: '/post/:slug(\\d{1,})',
6         destination: '/news/:slug', // Matched parameters can be used in the destination
7         permanent: false,
8       },
9     ];
10  },
11  };
```

The following characters `(,), {, }, :, *, +, ?` are used for regex path matching, so when used in the `source` as non-special values they must be escaped by adding `\\` before them:

JS next.config.js



```
1 module.exports = {
2   async redirects() {
3     return [
4       {
```

```

5      // this will match `/english(default)/something` being requested
6      source: '/english\\(default\\)/:slug',
7      destination: '/en-us/:slug',
8      permanent: false,
9    },
10  ];
11 },
12 };

```

Header, Cookie, and Query Matching

To only match a redirect when header, cookie, or query values also match the `has` field or don't match the `missing` field can be used. Both the `source` and all `has` items must match and all `missing` items must not match for the redirect to be applied.

`has` and `missing` items can have the following fields:

- `type: String` - must be either `header`, `cookie`, `host`, or `query`.
- `key: String` - the key from the selected type to match against.
- `value: String` or `undefined` - the value to check for, if undefined any value will match. A regex like string can be used to capture a specific part of the value, e.g. if the value `first-(?<paramName>.*)` is used for `first-second` then `second` will be usable in the destination with `:paramName`.

JS next.config.js



```

1  module.exports = {
2    async redirects() {
3      return [
4        // if the header `x-redirect-me` is present,
5        // this redirect will be applied
6        {
7          source: '/:path((?!another-page$).*)',
8          has: [
9            {
10             type: 'header',
11             key: 'x-redirect-me',
12           },
13         ],
14         permanent: false,
15         destination: '/another-page',
16       },
17       // if the header `x-dont-redirect` is present,
18       // this redirect will NOT be applied
19       {
20         source: '/:path((?!another-page$).*)',

```

```
21     missing: [
22         {
23             type: 'header',
24             key: 'x-do-not-redirect',
25         },
26     ],
27     permanent: false,
28     destination: '/another-page',
29 },
30 // if the source, query, and cookie are matched,
31 // this redirect will be applied
32 {
33     source: '/specific/:path*',
34     has: [
35         {
36             type: 'query',
37             key: 'page',
38             // the page value will not be available in the
39             // destination since value is provided and doesn't
40             // use a named capture group e.g. (?<page>home)
41             value: 'home',
42         },
43         {
44             type: 'cookie',
45             key: 'authorized',
46             value: 'true',
47         },
48     ],
49     permanent: false,
50     destination: '/another/:path*',
51 },
52 // if the header `x-authorized` is present and
53 // contains a matching value, this redirect will be applied
54 {
55     source: '/',
56     has: [
57         {
58             type: 'header',
59             key: 'x-authorized',
60             value: '(?<authorized>yes|true)',
61         },
62     ],
63     permanent: false,
64     destination: '/home?authorized=:authorized',
65 },
66 // if the host is `example.com`,
67 // this redirect will be applied
68 {
69     source: '/:path((?!another-page$).*)',
70     has: [
71         {
72             type: 'host',
73             value: 'example.com',
74         },
75     ],
76     permanent: false,
```

```
77     destination: '/another-page',
78   },
79 ];
80 },
81 };
```

Redirects with basePath support

When leveraging `basePath` support with redirects each `source` and `destination` is automatically prefixed with the `basePath` unless you add `basePath: false` to the redirect:

JS next.config.js

```
1  module.exports = {
2    basePath: '/docs',
3
4    async redirects() {
5      return [
6        {
7          source: '/with-basePath', // automatically becomes /docs/with-basePath
8          destination: '/another', // automatically becomes /docs/another
9          permanent: false,
10         },
11         {
12           // does not add /docs since basePath: false is set
13           source: '/without-basePath',
14           destination: 'https://example.com',
15           basePath: false,
16           permanent: false,
17         },
18       ];
19     },
20   };
```

Redirects with i18n support

When leveraging `i18n` support with redirects each `source` and `destination` is automatically prefixed to handle the configured `locales` unless you add `locale: false` to the redirect. If `locale: false` is used you must prefix the `source` and `destination` with a locale for it to be matched correctly.

JS next.config.js

```
1  module.exports = {
2    i18n: {
3      locales: ['en', 'fr', 'de'],
4      defaultLocale: 'en',
5    },
6  };
```

```

7  async redirects() {
8      return [
9          {
10             source: '/with-locale', // automatically handles all locales
11             destination: '/another', // automatically passes the locale on
12             permanent: false,
13         },
14         {
15             // does not handle locales automatically since locale: false is set
16             source: '/nl/with-locale-manual',
17             destination: '/nl/another',
18             locale: false,
19             permanent: false,
20         },
21         {
22             // this matches '/' since `en` is the defaultLocale
23             source: '/en',
24             destination: '/en/another',
25             locale: false,
26             permanent: false,
27         },
28         // it's possible to match all locales even when locale: false is set
29         {
30             source: '/:locale/page',
31             destination: '/en/newpage',
32             permanent: false,
33             locale: false,
34         },
35         {
36             // this gets converted to /(en|fr|de)/(.*) so will not match the top-level
37             // `/' or `/fr` routes like /:path* would
38             source: '/(.*)',
39             destination: '/another',
40             permanent: false,
41         },
42     ]
43 },
44 }

```

In some rare cases, you might need to assign a custom status code for older HTTP Clients to properly redirect. In these cases, you can use the `statusCode` property instead of the `permanent` property, but not both. To ensure IE11 compatibility, a `Refresh` header is automatically added for the 308 status code.

Other Redirects

- Inside [API Routes](#), you can use `res.redirect()`.
- Inside `getStaticProps` and `getServerSideProps`, you can redirect specific pages at request-time.

Version History

Version	Changes
v13.3.0	missing added.
v10.2.0	has added.
v9.5.0	redirects added.