

# Security Configuration and Required Secrets

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This document outlines the required secrets and security configuration for the Audityzer GitHub Actions workflows.

## Required Secrets

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### Core Secrets (Required)

These secrets are automatically provided by GitHub or must be configured in repository settings:

1. **GITHUB\_TOKEN** (Automatic)
  - Automatically provided by GitHub Actions
  - Used for: Creating releases, uploading artifacts, GitHub Pages deployment
  - Permissions: `contents: write` , `pages: write` , `security-events: write`

### Optional Secrets (For Enhanced Functionality)

1. **NPM\_TOKEN** (Optional - for NPM publishing)
  - Purpose: Publishing packages to NPM registry
  - How to get: Create token at <https://www.npmjs.com/settings/tokens>
  - Required scopes: `Automation` or `Publish`
  - Add to: Repository Settings > Secrets and variables > Actions
2. **SNYK\_TOKEN** (Optional - for enhanced security scanning)
  - Purpose: Advanced vulnerability scanning with Snyk
  - How to get: Sign up at <https://snyk.io> and get API token
  - Add to: Repository Settings > Secrets and variables > Actions
3. **SEMGREP\_APP\_TOKEN** (Optional - for SAST scanning)
  - Purpose: Static Application Security Testing with Semgrep
  - How to get: Sign up at <https://semgrep.dev> and get app token
  - Add to: Repository Settings > Secrets and variables > Actions
4. **CODECOV\_TOKEN** (Optional - for coverage reporting)
  - Purpose: Upload test coverage reports to Codecov
  - How to get: Connect repository at <https://codecov.io>
  - Add to: Repository Settings > Secrets and variables > Actions

## How to Add Secrets

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1. Go to your repository on GitHub
2. Click on **Settings** tab
3. In the left sidebar, click **Secrets and variables > Actions**
4. Click **New repository secret**
5. Enter the secret name and value
6. Click **Add secret**

## Environment Configuration

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### GitHub Pages Setup

1. Go to repository **Settings** > **Pages**
2. Set source to **GitHub Actions**
3. The workflows will automatically deploy to:
  - Production: `https://yourusername.github.io/audityzer`
  - Staging: `https://yourusername.github.io/audityzer/staging`

### Branch Protection (Recommended)

1. Go to **Settings** > **Branches**
2. Add rule for `main` branch:
  - Require pull request reviews
  - Require status checks to pass
  - Include administrators

## Security Best Practices

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### Workflow Permissions

Our workflows use minimal required permissions:

- `contents: read/write` - For checking out code and creating releases
- `security-events: write` - For uploading security scan results
- `pages: write` - For GitHub Pages deployment
- `packages: write` - For publishing packages

### Secret Management

- Never commit secrets to the repository
- Use environment-specific secrets when possible
- Regularly rotate API tokens
- Monitor secret usage in workflow logs

### Dependency Security

- Dependabot is enabled for automatic dependency updates
- Security scanning runs on every push and PR
- Weekly scheduled security scans

## Troubleshooting

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### Common Issues

1. **Workflow fails with “startup\_failure”**
  - Check YAML syntax in workflow files
  - Verify all required secrets are configured
  - Check repository permissions
2. **NPM publishing fails**
  - Verify `NPM_TOKEN` is valid and has publish permissions
  - Check `package.json` version is not already published

### 3. Security scans fail

- SNYK\_TOKEN and SEMGREP\_APP\_TOKEN are optional
- Workflows will continue without these tokens (with warnings)

### 4. GitHub Pages deployment fails

- Ensure Pages is enabled in repository settings
- Check GITHUB\_TOKEN has sufficient permissions

## Getting Help

- Check workflow logs in the Actions tab
- Review GitHub Actions documentation
- Check individual action documentation for specific issues

## Workflow Status

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### Current Workflows

- **CI/CD Pipeline** ( `ci-cd-clean.yml` ) - Build, test, and deploy
- **Security Scanning** ( `security-clean.yml` ) - CodeQL, dependency scan, SAST
- **Automated Release** ( `release-clean.yml` ) - Semantic versioning and releases

## Monitoring

Monitor workflow status at: <https://github.com/yourusername/audityzer/actions>

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