NPM Scoped Package Publishing Guide

This document outlines the steps to publish a scoped package to NPM with 2FA and granular tokens.

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1. Generate a New Token

1. Go to https://www.npmjs.com/settings/tokens
2. Click **Generate New Token → Automation**
3. Check **Bypass 2FA**
4. Select **Read & Publish** permissions
5. Copy the token immediately (it will not be shown again)

Note: Tokens expire in 90 days by default. Track expiration.

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2. Configure NPM to Use the Token

Option 1: Project `.npmrc`

Add this line in your project folder `.npmrc` :

```
//registry.npmjs.org/:_authToken=<YOUR_TOKEN>
```

Option 2: Using npm command

```
npm config set //registry.npmjs.org/:_authToken=<YOUR_TOKEN>
```

Verify token works:

```
npm whoami
```

Expected output: your npm username

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3. Prepare `package.json`

Ensure correct fields:

```
{
  "name": "@<your_org>/<package_name>", // scope must match NPM org
  "version": "0.0.x",
  "publishConfig": {
```

```
    "access": "public"
  },
  "repository": {
    "type": "git",
    "url": "git+https://github.com/<username>/<repo>.git"
  }
}
```

Tips: - Scope must match your NPM organization exactly. - Increment version number for each new publish.

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4. Dry Run Publish

Test before actual publish:

```
npm publish --dry-run
```

- Confirms files included - Confirms version & scope

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5. Publish Package

```
npm publish --access public
```

- If scoped, `--access public` is required - Uses the token for authentication, bypassing 2FA prompts

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6. Next-Time Checklist

1. Verify `.npmrc` has valid token
2. Verify account 2FA settings
3. Verify `package.json` scope & version
4. Run `npm whoami` to confirm authentication
5. Dry-run publish with `npm publish --dry-run`
6. Publish with `npm publish --access public`
7. Track token expiry and renew before 90 days

This document should be updated each time the token is renewed or the package scope changes.