

Build & Deployment

Build Configuration

Angular build configuration in `angular.json`:

Project Name: `project` (generic name) **Output Directory:** `dist/agent` **Source Root:** `src`

Build Commands

Development Build

```
npm run build-dev  
# Creates development build with source maps  
# Output: dist/agent/
```

Production Build

```
npm run build  
# Optimized production build  
# Features:  
# - Minification  
# - Tree shaking  
# - AOT compilation  
# - Output hashing (cache busting)  
# Output: dist/agent/
```

Build Optimization

Production Optimizations:

- Ahead-of-Time (AOT) compilation
- Bundle minification
- Dead code elimination (tree shaking)
- Output hashing for cache busting (`--output-hashing=all`)

- Lazy loading for smaller initial bundle

Deployment Steps

1. Build the application

```
npm run build
```

2. Deploy `dist/agent/` directory to web server

- Configure web server for single-page application
- Redirect all routes to `index.html`

3. Configure API endpoints

- Update `src/app/addressz.ts` before building
- Set production API URLs

4. Environment Configuration

- Production: `src/environments/environment.prod.ts`
- Development: `src/environments/environment.ts`

Web Server Configuration

Nginx Example:

```
server {  
    listen 80;  
    server_name yourdomain.com;  
    root /path/to/dist/agent;  
    index index.html;  
  
    location / {  
        try_files $uri $uri/ /index.html;  
    }  
}
```

Apache Example:

```
<IfModule mod_rewrite.c>  
    RewriteEngine On  
    RewriteBase /  
    RewriteRule ^index\.html$ - [L]  
    RewriteCond %{REQUEST_FILENAME} !-f
```

```
RewriteCond %{REQUEST_FILENAME} !-d
RewriteRule . /index.html [L]
</IfModule>
```

Performance Considerations

1. **Lazy Loading** - Feature modules loaded on demand
 2. **Code Splitting** - Separate bundles for vendor and app code
 3. **Output Hashing** - Cache busting for updated files
 4. **Compression** - Enable gzip/brotli on web server
 5. **CDN** - Serve static assets from CDN
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Revision #1

Created 24 February 2026 07:15:21 by ondelivelooper

Updated 24 February 2026 07:15:40 by ondelivelooper