repo.nju.edu.cn

- Docker Hub
- GCR
- GHCR
- GLCR
- NGC
- Quay
- k8s
- Go
- Maven
- Gradle
- npm
- PyPI (Python Package Index)

Docker Hub

Linux

[`/etc/docker/daemon.json` □□□□

```
{
  "registry-mirrors": ["https://docker.nju.edu.cn/"]
}
```

□□□□ docker□

```
sudo systemctl restart docker.service
```

[`docker info` □□□□□□□□□□□□□□□□□□□□□□

```
Registry Mirrors:
 https://docker.nju.edu.cn/
```

macOS

1. □□ "Docker.app"
2. □ `⌘,` □□□(□□□
3. □□ "Advanced" □□□
4. □ "Registry mirrors" `https://docker.nju.edu.cn/`
5. □□□□□ "Restart" □□

Docker Desktop

□□□□□□□

1. □□ **Settings-Docker Engine**
2. `registry-mirrors` `https://docker.nju.edu.cn/`
3. □□ **Apply&Restart**

GCR

Google Container Registry

gcr.io

[gcr.io [gcr.nju.edu.cn □□□

□

```
docker pull gcr.io/cadvisor/cadvisor:v0.39.3
```

□□□

```
docker pull gcr.nju.edu.cn/cadvisor/cadvisor:v0.39.3
```

k8s.gcr.io

[k8s.gcr.io [gcr.nju.edu.cn/google-containers □□□

□

```
docker pull k8s.gcr.io/kube-proxy:v1.18.6
```

□□□

```
docker pull gcr.nju.edu.cn/google-containers/kube-proxy:v1.18.6
```

GHCR

Github Container Registry

ghcr.io

ghcr.io ghcr.nju.edu.cn □□□

□

```
docker pull ghcr.io/github/super-linter:latest
```

□□□

```
docker pull ghcr.nju.edu.cn/github/super-linter:latest
```

GLCR

GitLab Container Registry

registry.gitlab.com

[registry.gitlab.com] [glcr.nju.edu.cn] □□□

□

```
docker pull registry.gitlab.com/pipeline-components/yamllint
```

□□□

```
docker pull glcr.nju.edu.cn/pipeline-components/yamllint
```

NGC

NVIDIA NGC Catalog

nvcr.io

[nvcr.io [nvcr.nju.edu.cn [ngc.nju.edu.cn □□□

□

```
docker pull nvcr.io/nvidia/cuda
```

□□□

```
docker pull nvcr.nju.edu.cn/nvidia/cuda
```

Quay

Quay Container Registry

quay.io

[quay.io [quay.nju.edu.cn □□□

□

```
docker pull quay.io/prometheus/prometheus:latest
```

□□□

```
docker pull quay.nju.edu.cn/prometheus/prometheus:latest
```

k8s

Kubernetes's container image registry

registry.k8s.io

[registry.k8s.io [k8s.nju.edu.cn □□□

□

```
docker pull registry.k8s.io/busybox
```

□□□

```
docker pull k8s.nju.edu.cn/busybox
```

Go

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□□□□□□□□□□□□□ go □□□□□□□□□□□□□□

go □□□□□□□□□□□□□□□□□□

```
go env -w GO111MODULE=on # □□ Go Modules □□
go env -w GOPROXY="https://repo.nju.edu.cn/repository/go/,direct" # □□□□
go env | grep GOPROXY # linux □□□□

go env |findstr "GOPROXY" # windows □□□□
```

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```
go env -w GOPRIVATE="*.nju.edu.cn"
```

Maven

□□□□□□□□□central + jcenter + gradle-plugin□□□□□□central+jcenter+google□□ maven central □□□□□□□□

maven □□□□

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□□□□□□□□□□□□□□□□□□□□ maven □□□□□□□□□□□□□□□□□□

- linux □□□□□□□□□□□□:

```
mkdir ~/.m2
vim ~/.m2/settings.xml
```

- windows □□□ powershell (□□pwsh□) □□□□□□□□

```
mkdir ~/.m2
cd ~/.m2
notepad settings.xml
```

□□□□□□□□□□□□□□□□□□

```
<?xml version="1.0" encoding="UTF-8"?>
<settings xmlns="http://maven.apache.org/SETTINGS/1.0.0"
          xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
          xsi:schemaLocation="http://maven.apache.org/SETTINGS/1.0.0 http://maven.apache.org/xsd/settings-1.0.0.xsd">
    <mirrors>
       <mirror>
            <id>nju_mirror</id>
            <mirrorOf>*</mirrorOf>
            <url>https://repo.nju.edu.cn/repository/maven-public/</url>
        </mirror>
    </mirrors>
</settings>
```

[`mirrors`]□□□□□□□□□ (□□ mirrorOf □□□□□□□□□□□□□□□□□)□

```
<mirror>
    <id>nju_mirror</id>
    <mirrorOf>*</mirrorOf>
    <url>https://repo.nju.edu.cn/repository/maven-public/</url>
</mirror>
```

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[`pom.xml`]□□□□□□□□

```
<project>
    ......[□□□□]

    <repositories>
        <repository>
            <id>nju</id>
            <url>https://repo.nju.edu.cn/repository/maven-public/</url>
            <releases>
                <enabled>true</enabled>
            </releases>
            <snapshots>
                <enabled>false</enabled>
            </snapshots>
        </repository>
    </repositories>
</project>
```

---

maven □□

□□□□ maven □□□□□□□□□□□□□□□□□□□□Jar □□□□□□□□□□□□□□□□□□□□

□□□□□□□

[illegible] `https://repo.nju.edu.cn/repository/maven-nju/` [illegible]

[illegible]:

- [illegible]
- [illegible] maven-public [illegible];
- [illegible];
- [illegible]

[illegible]

1. [illegible] `~/.m2/settings.xml` [illegible] settings [illegible]:

```
<servers>
    <server>
        <id>nju-server</id>
        <username>[illegible]</username>
        <password>[illegible]</password>
    </server>
</servers>
```

2. [illegible] `pom.xml` [illegible] project [illegible]:

```
<distributionManagement>
    <repository>
        <id>nju-server</id>
        <name>Releases</name>
        <url>http://repo.nju.edu.cn/repository/maven-releases/</url>
    </repository>

    <snapshotRepository>
        <id>nju-server</id>
        <name>Snapshot</name>
        <url>http://repo.nju.edu.cn/repository/maven-snapshots</url>
    </snapshotRepository>
</distributionManagement>
```

3. [illegible] `mvn deploy` [illegible] `-SNAPSHOT` [illegible] maven-snapshots[illegible] maven-releases[illegible]

[illegible]

- □□□□□□ id □□□□□□□□
- □□□□□□□□□jar□□
- □□□□□□□□□□□□□□□□□□□□□□□□
- `com.example` □□□□□□□□□□□□□□□□□□□□□□□□□□

Gradle

□□□□□□□□□central + jcenter + gradle-plugin□□□□□□central+jcenter+google□□ maven central □□□□□□□□ g

□□□□□□□□ `gradle\wapper\gradle-wrapper.properties` [`distributionUrl` [`http://mirror.nju.edu.cn/gradle/gradle-[version].zip` □□□□□□□□

□□□□

□□□□□□□□□□□□□□□□□□□□ gradle □□□□□□□□□□□□□□□□:

- linux □□□□□□□□□□□□:

```
mkdir ~/.gradle
vim ~/.gradle/init.gradle
```

- windows □□□ powershell (□□pwsh□) □□□□□□:

```
mkdir ~/.gradle
cd ~/.gradle
notepad init.gradle
```

□□□□□□□□:

```
allprojects {
    buildscript {
        repositories {
            def NJU_REPOSITORY_URL = 'https://repo.nju.edu.cn/repository/maven-public/'
            all { ArtifactRepository repo ->
                if (repo instanceof MavenArtifactRepository) {
                    def url = repo.url.toString()
                    if (url.startsWith('https://repo1.maven.org/maven2')) {
                        project.logger.lifecycle "Repository ${repo.url} replaced by $NJU_REPOSITORY_URL."
                        remove repo
                    }
                    if (url.startsWith('https://jcenter.bintray.com/')) {
                        project.logger.lifecycle "Repository ${repo.url} deleted."
```

```
                remove repo
            }
            if (url.startsWith('https://dl.google.com/dl/android/maven2/')) {
                project.logger.lifecycle "Repository ${repo.url} deleted."
                remove repo
            }
            if (url.contains('plugins.gradle.org/m2')) {
                project.logger.lifecycle "Repository ${repo.url} deleted."
                remove repo
            }
        }
    }
    maven { url NJU_REPOSITORY_URL }
    mavenLocal()
  }
}

repositories {
  def NJU_REPOSITORY_URL = 'https://repo.nju.edu.cn/repository/maven-public/'
  all { ArtifactRepository repo ->
    if (repo instanceof MavenArtifactRepository) {
      def url = repo.url.toString()
      if (url.startsWith('https://repo1.maven.org/maven2')) {
        project.logger.lifecycle "Repository ${repo.url} replaced by $NJU_REPOSITORY_URL."
        remove repo
      }
      if (url.startsWith('https://jcenter.bintray.com/')) {
        project.logger.lifecycle "Repository ${repo.url} deleted."
        remove repo
      }
      if (url.startsWith('https://dl.google.com/dl/android/maven2/')) {
        project.logger.lifecycle "Repository ${repo.url} deleted."
        remove repo
      }
      if (url.contains('plugins.gradle.org/m2')) {
        project.logger.lifecycle "Repository ${repo.url} deleted."
        remove repo
      }
    }
  }
```

```
        maven { url NJU_REPOSITORY_URL }
        mavenLocal()
    }
}
```

□□□□□□□ g`gradle --stop`□□□□□□□ gradle □ daemon□ □□□□□□□□□

□□□□

[`build.gradle`□□□□□□:□

```
buildscript {
    repositories {
        maven { url 'https://repo.nju.edu.cn/repository/maven-public/' }
    }
}



plugins {
    ...[□□□□□ gradle □□]
}

allprojects {
    repositories {
        maven { url 'https://repo.nju.edu.cn/repository/maven-public/' }
    }
}
```

□□□□□□□□□□□□□□□□□□□ gradle □□□

npm

Node Package Manager

[illegible]

npm [illegible]

[illegible]

```
npm install [packageName] --registry=https://repo.nju.edu.cn/repository/npm/
```

[illegible]

[illegible]

[illegible]

```
npm config set registry https://repo.nju.edu.cn/repository/npm/ # [illegible]
```

npm [illegible]

[illegible] np**npm** [illegible] js [illegible]

[illegible]

[illegible] `https://repo.nju.edu.cn/repository/npm-nju/` [illegible]

[illegible]:

- [illegible]
- [illegible] pypi [illegible]
- [illegible]

- [illegible]

[illegible]

1. [illegible] npm [illegible]

   ```
   npm adduser --registry https://repo.nju.edu.cn/repository/npm-releases/
   ```

   [illegible]
2. [illegible]`package.json` [illegible]

   ```
     "publishConfig": {
       "registry" : "https://repo.nju.edu.cn/repository/npm-releases/"
     },
   ```

3. [illegible]`package.json` [illegible]
4. [illegible]`.npmignore` [illegible]
5. [illegible]

   ```
   npm run build
   npm publish
   ```

yarn [illegible]

```
yarn config set registry https://repo.nju.edu.cn/repository/npm/ # [illegible]
```

yarn [illegible] `yarn login` [illegible] yarn publish [illegible]

PyPI (Python Package Index)

Python [illegible]PyPI[illegible] Python [illegible]

pip [illegible]

[illegible]

```
pip install -i https://repo.nju.edu.cn/repository/pypi/simple [packageName]
```

[illegible]

[illegible]

[illegible] pip [illegible]

```
pip install pip -U # [illegible] pip [illegible]
pip config set global.index-url https://repo.nju.edu.cn/repository/pypi/simple # [illegible]
```

[illegible]

[illegible] tensorflow [illegible]

```
  WARNING: Retrying (Retry(total=4[illegible] connect=None[illegible] read=None[illegible] redirect=None[illegible] status=None)) after connectio
broken by 'ReadTimeoutError("HTTPSConnectionPool(host='repo.nju.edu.cn'[illegible] port=443): Read timed out. (read
timeout=15)")': [uri]
  WARNING: Retrying (Retry(total=3[illegible] connect=None[illegible] read=None[illegible] redirect=None[illegible] status=None)) after connectio
broken by 'ReadTimeoutError("HTTPSConnectionPool(host='repo.nju.edu.cn'[illegible] port=443): Read timed out. (read
timeout=15)")': [uri]
  WARNING: Retrying (Retry(total=2[illegible] connect=None[illegible] read=None[illegible] redirect=None[illegible] status=None)) after connectio
broken by 'ReadTimeoutError("HTTPSConnectionPool(host='repo.nju.edu.cn'[illegible] port=443): Read timed out. (read
timeout=15)")': [uri]
  WARNING: Retrying (Retry(total=1[illegible] connect=None[illegible] read=None[illegible] redirect=None[illegible] status=None)) after connectio
```

```
broken by 'ReadTimeoutError("HTTPSConnectionPool(host='repo.nju.edu.cn'， port=443): Read timed out. (read
timeout=15)")': [uri]
  WARNING: Retrying (Retry(total=0， connect=None， read=None， redirect=None， status=None)) after connectio
broken by 'ReadTimeoutError("HTTPSConnectionPool(host='repo.nju.edu.cn'， port=443): Read timed out. (read
timeout=15)")': [uri]
ERROR: Could not install packages due to an OSError: HTTPSConnectionPool(host='repo.nju.edu.cn'， port=443):
Max retries exceeded with url: [url] (Caused by ReadTimeoutError("HTTPSConnectionPool(host='repo.nju.edu.cn'，
port=443): Read timed out. (read timeout=15)"))
```

[illegible]2[illegible]

---

pypi [illegible]

[illegible] pypi **pip** [illegible] python [illegible]

[illegible]

[illegible] `https://repo.nju.edu.cn/repository/pypi-nju/simple` [illegible]

[illegible]:

- [illegible]
- [illegible] pypi [illegible]
- [illegible]
- [illegible]
- [illegible]

[illegible]

- linux [illegible]

```
vim ~/.pypirc
```

- windows [illegible] powershell [illegible] pwsh[illegible]

```
cd ~
notepad .pypirc
```

□□□□□□□□□□□□□□

```
[distutils]
index-servers =
    nju

[nju]
repository: https://repo.nju.edu.cn/repository/pypi-releases/
username: [□□□]
password: [□□□□□□□□]
```

□□□□□□□□□

```
python setup.py check
python setup.py sdist bdist_wheel upload -r nju
```

□□□□ python□□□□□□□□□□□□□

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