Automating dependency management with Renovate in Azure DevOps

# Introduction

*Mend Renovate products help developers automate dependency updates by detecting newer package versions and providing updates directly to the application code.*

https://www.mend.io/renovate/

| | Mend Renovate CLI | Mend Renovate Community | | Mend Renovate Enterprise | |
|---|---|---|---|---|---|
| | **Open source project** | **Learn more** | | **Learn more** | |
| Deployment type | Self-hosted | Cloud | Self-hosted | **Coming Soon:** Cloud | Self-hosted |
| Documentation | Renovate docs | Renovate docs | GitHub | GitHub | GitHub |
| Cost | Free | Free | Free | Paid | Paid |

# Why?

# Why?

- Reduce technical dept
  - update in small steps
  - can introduce automation
- Improve security
  - direct dependency

# Key parts

# Platforms

*Renovate aims to be platform-neutral, while also taking advantage of good platform-specific features.*

https://docs.renovatebot.com/modules/platform/

1. detect packages: managers
2. get package info: data sources
3. check newer: versioning

- azure
- bitbucket
- codecommit
- gerrit
- gitea
- github
- gitlab
- local

# Managers

*Renovate is based around the concept of "package managers", or "managers" for short. These range from traditional package managers like npm, Bundler and Composer through to less traditional concepts like CircleCI or Travis config files.*

*The goal of Renovate is to detect and maintain all third-party dependencies in your repositories, through the use of managers.*

https://docs.renovatebot.com/modules/manager/

- cake
- nuget
- azure-pipelines
- docker-compose
- dockerfile
- bicep
- terraform
- npm/ nvm
- custom/ regex
- etc.

# Data sources

*After Renovates manager scanned the files and extracted the dependencies, it assigns a data source to each extracted package file or dependency. The data source tells Renovate how to search for new versions.*

https://docs.renovatebot.com/modules/datasource/

- azure-bicep-resource
- azure-pipelines-tasks
- docker
- dotnet-version
- nuget

- node-version
- npm
- terraform-module
- terraform-provider
- etc.

# Versioning

*Once Managers have extracted dependencies, and data sources have located available versions, then Renovate will use a "Versioning" scheme to perform sorting and filtering of results.*

*The "versioning" is different for each package manager, because different package managers use different versioning schemes. For example, npm uses 1.0.0-beta.1 while pip uses 1.0.0b1.*
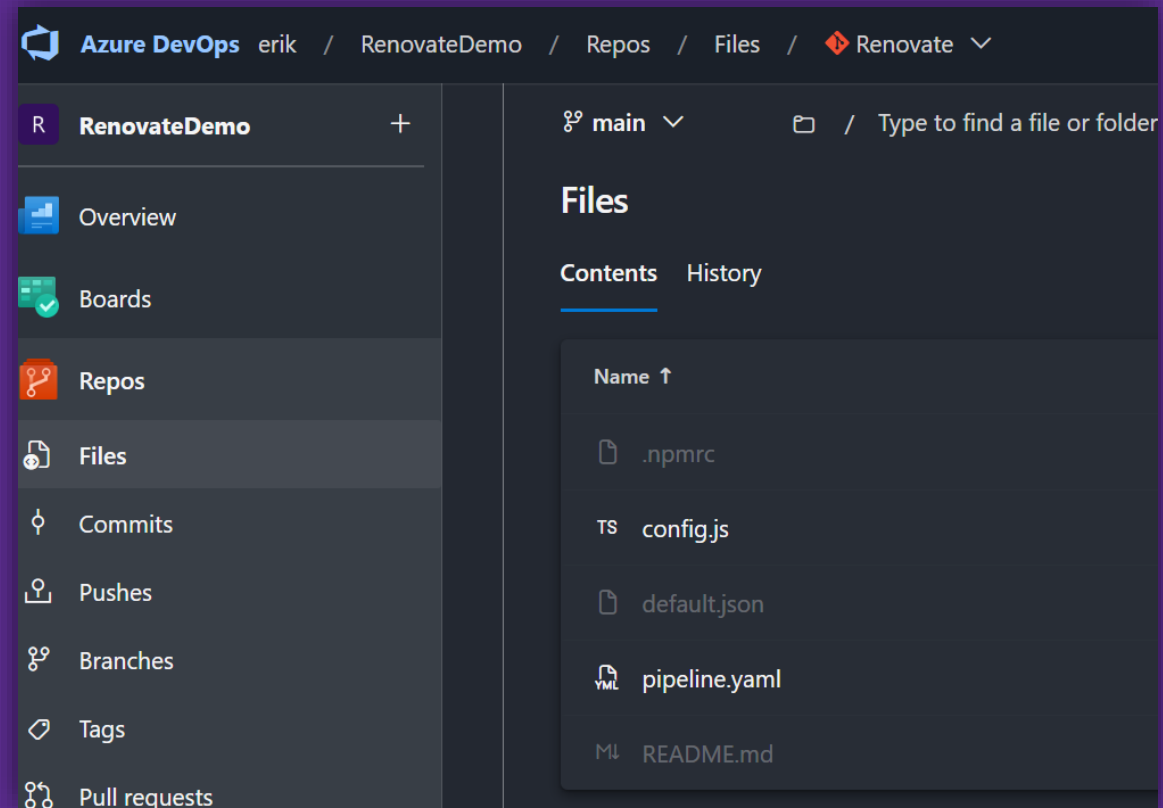
https://docs.renovatebot.com/modules/versioning/

- azure-rest-api
- docker
- npm
- nuget
- custom/ regex
- etc.

# Setup

# Setup in Azure Devops

- Create repository
- Create & setup pipeline
- Create first config

New pipeline

**Review your pipeline YAML**

Variables      Run ∨

◈ Renovate / **pipeline.yaml** ⧉                                    ⊞ Show assistant

```yaml
 1  schedules:
 2    - cron: '0 4 * * 1-5'
 3      displayName: 'Every day at 4am (UTC) on workdays ma-fr'
 4      branches:
 5        include: [main]
 6      always: true
 7
 8  trigger: none
 9
10  parameters:
11  - name: logLevel
12    displayName: "The loglevel to use for renovate"
13    type: string
14    default: 'info'
15    values:
16      - info
17      - debug
18
19  variables:
20    logLevel: ${{ parameters.logLevel }}
21    renovateToken: $(System.AccessToken)
22
23  pool:
24    vmImage: ubuntu-latest
25
26  steps:
27    - checkout: self
28      fetchDepth: 1
29      clean: true
              Settings
30    - task: npmAuthenticate@0
31      inputs:
32        workingFile: .npmrc
33    - bash: |
34        git config --global user.email 'bot@renovateapp.com'
35        git config --global user.name 'Renovate Bot'
36        npx --userconfig .npmrc renovate
37      env:
38        RENOVATE_PLATFORM: "azure"
39        RENOVATE_ENDPOINT: $(System.CollectionUri)
40        TOKEN: $(renovateToken)
41        RENOVATE_TOKEN: $(renovateToken)
42        GITHUB_TOKEN: $(githubToken)
43        LOG_LEVEL: $(logLevel)
```

← **New variable**

Name

```
githubToken
```

Value

```
••••••••••••••••••••••••••••••••••••••••••••••••••••••
```

☑ Keep this value secret

☐ Let users override this value when running this pipeline

**To reference a variable in YAML**, prefix it with a dollar sign and enclose it in parentheses. For example: `$(githubToken)`

```js
config.js

module.exports = {
  platform: "azure",
  endpoint: process.env.RENOVATE_ENDPOINT,
  onboarding: true,
  onboardingConfig: {
    extends: ["config:best-practices"],
    azureWorkItemId: 419
  },
  requireConfig: false,
  autodiscover: true,
  autodiscoverFilter: [
    "RenovateDemo/*"
  ],
  token: process.env.RENOVATE_TOKEN,
  extends: [
    "config:best-practices"
  ],
  hostRules: [
    {
      hostType: "github",
      domainName: "api.github.com",
      token: process.env.GITHUB_TOKEN
    },
    {
      hostType: "azure",
      domainName: "dev.azure.com",
      token: process.env.RENOVATE_TOKEN,
    },
    {
      matchHost: "pkgs.dev.azure.com",
      token: process.env.RENOVATE_TOKEN,
    }
  ],
  timezone: "Europe/Amsterdam",
```

```js
  timezone: "Europe/Amsterdam",
  packageRules:[
    {
      "groupName": "Azure SDK Libraries",
      "matchPackagePatterns": ["^Azure\\.", "^Microsoft\\.Azure\\."]
    },
    {
      "groupName": ".NET Core Libraries",
      "matchPackagePatterns": ["^System\\.", "^Microsoft\\.Extensions\\."]
    },
    {
      "groupName": "Testing Libraries",
      "matchPackagePatterns": ["xunit", "FluentAssertions"]
    },
    {
      "groupName": "Azure Functions Libraries",
      "matchPackagePatterns": [
        "Microsoft.Azure.WebJobs",
        "Microsoft.NET.Sdk.Functions",
        "Microsoft.Azure.Functions.Worker.Extensions"
      ]
    },
    {
      "matchPackageNames": ["Microsoft.Resources", "Microsoft.Storage"],
      "allowedVersions": ">=2022-01-01"
    }
  ]
};
```

# Repo onboarding

config.js

```js
module.exports = {
  platform: "azure",
  endpoint: process.env.RENOVATE_ENDPOINT,
  onboarding: true,
  onboardingConfig: {
    extends: ["config:best-practices"],
    azureWorkItemId: 419
  },
  requireConfig: false,
  autodiscover: true,
  autodiscoverFilter: [
    "RenovateDemo/*"
  ],
```

config.js

```js
module.exports = {
  platform: "azure",
  endpoint: process.env.RENOVATE_ENDPOINT,
  onboarding: true,
  onboardingConfig: {
    extends: ["config:best-practices"],
    azureWorkItemId: 419
  },
  requireConfig: false,
  repositories: [
    'RenovateDemo/projectA',
    'RenovateDemo/projectB',
  ]
```

# chore: Configure Renovate

Overview    Files    Updates    Commits

✓ **No merge conflicts**
Last checked Just now

## Description

Welcome to Renovate ⬀! This is an onboarding PR to help you understand and configure settings before regular Pull Requests begin.

⋮ Renovate will begin keeping your dependencies up-to-date only once you merge or close this Pull Request.

### Detected Package Files

- `global.json` (nuget)

### Configuration Summary

Based on the default config's presets, Renovate will:

- Start dependency updates only once this onboarding PR is merged
- Enable Renovate Dependency Dashboard creation.
- Use semantic commit type `fix` for dependencies and `chore` for all others if semantic commits are in use.
- Ignore `node_modules`, `bower_components`, `vendor` and various test/tests directories.
- Group known monorepo packages together.
- Use curated list of recommended non-monorepo package groupings.
- Apply crowd-sourced package replacement rules.

## What to Expect

With your current configuration, Renovate will create 2 Pull Requests:

▶ chore(deps): update dependency dotnet-sdk to v8.0.404
▶ chore(deps): update dependency dotnet-sdk to v9

❓ Got questions? Check out Renovate's Docs ⬀, particularly the Getting Started section.
If you need any further assistance then you can also request help here ⬀.

This PR has been generated by Renovate Bot ⬀.

# chore(deps): update dependency system.text.json to v6.0.11

Active · !147 · Erik Lieben proposes to merge renovate/dotnet-monorepo into main

Overview · Files · Updates · Commits

✓ **No merge conflicts**
Last checked 3h ago

## Description

This PR contains the following updates:

| Package | Type | Update | Change |
|---|---|---|---|
| System.Text.Json (source) | nuget | patch | `6.0.6` -> `6.0.11` |

## Release Notes

▶ dotnet/runtime (System.Text.Json)

## Configuration

📅 **Schedule**: Branch creation - At any time (no schedule defined), Automerge - At any time (no schedule defined).

⚙ **Automerge**: Disabled by config. Please merge this manually once you are satisfied.

♻ **Rebasing**: Whenever PR becomes conflicted, or rename PR to start with "rebase!".

🔕 **Ignore**: Close this PR and you won't be reminded about this update again.

This PR has been generated by Renovate Bot.

---

**ClassLibraryNET8.csproj** -1+1
/ClassLibraryNET8/ClassLibraryNET8.csproj

```
 7        </PropertyGroup>                                              7        </PropertyGroup>
 8                                                                      8
 9            <ItemGroup>                                               9            <ItemGroup>
10 -            <PackageReference Include="System.Text.Json" Version="6.0.6" />    10 +            <PackageReference Include="System.Text.Json" Version="6.0.11" />
11            </ItemGroup>                                             11            </ItemGroup>
12                                                                     12
13        </Project>                                                   13        </Project>
```

**R** RenovateDemo   +

Overview

Boards

Repos

Files

Commits

Pushes

Branches

Tags

Pull requests

Advanced Security

Pipelines

Test Plans

Artifacts

# chore(deps): update dependency system.text.json to 6.0.11

Abandoned  !132  👤 Erik Lieben proposes to merge renovate/dotnet-monorepo into main  0/1 comments resolved

Overview   Files   Updates   Commits

🗑 The pull request was abandoned 2h ago

## Description

This PR contains the following updates:

| Package | Type | Update | Change |
|---|---|---|---|
| System.Text.Json ⬈ (source ⬈) | nuget | patch | `6.0.6 -> 6.0.11` |

### Release Notes

▸ dotnet/runtime (System.Text.Json)

### Configuration

📅 **Schedule**: Branch creation - "before 09:00,after 22:00" in timezone Europe/Amsterdam, Automerge - At any time (no schedule defined).

⋮ **Automerge**: Disabled by config. Please merge this manually once you are satisfied.

♻ **Rebasing**: Whenever PR becomes conflicted, or PR is renamed to start with "rebase!".

🔔 **Ignore**: Close this PR and you won't be reminded about this update again.

This PR has been generated by Renovate Bot ⬈.

💬  [Add a comment...]

👤 **Erik Lieben**  2h ago

**Renovate Ignore Notification**

Because you closed this PR without merging, Renovate will ignore this update (`6.0.11`). You will get a PR once a newer version is released. To ignore this dependency forever, add it to the `ignoreDeps` array of your Renovate config.

If you accidentally closed this PR, or if you changed your mind: rename this PR to get a fresh replacement PR.

# Configuration

```
        config.js


repo/renovate.json ────→ renovate:best-practices
```

Renovate repo

config.js

dotnet8.json

dotnet 8

dotnet9.json

dotnet 9

dotnet48.json

.NET 4.8

repo/renovate.json

repo/renovate.json

repo/renovate.json

repo/renovate.json

```json
{
    "$schema": "https://docs.renovatebot.com/renovate-schema.json",
    "extends":
    [
        "local>RenovateDemo/Renovate/dotnet9"
    ]
}
```

```json
{
    "$schema": "https://docs.renovatebot.com/renovate-schema.json",
    "extends":
    [
        "local>RenovateDemo/Renovate/dotnet8"
    ]
}
```

```
packageRules:[
  {
    "groupName": "Azure SDK Libraries",
    "matchPackagePatterns": [
      "^Azure\\.",
      "^Microsoft\\.Azure\\."
    ],
    "semanticCommitType": "fix",
    "allowedVersion": "<=9.0"
  },
  {
    "groupName": "Unit testing",
    "matchPackagePatterns": [
      "^XUnit",
    ],
    "autoApprove": true,
    "autoMerge": true,
    "autoMergeStrategy": "squash",
    "semanticCommitType": "chore"
  },
]
```

# Test/debug

`npx renovate-config-validator`

```
··· npx renovate-config-validator
WARN: config.js needs migrating
      "originalConfig": {
        "platform": "azure",
        "endpoint": "https://dev.azure.com/erik/",
        "onboarding": true,
        "onboardingConfig": {
          "extends": ["config:best-practices"],
          "azureWorkItemId": 419
        },
        "requireConfig": false,
        "autodiscover": true,
```

```
        "matchPackageNames": ["Microsoft.Resources", "Microsoft.Storage"],
        "allowedVersions": "≥2022-01-01"
      }
    ]
  }
INFO: Validating config.js
INFO: Config validated successfully

↱  ▭ Repository:\RenovateDemo\Renovate  ←  ⑂main ≡ ☑ ?1    ▤ 2.26s   ⚠ General   ⬡ 22.11.0
⋯
```

npx renovate -dry-run

```
··· npx renovate --dry-run
WARN: config.js needs migrating
     "originalConfig": {
       "platform": "azure",
       "endpoint": "https://dev.azure.com/erik/",
       "onboarding": true,
       "onboardingConfig": {
         "extends": ["config:best-practices"],
         "azureWorkItemId": 419
       },
       "requireConfig": false,
       "autodiscover": true,
       "autodiscoverFilter": ["RenovateDemo/*"],
       "token": "**********",
       "extends": ["config:best-practices"],
       "hostRules": [
         {
           "hostType": "github",
           "domainName": "api.git
           "token": "**********"
         },
         {
           "hostType": "azure",
           "domainName": "dev.azu
           "token": "**********"
         },
         {"matchHost": "pkgs.dev.
```

```
INFO: Repository started (repository=RenovateDemo/dotnetRepoGlobal)
      "renovateVersion": "39.19.1"
INFO: Dependency extraction complete (repository=RenovateDemo/dotnetRepoGlobal, baseBranch=main)
      "stats": {
        "managers": {"nuget": {"fileCount": 2, "depCount": 2}},
        "total": {"fileCount": 2, "depCount": 2}
      }
INFO: DRY-RUN: Would update PR #158 (repository=RenovateDemo/dotnetRepoGlobal, branch=renovate/dotnet-monorep
o)
INFO: DRY-RUN: Would update PR #159 (repository=RenovateDemo/dotnetRepoGlobal, branch=renovate/major-dotnet-m
onorepo)
INFO: DRY-RUN: Would update PR #160 (repository=RenovateDemo/dotnetRepoGlobal, branch=renovate/dotnetsay-2.x)
INFO: DRY-RUN: Would ensure Dependency Dashboard (repository=RenovateDemo/dotnetRepoGlobal)
      "title": "Dependency Dashboard"
INFO: DRY-RUN: Would save repository cache. (repository=RenovateDemo/dotnetRepoGlobal)
INFO: Repository finished (repository=RenovateDemo/dotnetRepoGlobal)
      "cloned": true,
      "durationMs": 23040
```

# Use cases

for dotnet development

NuGet.config

```xml
<?xml version="1.0" encoding="utf-8"?>
<configuration>

  <config>
    <add key="globalPackagesFolder" value=".nuget-packages" />
  </config>


  <packageSources>
    <clear />
    <add key="nuget.org" value="https://api.nuget.org/v3/index.json" protocolVersion="3" />
    <add key="private" value="https://pkgs.dev.azure.com/erik/..../nuget/v3/index.json" />
  </packageSources>


  <packageSourceMapping>
    <packageSource key="nuget.org">
      <package pattern="*" />
    </packageSource>
    <packageSource key="private">
      <package pattern="mypackages.*" />
    </packageSource>
  </packageSourceMapping>

</configuration>
```

*.csproj

```xml
<PropertyGroup>
    <RestorePackagesWithLockFile>true</RestorePackagesWithLockFile>
</PropertyGroup>
```

```
packageRules:[
  {
    "groupName": ".NET Core Libraries",
    "matchPackagePatterns": ["^System\\.", "^Microsoft\\.Extensions\\."]
  },
  {
    "groupName": "Testing Libraries",
    "matchPackagePatterns": ["xunit", "FluentAssertions"]
  }
]
```

```
packageRules:[
  {
    "groupName": "Azure SDK Libraries",
    "matchPackagePatterns": ["^Azure\\.", "^Microsoft\\.Azure\\."]
  },
]
```

# .NET SDK

global.json

```json
{
    "sdk": {
        "version": "8.0.307",
        "rollForward": "disabled",
        "allowPrerelease": false
    }
}
```

*The roll-forward policy to use when selecting an SDK version, either as a fallback when a specific SDK version is missing or as a directive to use a later version.*

global.json overview - .NET CLI | Microsoft Learn

# RenovateDemo

- Overview
- Boards
- Repos
- Files
- Commits
- Pushes
- Branches
- Tags
- **Pull requests**
- Advanced Security
- Pipelines
- Test Plans
- Artifacts

## chore(deps): update dependency dotnet-sdk to v8.0.404

Approve ⌄        ⑂ Complete ⌄        ⋯

**Active**   !158   ⊘   Project Collection Build Service (erik) proposes to merge renovate/dotnet-monorepo into main

**Overview**   Files   Updates   Commits

✓ No merge conflicts
Last checked Just now

### Description ✎

This PR contains the following updates:

| Package | Type | Update | Change |
|---|---|---|---|
| dotnet-sdk ⧉ | dotnet-sdk | patch | `8.0.307` -> `8.0.404` |

### Release Notes

▼ dotnet/sdk (dotnet-sdk)

`v8.0.404` ⧉: .NET 8.0.11

Compare Source ⧉

Release ⧉

### What's Changed

- [release/6.0.4xx] Update dependencies from dotnet/format by @dotnet-maestro ⧉ in https://github.com
- [release/6.0.4xx] Update depen... maestro ⧉ in https://github.co...
- [release/6.0.1xx] Update depen... maestro ⧉ in https://github.co...
- [automated] Merge branch 'rele... actions ⧉ in https://github.com
- [automated] Merge branch 'rele... actions ⧉ in https://github.com
- [release/8.0.3xx] Update depen... maestro ⧉ in https://github.co...
- [release/8.0.1xx] Update depen... maestro ⧉ in https://github.com/dotnet/sdk/pull/43443 ⧉

### Reviewers                    Add ⌄

**Required**

No required reviewers

**Optional**

No optional reviewers

### Tags                              +

No tags

### Work items                        +

▥ User Story 419: automatic maintenanc...   ✕
Updated Just now,  ● New

```
         global.json  -1  +1
    📄   /global.json

1        {                                    1        {
2            "sdk": {                         2            "sdk": {
3  -          "version": "8.0.307",           3  +          "version": "8.0.404",
4            "rollForward": "latestPatch",    4            "rollForward": "latestPatch",
5            "allowPrerelease": false         5            "allowPrerelease": false
6        }                                    6        }
```

```
cat .\global.json
{

    "sdk": {
        "version": "8.0.404",
        "rollForward": "latestPatch",
        "allowPrerelease": false
    }
}

dotnet --version
The command could not be loaded, possibly because:
  * You intended to execute a .NET application:
      The application '--version' does not exist.
  * You intended to execute a .NET SDK command:
      A compatible .NET SDK was not found.

Requested SDK version: 8.0.404
global.json file: D:\RenovateDemo\dotnetRepoGlobal\global.json

Installed SDKs:
8.0.307 [C:\Program Files\dotnet\sdk]
9.0.101 [C:\Program Files\dotnet\sdk]


Install the [8.0.404] .NET SDK or update [D:\RenovateDemo\dotnetRepoGlobal\global.json] to match an installed SDK.

Learn about SDK resolution:
https://aka.ms/dotnet/sdk-not-found
```

Repository:\RenovateDemo\dotnetRepoGlobal ← ⎇main ≡ ☱ ?6 ~4 ⚠ General ~ 8.0.404

azure-pipeline.yaml

```yaml
steps:
  - checkout: self
    fetchDepth: 1
    clean: true
  - task: UseDotNet@2
    displayName: "Install .NET SDK from global.json"
    inputs:
      packageType: "sdk"
      useGlobalJson: true
```

Visual Studio

Error List

Entire Solution | 🔴 1 Error | ⚠ 0 of 1 Warning | ℹ 0 Messages | Build + IntelliSense | Search Error List

| | Code | Description | Project | File |
|---|---|---|---|---|
| 🔴 | NETSDK1141 | Unable to resolve the .NET SDK version as specified in the global.json located at D:\RenovateDemo\dotnetRepoGlobal\global.json. | dotnetRepoGlobal | Microsoft.NET.Sdk.DefaultItems.targets |

Jetbrains Rider

ℹ .NET SDK 8.0.404 installed successfully

ℹ **Microsoft Defender may affect IDE**
To avoid performance issues, exclude the IDE and the project folders from the...

Exclude folders | More ⌄

.NET SDK 8.0.404 installed success... (moments ago) | Loading projects... | 7:3 | CRLF | UTF-8 | 2 spaces | JSON: global.json | NORMAL

# dotnet (local) tools

```
dotnet new tool-manifest
dotnet tool install dotnetsay --version 2.1.7

dotnet tool run dotnetsay
```

.config\dotnet-tools.json

```json
{
  "version": 1,
  "isRoot": true,
  "tools": {
    "dotnetsay": {
      "version": "2.1.7",
      "commands": [
        "dotnetsay"
      ],
      "rollForward": false
    }
  }
}
```

Search

# chore(deps): update dependency dotnetsay to v2

Approve ⌄    ⑂ Complete ⌄    ⋮

**Active** !160 👤 Project Collection Build Service (erik) proposes to merge renovate/dotnetsay-2.x into main

**Overview**    Files    Updates    Commits

✅ **No merge conflicts**
Last checked 43m ago

## Description ✏️

This PR contains the following updates:

| Package | Type | Update | Change |
|---|---|---|---|
| dotnetsay ⬀ (source ⬀) | nuget | major | `1.0.0` -> `2.1.7` |

### Release Notes

▼ dotnet/core (dotnetsay)

`v2.1.7` ⬀ : .NET Core 2.1.7

- Release Notes ⬀
- Download and Install ⬀

**Repos**

- CoreCLR ⬀
- CoreFX ⬀
- Core-Setup ⬀
- CLI ⬀
- ASP ⬀

`v2.1.6` ⬀ : .NET Core 2.1.6

- Release Notes ⬀
- Download and Install ⬀

### Reviewers    Add ⌄

**Required**

No required reviewers

**Optional**

No optional reviewers

### Tags    ✚

No tags

### Work items    ✚

▦ User Story 419: automatic maintenanc

---

⌄ 📄 **dotnet-tools.json** -1 +1    View
/.config/dotnet-tools.json

```
3        "isRoot": true,                    3        "isRoot": true,
4        "tools": {                         4        "tools": {
5            "dotnetsay": {                 5            "dotnetsay": {
6  -             "version": "1.0.0",        6  +             "version": "2.1.7",
7                "commands": [              7                "commands": [
8                    "dotnetsay"            8                    "dotnetsay"
9                ],                         9                ],
```

```
··· dotnet tool run dotnetsay
Run "dotnet tool restore" to make the "dotnetsay" command available.
```

```
··· dotnet tool restore
Tool 'dotnetsay' (version '2.1.7') was restored. Available commands: dotnetsay

Restore was successful.

 ↱  ▱  Repository:\RenovateDemo\dotnetRepoGlobal ← ⑂main ≡ ☑ ~1   🖩 595ms   🄰 General   ~ 9.0.101
···
```

```
··· dotnet tool run dotnetsay

        Welcome to using a .NET Core global tool!

    _____
                      \
                       \

                        ....
                         ....'
                        ....
                    .........
              ............'..'..
           ..............'..'....
          ..........'...'....'...'..
        .........'...'...'....'...'..
       ..'..'...'...'...'...'...'....'..
      .'..'...'...'...'...'...'....'...'.
     .'..'....'...'...'... ...  .....
       ..'..'...'....'... ...
               ..  . .. .     ......

                           ....

       ..  .. .   .  .      ......
```

# Custom regex/ test containers

*Test containers is an open-source library for providing throwaway, lightweight instances of databases, message brokers, web browsers, or just about anything that can run in a Docker container.*

https://testcontainers.com

**RenovateDemo**  +

- Overview
- Boards
- Repos
- Files
- Commits
- Pushes
- Branches
- Tags
- Pull requests
- Advanced Security
- Pipelines
- Test Plans

## chore(deps): update testcontainers/helloworld docker tag to v1.2.0

Active  !144  Erik Lieben proposes to merge renovate/testcontainers-helloworld-1.x into main

Overview  Files  Updates  Commits

✓ **No merge conflicts**
Last checked 2m ago

### Description

This PR contains the following updates:

| Package | Update | Change |
|---|---|---|
| testcontainers/helloworld | minor | `1.0.0` -> `1.2.0` |

### Configuration

🗓 **Schedule**: Branch creation - At any time (no schedule defined), Automerge - At any time (no schedule defined).

⋮ **Automerge**: Disabled by config. Please merge this manually once you are satisfied.

---

**testhttp.cs**  -1+1
/src/WeatherForecast/testhttp.cs

```
11          public HttpTest()
12          {
13              container = new ContainerBuilder()
14  -               .WithImage("testcontainers/helloworld:1.0.0")
15              .WithPortBinding(8080, true)
16              // Wait until the HTTP endpoint of the container is available.
17              .WithWaitStrategy(Wait.ForUnixContainer().UntilHttpRequestIsSucceeded(r => r.ForPort(8080)))
```

```
11          public HttpTest()
12          {
13              container = new ContainerBuilder()
14  +               .WithImage("testcontainers/helloworld:1.2.0")
15              .WithPortBinding(8080, true)
16              // Wait until the HTTP endpoint of the container is availa
17              .WithWaitStrategy(Wait.ForUnixContainer().UntilHttpRequest
```

config.json

```json
regexManagers: [
  {
    fileMatch: [
      ".*/.*\\.cs$"
    ],
    matchStrings: [
      "WithImage\\(\"(?<depName>[a-zA-Z0-9/_.-]+):(?<currentValue>[0-9.]+)\"\\)"
    ],
    datasourceTemplate: "docker"
  }
],
```

# Questions?

**Erik Lieben**

bsky.app/profile/eriklieben.com

linkedin.com/in/eriklieben
www.eriklieben.com

Next in-person event in Amsterdam
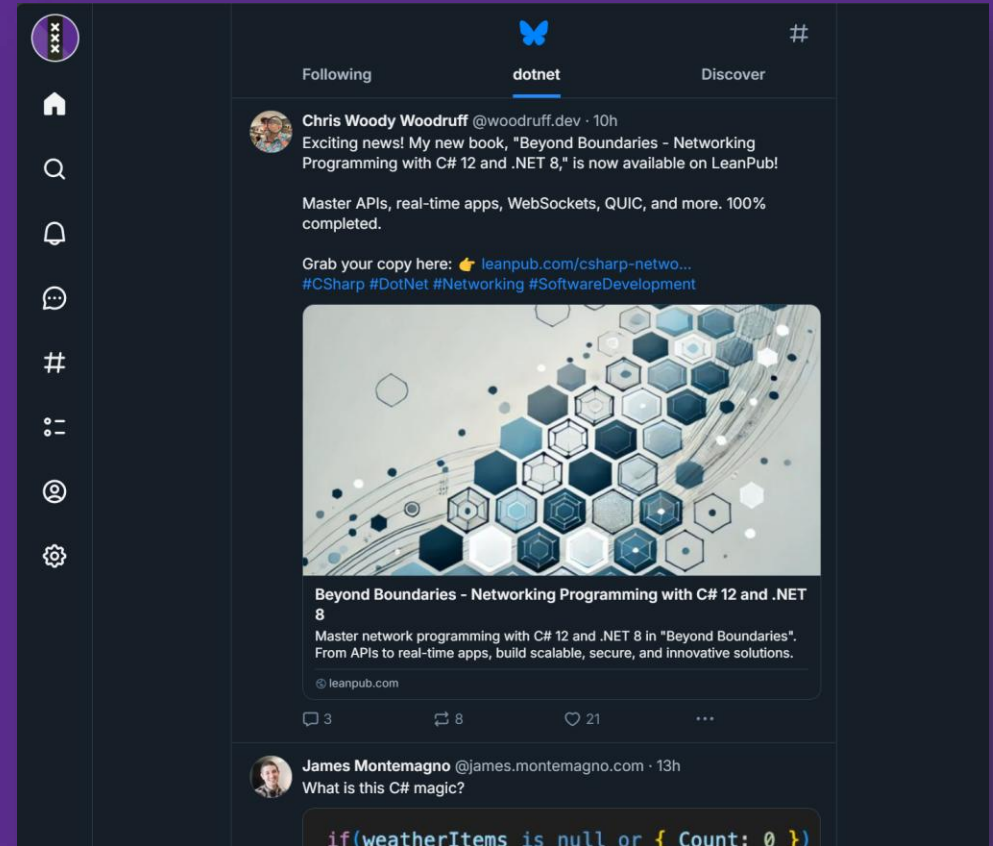
Wednesday, January 8, 2025

WED, JAN 8 · 6:00 PM CET
Dapr introduction & creating a distributed local dev env with .NET Aspire
.NET & Azure / dotnet Amsterdam meetup • Amsterdam, NL

71 attendees · 9 spots left    Event host

---

Following    **dotnet**    Discover

**Chris Woody Woodruff** @woodruff.dev · 10h
Exciting news! My new book, "Beyond Boundaries - Networking Programming with C# 12 and .NET 8," is now available on LeanPub!

Master APIs, real-time apps, WebSockets, QUIC, and more. 100% completed.

Grab your copy here: 👉 leanpub.com/csharp-netwo...
#CSharp #DotNet #Networking #SoftwareDevelopment

**Beyond Boundaries - Networking Programming with C# 12 and .NET 8**
Master network programming with C# 12 and .NET 8 in "Beyond Boundaries". From APIs to real-time apps, build scalable, secure, and innovative solutions.
leanpub.com

💬 3      🔁 8      ♡ 21      ...

**James Montemagno** @james.montemagno.com · 13h
What is this C# magic?

```
if(weatherItems is null or { Count: 0 })
```

bsky.app/profile/dotnet.amsterdam

linkedin.com/company/dotnet-amsterdam