Removing Dependabot access to public registries

In this article

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.

> **Note:** Before you remove access to public registries from your configuration for Dependabot updates, check that your site administrator has set up the Dependabot runners with access to the private registries you need. For more information, see "Configuring Dependabot to work with limited internet access."

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/WZMkio9jiM0Z5xjHHmJ4XmjZOq1l/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/WZMkio9jiM0Z5xjHHmJ4XmjZOq1l/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
<?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`:

```yaml
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
```