

readme.md for @serve.zone/npmcdn

@serve.zone/opencdn

“☐ A blazing-fast CDN that serves files directly from npm packages

@serve.zone/opencdn is a lightweight, TypeScript-powered CDN server that allows you to serve specific files from npm packages. Think of it as your own private unpkg/jsdelivr, but with fine-grained control over which packages are accessible.

Issue Reporting and Security

For reporting bugs, issues, or security vulnerabilities, please visit community.foss.global/. This is the central community hub for all issue reporting. Developers who sign and comply with our contribution agreement and go through identification can also get a code.foss.global/ account to submit Pull Requests directly.

☐ Features

- ☐ **Package Allowlisting** - Only serve files from packages you explicitly approve
- ☐ **Version Support** - Request specific versions, version ranges, or dist-tags
- < **Smart Caching** - Built-in cache headers for optimal performance
- ☐ **Compression** - Automatic gzip compression for smaller payloads
- ☐ **Peek Mode** - Dev mode includes a UI to browse available packages and files
- ☐ **MIME Type Detection** - Automatic content-type detection for served files
- ☐ **CORS Ready** - Cross-origin requests supported out of the box

☐ Installation

```
pnpm add @serve.zone/opencdn
```

☐ Quick Start

```
import { UiPublicServer } from '@serve.zone/opencdn';

const server = new UiPublicServer({
  port: 3000,
  npmRegistryUrl: 'https://registry.npmjs.org/',
  allowedPackages: [
    '@push.rocks/smartfile',
    '@push.rocks/smartpromise',
    // Add more packages as needed
  ],
  packageBaseDirectory: './', // Path within packages to serve from
  mode: 'dev', // 'dev' or 'prod'
});

await server.startServer();
```

☐ API Endpoints

Once running, access files using this URL pattern:

```
http://localhost:3000/@scope/package-name/path/to/file.js?version=1.2.3
```

Query Parameters

| Parameter | Description | Example |
|----------------------|-------------------------|---|
| <code>version</code> | Semver version or range | <code>1.2.3</code> , <code>^1.0.0</code> , <code>2.x.x</code> |
| <code>disttag</code> | Dist tag name | <code>latest</code> , <code>beta</code> , <code>next</code> |

Examples

```
# Get the readme from latest version
curl http://localhost:3000/@push.rocks/smartfile/readme.md

# Get package.json from specific version
curl http://localhost:3000/@push.rocks/smartfile/package.json?version=10.0.0

# Get a file using version range
curl http://localhost:3000/@push.rocks/smartfile/dist_ts/index.js?version=11.x.x
```

Configuration Options

```
interface IPublicServerOptions {
  port?: number;           // Server port (default: 8080)
  npmRegistryUrl?: string; // npm registry URL (default: https://registry.npmjs.org)
  allowedPackages?: string[]; // Array of allowed package names
  packageBaseDirectory?: string; // Base path within packages (default: './')
  mode: 'dev' | 'prod';     // Server mode
  log?: boolean;           // Enable request logging (default: true)
}
```

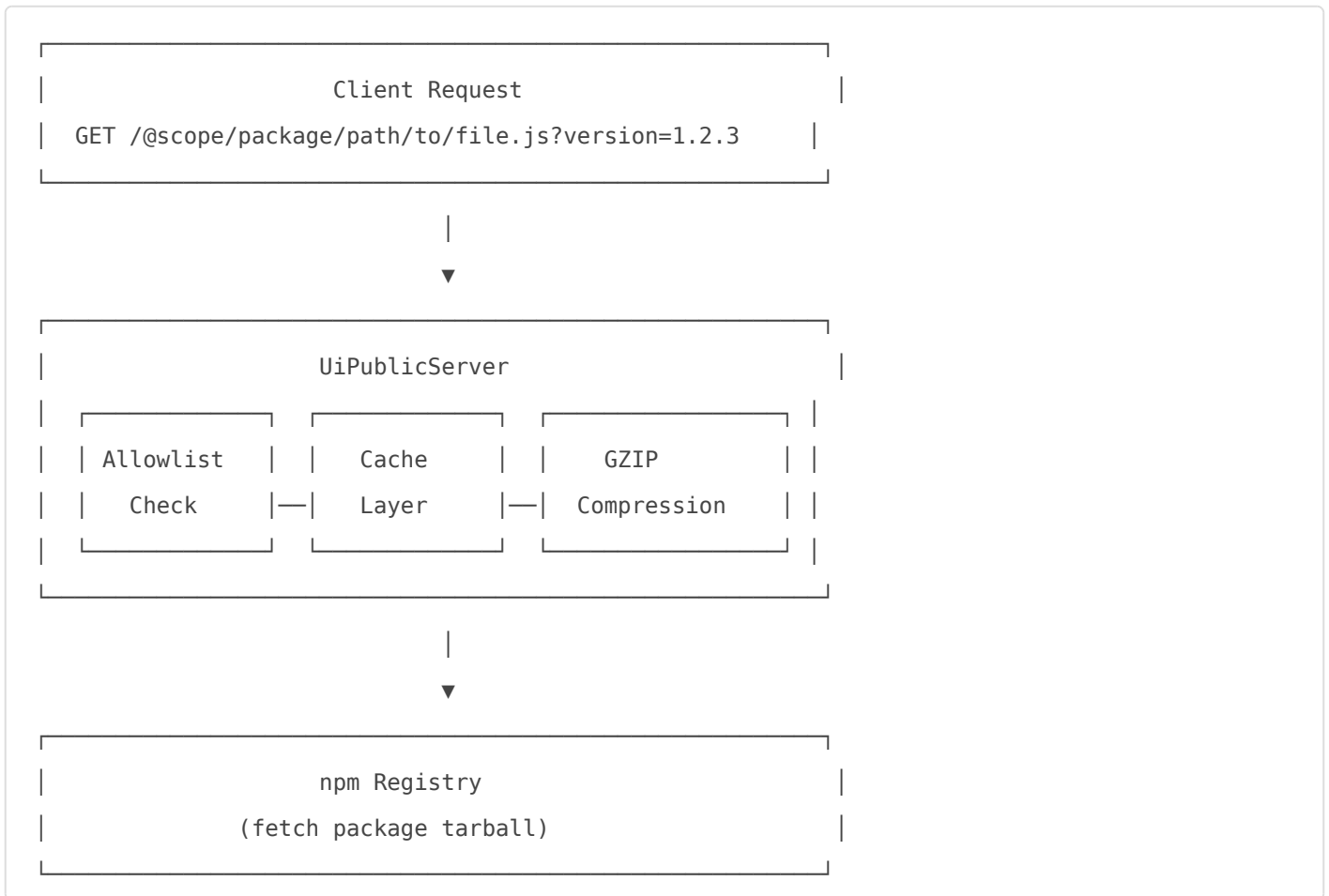
Dev Mode Features

When running in `dev` mode, you get access to additional endpoints:

- `/peek/` - Browse all allowlisted packages and their files
- `/readme/` - View the server's readme as HTML

These endpoints help you explore what's available without needing to know exact file paths.

Architecture



☐ Security

- **Allowlisting** - Only explicitly allowed packages can be served
- **Path Validation** - Requests are validated against the allowed package base directory
- **No Arbitrary Execution** - The server only serves static files, no code execution

☐ Use Cases

- **Microservices** - Serve shared frontend assets across multiple services
- **Internal CDN** - Host internal packages for your organization
- **Development** - Quick access to npm package files during development
- **Documentation** - Serve package documentation directly

☐ Response Headers

The server sets appropriate headers for caching and content delivery:

| Header | Value |
|-----------------------------|--------------------------------------|
| content-type | Detected MIME type |
| content-length | File size in bytes |
| cache-control | max-age based on version specificity |
| access-control-allow-origin | * (configurable) |

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