

# Removing Dependabot access to public registries

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Examples of how you can configure Dependabot to only access private registries by removing calls to public registries.

## Who can use this feature

People with write permissions to a repository can configure Dependabot for the repository.

## About configuring Dependabot to only access private registries [↗](#)

Dependabot can access public registries by default, and you can configure Dependabot to also access private registries. For more information about private registry support and configuration, see "[Configuring access to private registries for Dependabot](#)." For in-depth information about available options, as well as recommendations and advice when configuring private registries, see "[Guidance for the configuration of private registries for Dependabot](#)."

You can configure Dependabot to access *only* private registries by removing calls to public registries. This can only be configured for the ecosystems listed in this article.

## Bundler [↗](#)

To configure the Bundler ecosystem to only access private registries, you can set `replaces-base` as `true` in the `dependabot.yml` file. For more information, see "[Configuration options for the dependabot.yml file](#)."

The Bundler ecosystem additionally requires a `Gemfile` file with the private registry URL to be checked into the repository.

```
# Example Gemfile
```

```
source "https://private_registry_url"
```

## Docker

To configure the Docker ecosystem to only access private registries, you can use these configuration methods.

### Option 1

Define the private registry configuration in a `dependabot.yml` file without `replaces-base`. For more information, see "[Configuration options for the dependabot.yml file](#)."

**Note:** Remove `replaces-base: true` from the configuration file.

```
version: 2
registries:
  azuretestregistry: # Define access for a private registry
    type: docker-registry
    url: firewallregistrydep.azurecr.io
    username: firewallregistrydep
    password: ${ secrets.AZUREHUB_PASSWORD }
```

In the `Dockerfile` file, add the image name in the format of `IMAGE[:TAG]`, where `IMAGE` consists of your username and the name of the repository.

```
FROM firewallregistrydep.azurecr.io/myreg/ubuntu:22.04
```

### Option 2

Set `replaces-base` as `true` in the `dependabot.yml` file. For more information, see "[Configuration options for the dependabot.yml file](#)." The registry configured with the `replaces-base` can be used as a mirror or a pull through cache. For further details, see [Registry as a pull through cache](#) in the Docker documentation.

## Gradle

To configure the Gradle ecosystem to only access private registries, you can use these configuration methods.

Define the private registry configuration in a `dependabot.yml` file. For more information, see "[Configuration options for the dependabot.yml file](#)."

**Note:** Remove `replaces-base: true` from the configuration file.

Additionally, you also need to specify the private registry URL in the `repositories` section of the `build.gradle` file.

```
# Example build.gradle file

repositories {
  maven {
    url "https://private_registry_url"
  }
}
```

## Maven

To configure the Maven ecosystem to only access private registries, you can use these

configuration methods.

### Option 1

Set `replaces-base` as `true` in the `dependabot.yml` file. For more information, see "[Configuration options for the dependabot.yml file](#)."

### Option 2

Use only the private registry URL in the `pom.xml` file.

```
<project>
...
<repositories>
  <repository>
    <id>central</id>
    <name>your custom repo</name>
    <url>https://private_registry_url</url>
  </repository>
...
</project>
```

## Node

### npm

To configure the npm ecosystem to only access private registries, you can use these configuration methods.

#### Option 1

Define the private registry configuration in a `dependabot.yml` file. For more information, see "[Configuration options for the dependabot.yml file](#)."

**Note:** Remove `replaces-base: true` from the configuration file.

The npm ecosystem additionally requires a `.npmrc` file with the private registry URL to be checked into the repository.

```
registry=https://private_registry_url
```

#### Option 2

If there is no global registry defined in an `.npmrc` file, you can set `replaces-base` as `true` in the `dependabot.yml` file. For more information, see "[Configuration options for the dependabot.yml file](#)."

**Note:** For scoped dependencies ( `@my-org/my-dep` ), Dependabot requires that the private registry is defined in the project's `.npmrc` file. To define private registries for individual scopes, use `@myscope:registry=https://private_registry_url`.

## Yarn

Yarn Classic and Yarn Berry private registries are both supported by Dependabot, but Dependabot requires a different configuration for each ecosystem to access only private registries.

### Yarn Classic

To configure the Yarn Classic ecosystem to only access private registries, you can use these configuration methods.

### Option 1

Define the private registry configuration in a `dependabot.yml` file. For more information, see "[Configuration options for the dependabot.yml file](#)."

**Note:** Delete `replaces-base: true` from the configuration file.

To ensure the private registry is listed as the dependency source in the project's `yarn.lock` file, run `yarn install` on a machine with private registry access. Yarn should update the `resolved` field to include the private registry URL.

```
encoding@^0.1.11:
  version "0.1.13"
  resolved "https://private_registry_url/encoding/-/encoding-
0.1.13.tgz#56574afdd791f54a8e9b2785c0582a2d26210fa9"
  integrity sha512-
ETBauow1T35Y/WZMkio9jiM0Z5xjHHmJ4XmjZ0q1l/dXz3lr2sRn87nJy20RupqSh1F2m3HHPsp8ShIPQJr

dependencies:
  iconv-lite "^0.6.2"
```

### Option 2

If the `yarn.lock` file doesn't list the private registry as the dependency source, you can set up Yarn Classic according to the normal package manager instructions:

- 1 Define the private registry configuration in a `dependabot.yml` file
- 2 Add the registry to a `.yarnrc` file in the project root with the key `registry`. Alternatively run `yarn config set registry <private registry URL>`.

```
registry https://private_registry_url
```

### Option 3

If there is no global registry defined in a `.yarnrc` file, you can set `replaces-base` as `true` in the `dependabot.yml` file. For more information, see "[Configuration options for the dependabot.yml file](#)."

**Note:** For scoped dependencies ( `@my-org/my-dep` ), Dependabot requires that the private registry is defined in the project's `.npmrc` file. To define private registries for individual scopes, use `@myscope:registry=https://private_registry_url`.

## Yarn Berry

To configure the Yarn Berry ecosystem to only access private registries, you can use these configuration methods.

### Option 1

Define the private registry configuration in a `dependabot.yml` file. For more information, see "[Configuration options for the dependabot.yml file](#)."

**Note:** Delete `replaces-base: true` from the configuration file.

To ensure the private registry is listed as the dependency source in the project's `yarn.lock` file, run `yarn install` on a machine with private registry access. Yarn should update the `resolved` field to include the private registry URL.

```
encoding@^0.1.11:
  version "0.1.13"
  resolved "https://private_registry_url/encoding/-/encoding-0.1.13.tgz#56574afdd791f54a8e9b2785c0582a2d26210fa9"
  integrity sha512-ETBauow1T35Y/WZMkio9jiM0Z5xjHHmJ4XmjZ0q1l/dXz3lr2sRn87nJy20RupqSh1F2m3HHPSp8ShIPQJr...

dependencies:
  iconv-lite "^0.6.2"
```

## Option 2

If the `yarn.lock` file doesn't list the private registry as the dependency source, you can set up Yarn Berry according to the normal package manager instructions:

- 1 Define the private registry configuration in a `dependabot.yml` file
- 2 Add the registry to a `.yarnrc.yml` file in the project root with the key `npmRegistryServer`. Alternatively run `yarn config set npmRegistryServer <private registry URL>`. `npmRegistryServer: "https://private_registry_url"`

**Note:** For scoped dependencies ( `@my-org/my-dep` ), Dependabot requires that the private registry is defined in the project's `.yarnrc` file. To define private registries for individual scopes, use `"@myscope:registry" "https://private_registry_url"`.

## Nuget

To allow the Nuget ecosystem to only access private registries, you can configure the `dependabot.yml` file. For more information, see "[Configuration options for the dependabot.yml file](#)."

The Nuget ecosystem additionally requires a `nuget.config` file to be checked into the repository, with either a `< clear />` tag in `<packageSources>` section or a key `nuget.org` as true in the `disabledPackageSources` section of the `nuget.config` file.

This is an example of a `< clear />` tag in the `packageSources` section of the `nuget.config`.

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <packageSources>
    < clear />
    <add key="example-nuget" value="https://private_registry_url/nuget/example-nuget/index.json" />
  </packageSources>
</configuration>
```

This is an example of adding key `nuget.org` as true to the `disabledPackageSources` section of the `nuget.config`

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <packageSources>
    <add key="example-nuget" value="https://private_registry_url/nuget/example-nuget/index.json" />
  </packageSources>
```

```
<disabledPackageSources>
  <add key="nuget.org" value="true" />
</disabledPackageSources>
</configuration>
```

To configure Dependabot to access both private *and* public feeds, view the following `dependabot.yml` example which includes the configured `public` feed under `registries` :

```
version: 2
registries:
  nuget-example:
    type: nuget-feed
    url: https://nuget.example.com/v3/index.json
    username: $
    password: $
  public:
    type: nuget-feed
    url: https://api.nuget.org/v3/index.json
updates:
  - package-ecosystem: nuget
    directory: "/"
    registries: "*"
    schedule:
      interval: daily
```

## Python

Pip, Pip-compile, Pipenv, and Poetry are the four package managers that the Python ecosystem currently supports.

### Pip

To configure the Pip ecosystem to only access private registries, you can use these configuration methods.

#### Option 1

Define the private registry configuration in a `dependabot.yml` file. For more information, see "[Configuration options for the dependabot.yml file](#)."

**Note:** Delete `replaces-base: true` from the configuration file.

Add the private registry URL to the `[global]` section of the `pip.conf` file and check the file into the repository.

```
[global]
timeout = 60
index-url = https://private_registry_url
```

#### Option 2

Set `replaces-base` as `true` in the `dependabot.yml` file. For more information, see "[Configuration options for the dependabot.yml file](#)."

## Pip-compile

To configure the Pip-compile ecosystem to only access private registries, you can use these configuration methods.

#### Option 1

Set `replaces-base` as `true` in the `dependabot.yml` file. For more information, see "[Configuration options for the dependabot.yml file](#)."

## Option 2

Define the private registry configuration in a `dependabot.yml` file. For more information, see "[Configuration options for the dependabot.yml file](#)."

**Note:** Delete `replaces-base: true` from the configuration file.

Add the private registry URL to the `requirements.txt` file and check the file into the repository.

```
--index-url https://private_registry_url
```

## Pipenv

To configure Pipenv to only access private registries, remove `replaces-base` from the `dependabot.yml` file. For more information, see "[Configuration options for the dependabot.yml file](#)."

**Note:** Delete `replaces-base: true` from the configuration file.

Add the private registry URL to the `[[source]]` section of the `Pipfile` file and check the file into the repository.

```
[[source]]
url = "https://private_registry_url"
verify_ssl = true
name = "pypi"
```

## Poetry

To configure Poetry to only access private registries, set `replaces-base` as `true` in the `dependabot.yml` file. For more information, see "[Configuration options for the dependabot.yml file](#)."

Add the private registry url to the `[[tool.poetry.source]]` section of the `pyproject.toml` file and checked it in the repository.

```
[[tool.poetry.source]]
name = "private"
url = "https://private_registry_url"
default = true
```

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