



Maven

• Apache Maven

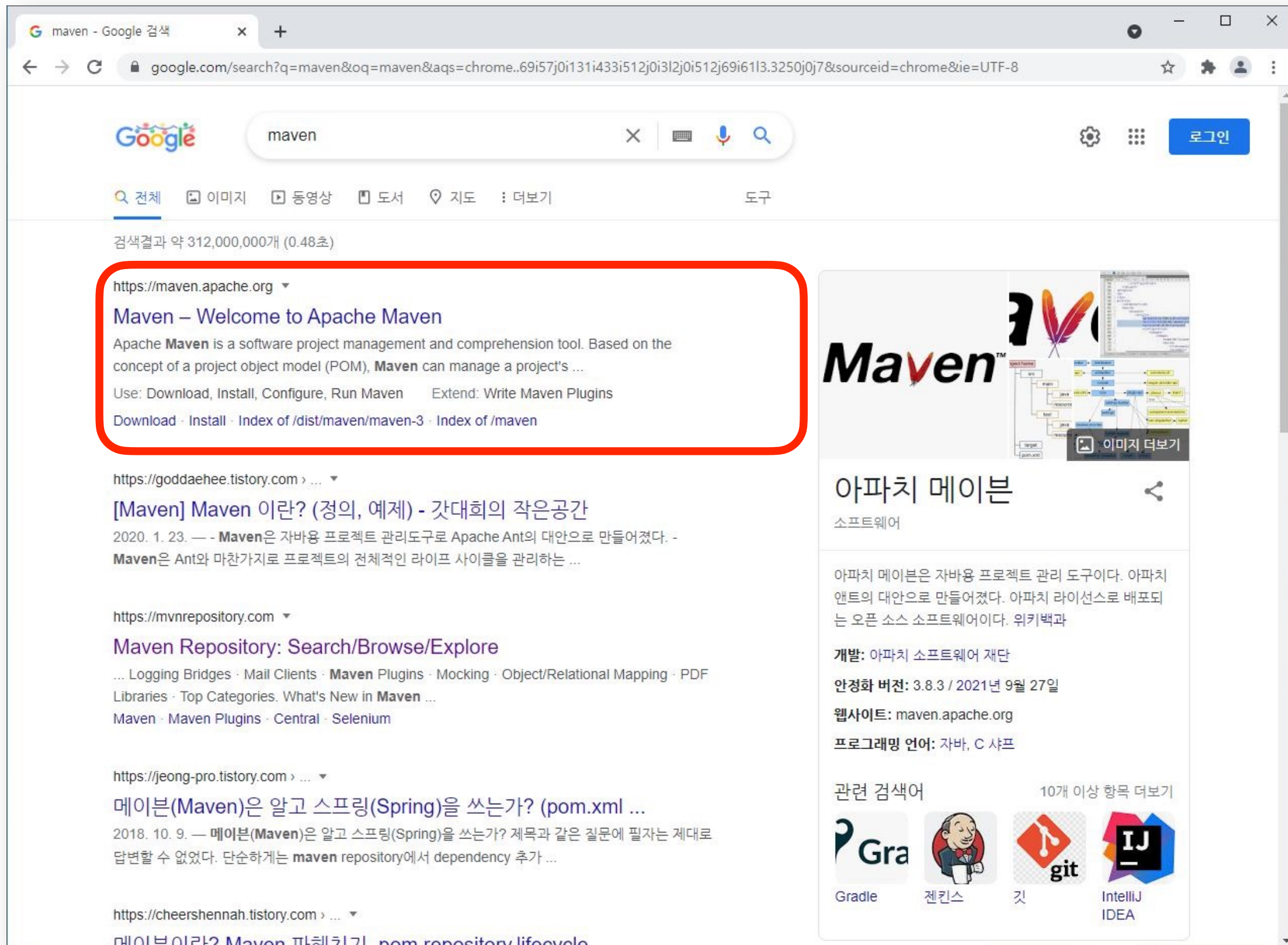
- 아파치 메이븐(Apache Maven)은 자바용 프로젝트 관리 도구이다.
아파치 앤트의 대안으로 만들어졌다.
아파치 라이선스로 배포되는 오픈 소스 소프트웨어이다.

참고

- 아파치 메이븐은 프로젝트 빌드 도구 그리고 배포 도구이다.
- 스프링에서는 기본셋팅이 프로젝트를 메이븐을 통해서 관리하도록 하고 있다.
- 필요한 라이브러리는 메이븐 서버에서 가져와서 적용되도록 하고있다.
- 스프링프로젝트에서 pom.xml 파일은 메이븐이 사용하는 설정파일이다.

Apache Maven Server 설치

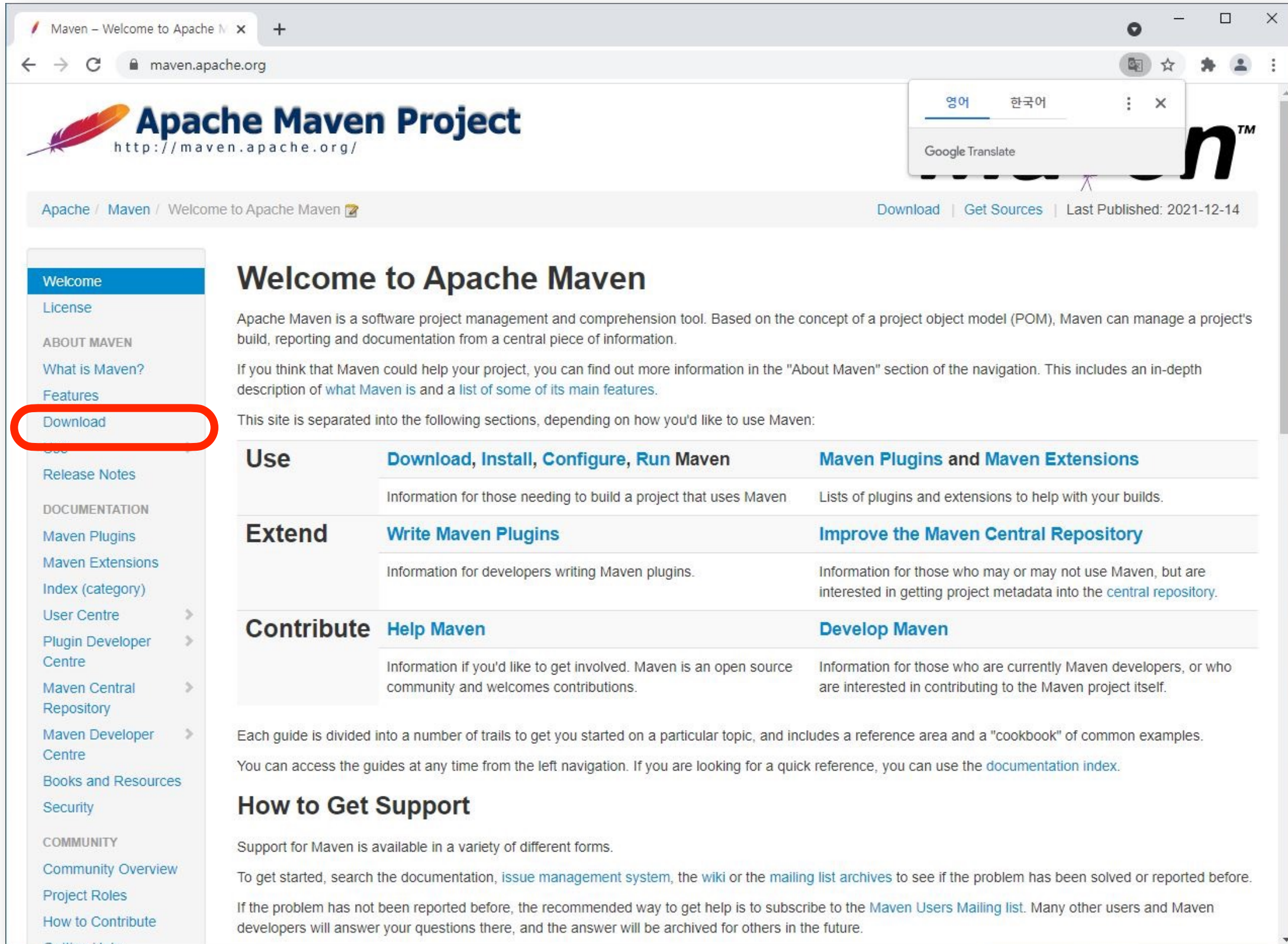
- ❖ 아파치 메이븐(Apache Maven)을 검색해서 사이트로 이동한다.
<https://maven.apache.org>



The screenshot shows a Google search for 'maven'. The top result is 'Maven - Welcome to Apache Maven' with the URL 'https://maven.apache.org'. The description states: 'Apache **Maven** is a software project management and comprehension tool. Based on the concept of a project object model (POM), **Maven** can manage a project's ...'. Below the description are links for 'Use: Download, Install, Configure, Run Maven' and 'Extend: Write Maven Plugins'. Further down are links for 'Download', 'Install', 'Index of /dist/maven/maven-3', and 'Index of /maven'. To the right of the search results is a knowledge panel for '아파치 메이븐' (Apache Maven), categorized as '소프트웨어' (Software). It includes a description: '아파치 메이븐은 자바용 프로젝트 관리 도구이다. 아파치 앤트의 대안으로 만들어졌다. 아파치 라이선스로 배포되는 오픈 소스 소프트웨어이다. 위키백과'. It also lists '개발: 아파치 소프트웨어 재단', '안정화 버전: 3.8.3 / 2021년 9월 27일', '웹사이트: maven.apache.org', and '프로그래밍 언어: 자바, C 샤프'. At the bottom of the knowledge panel are icons for related tools: Gradle, Jenkins, Git, and IntelliJ IDEA.

- ❖ 아파치 메이븐(Apache Maven) 사이트로 이동하면 왼쪽 메뉴중 **download** 메뉴를 클릭한다.

클릭



Maven – Welcome to Apache M x +

maven.apache.org

Apache Maven Project
http://maven.apache.org/

Apache / Maven / Welcome to Apache Maven

Download | Get Sources | Last Published: 2021-12-14

Welcome

License

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Welcome to Apache Maven

Apache Maven is a software project management and comprehension tool. Based on the concept of a project object model (POM), Maven can manage a project's build, reporting and documentation from a central piece of information.

If you think that Maven could help your project, you can find out more information in the "About Maven" section of the navigation. This includes an in-depth description of [what Maven is](#) and a [list of some of its main features](#).

This site is separated into the following sections, depending on how you'd like to use Maven:

Use	Download, Install, Configure, Run Maven Information for those needing to build a project that uses Maven	Maven Plugins and Maven Extensions Lists of plugins and extensions to help with your builds.
Extend	Write Maven Plugins Information for developers writing Maven plugins.	Improve the Maven Central Repository Information for those who may or may not use Maven, but are interested in getting project metadata into the central repository .
Contribute	Help Maven Information if you'd like to get involved. Maven is an open source community and welcomes contributions.	Develop Maven Information for those who are currently Maven developers, or who are interested in contributing to the Maven project itself.

Each guide is divided into a number of trails to get you started on a particular topic, and includes a reference area and a "cookbook" of common examples.

You can access the guides at any time from the left navigation. If you are looking for a quick reference, you can use the [documentation index](#).

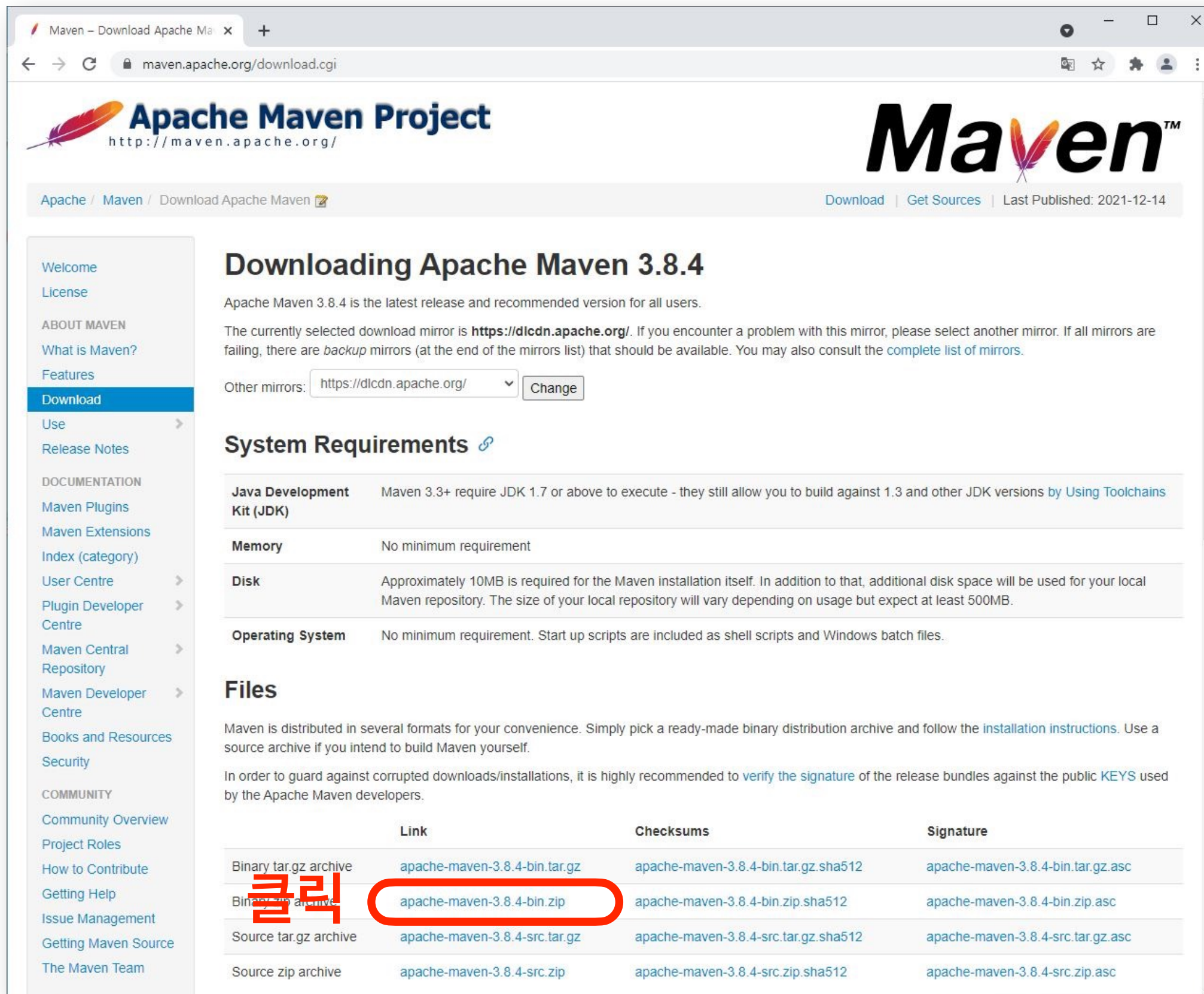
How to Get Support

Support for Maven is available in a variety of different forms.

To get started, search the documentation, [issue management system](#), the [wiki](#) or the [mailing list archives](#) to see if the problem has been solved or reported before.

If the problem has not been reported before, the recommended way to get help is to subscribe to the [Maven Users Mailing list](#). Many other users and Maven developers will answer your questions there, and the answer will be archived for others in the future.

❖ 다운로드 항목으로 이동하면 Files 항목을 찾아서 Binary zip archive 파일을 다운 받는다.



Downloading Apache Maven 3.8.4

Apache Maven 3.8.4 is the latest release and recommended version for all users.

The currently selected download mirror is <https://dlcdn.apache.org/>. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there are *backup* mirrors (at the end of the mirrors list) that should be available. You may also consult the [complete list of mirrors](#).

Other mirrors:

System Requirements

Java Development Kit (JDK)	Maven 3.3+ require JDK 1.7 or above to execute - they still allow you to build against 1.3 and other JDK versions by Using Toolchains
Memory	No minimum requirement
Disk	Approximately 10MB is required for the Maven installation itself. In addition to that, additional disk space will be used for your local Maven repository. The size of your local repository will vary depending on usage but expect at least 500MB.
Operating System	No minimum requirement. Start up scripts are included as shell scripts and Windows batch files.

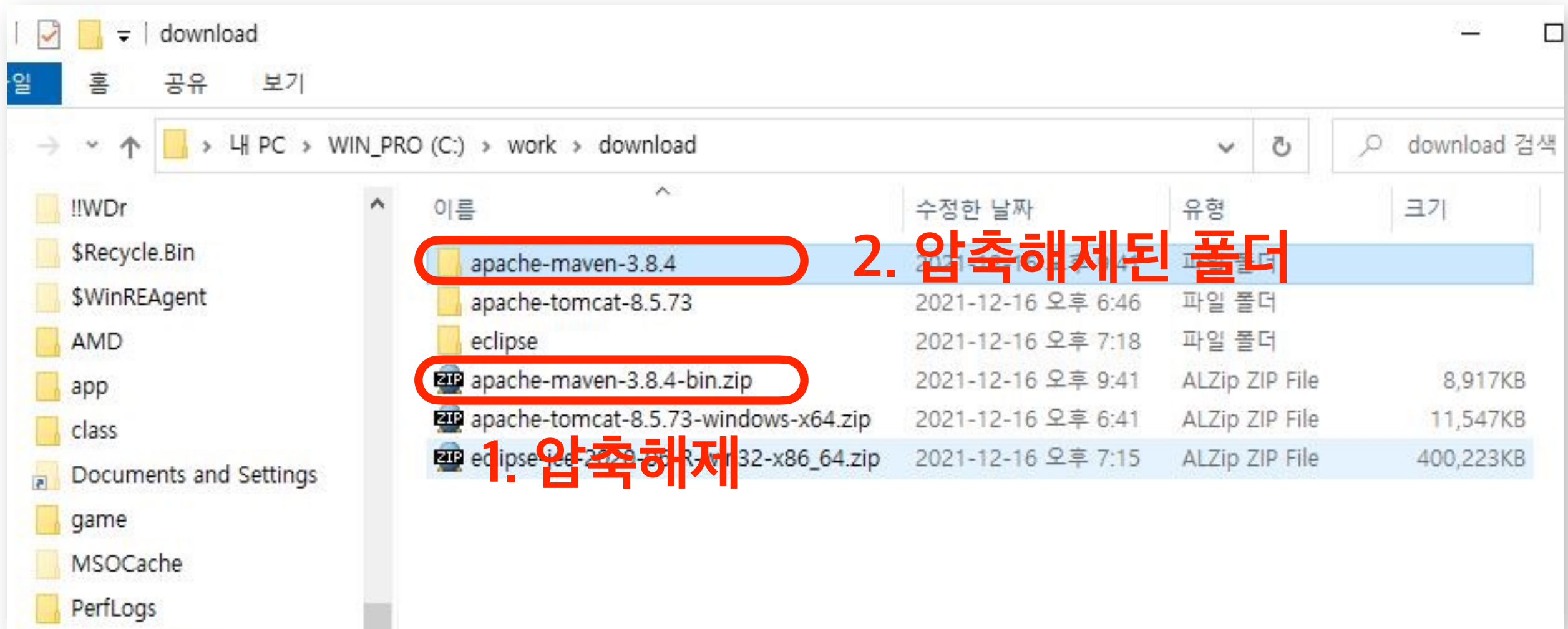
Files

Maven is distributed in several formats for your convenience. Simply pick a ready-made binary distribution archive and follow the [installation instructions](#). Use a source archive if you intend to build Maven yourself.

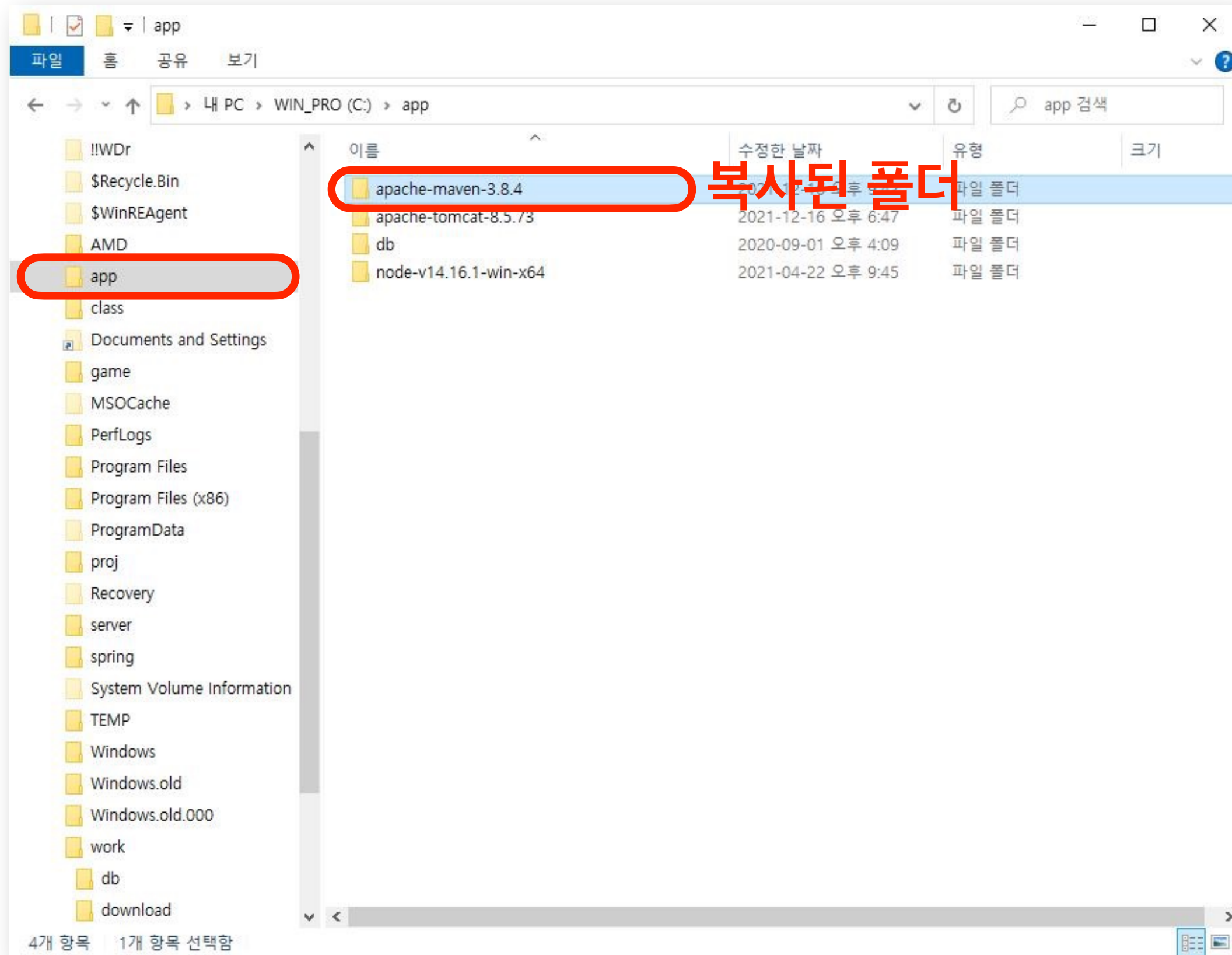
In order to guard against corrupted downloads/installations, it is highly recommended to [verify the signature](#) of the release bundles against the public [KEYS](#) used by the Apache Maven developers.

	Link	Checksums	Signature
Binary tar.gz archive	apache-maven-3.8.4-bin.tar.gz	apache-maven-3.8.4-bin.tar.gz.sha512	apache-maven-3.8.4-bin.tar.gz.asc
Binary zip archive	apache-maven-3.8.4-bin.zip	apache-maven-3.8.4-bin.zip.sha512	apache-maven-3.8.4-bin.zip.asc
Source tar.gz archive	apache-maven-3.8.4-src.tar.gz	apache-maven-3.8.4-src.tar.gz.sha512	apache-maven-3.8.4-src.tar.gz.asc
Source zip archive	apache-maven-3.8.4-src.zip	apache-maven-3.8.4-src.zip.sha512	apache-maven-3.8.4-src.zip.asc

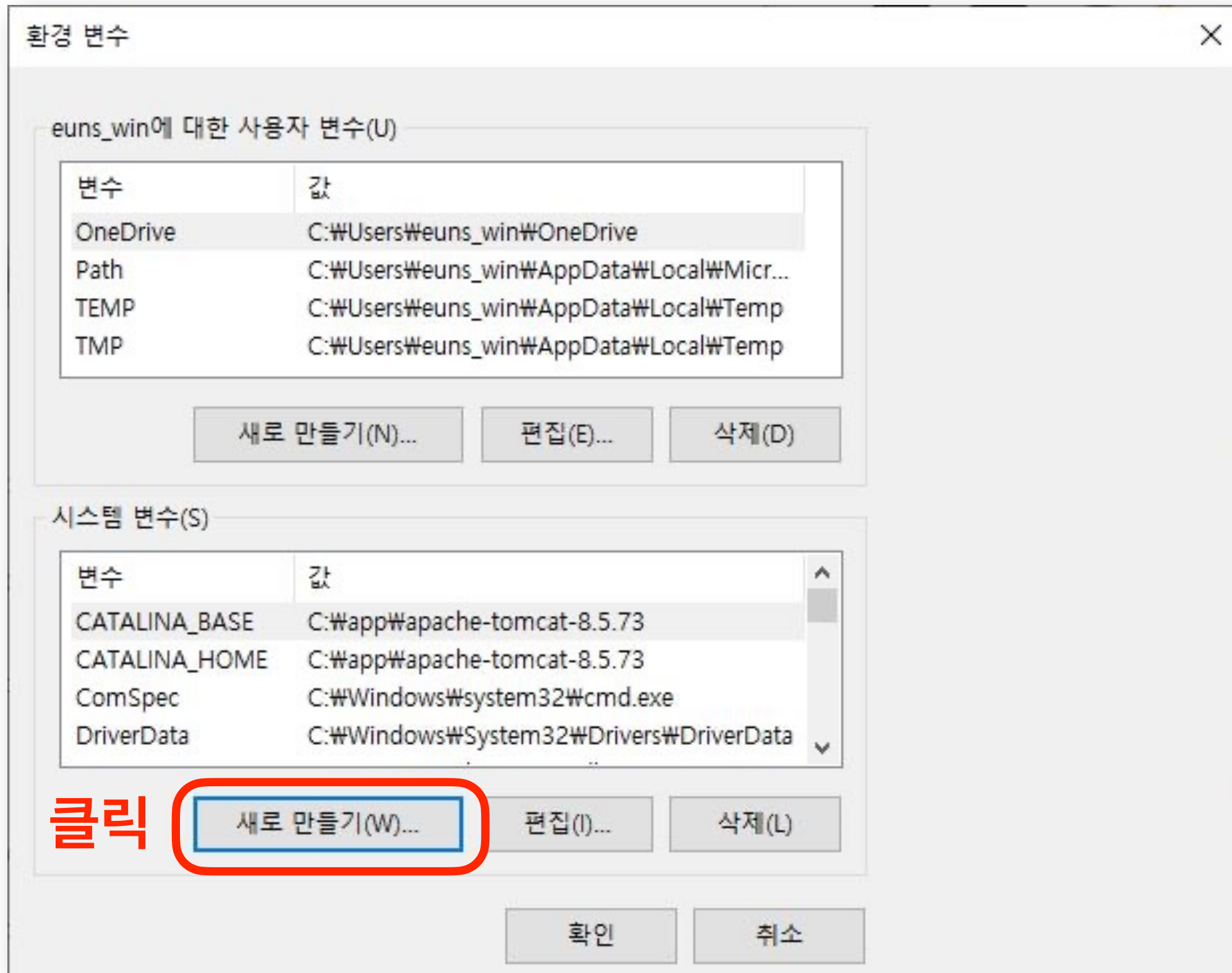
❖ 다운로드받은 파일을 압축해제한다.



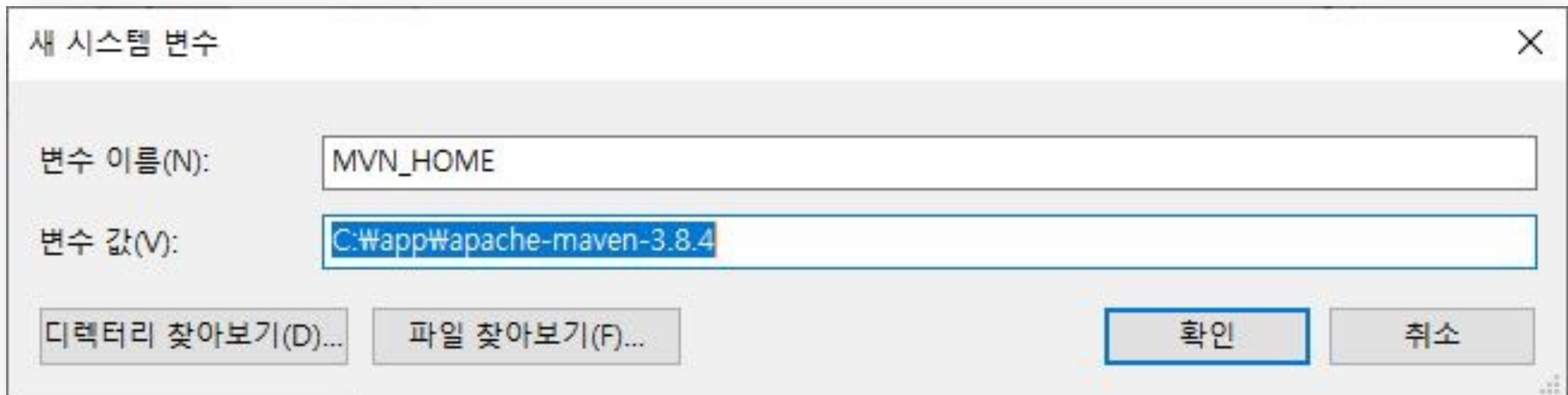
- ❖ 압축해제된 폴더를 원하는 곳에 복사해둔다.
우리의 경우 c:\app 폴더 하위에 복사해두기로 한다.



❖ 시스템 환경변수를 추가해준다.



- ❖ 새로운 시스템 변수는
이름은 **MVN_HOME** 으로하고
변수 값은 복사해둔 폴더를 지정한다.



새 시스템 변수

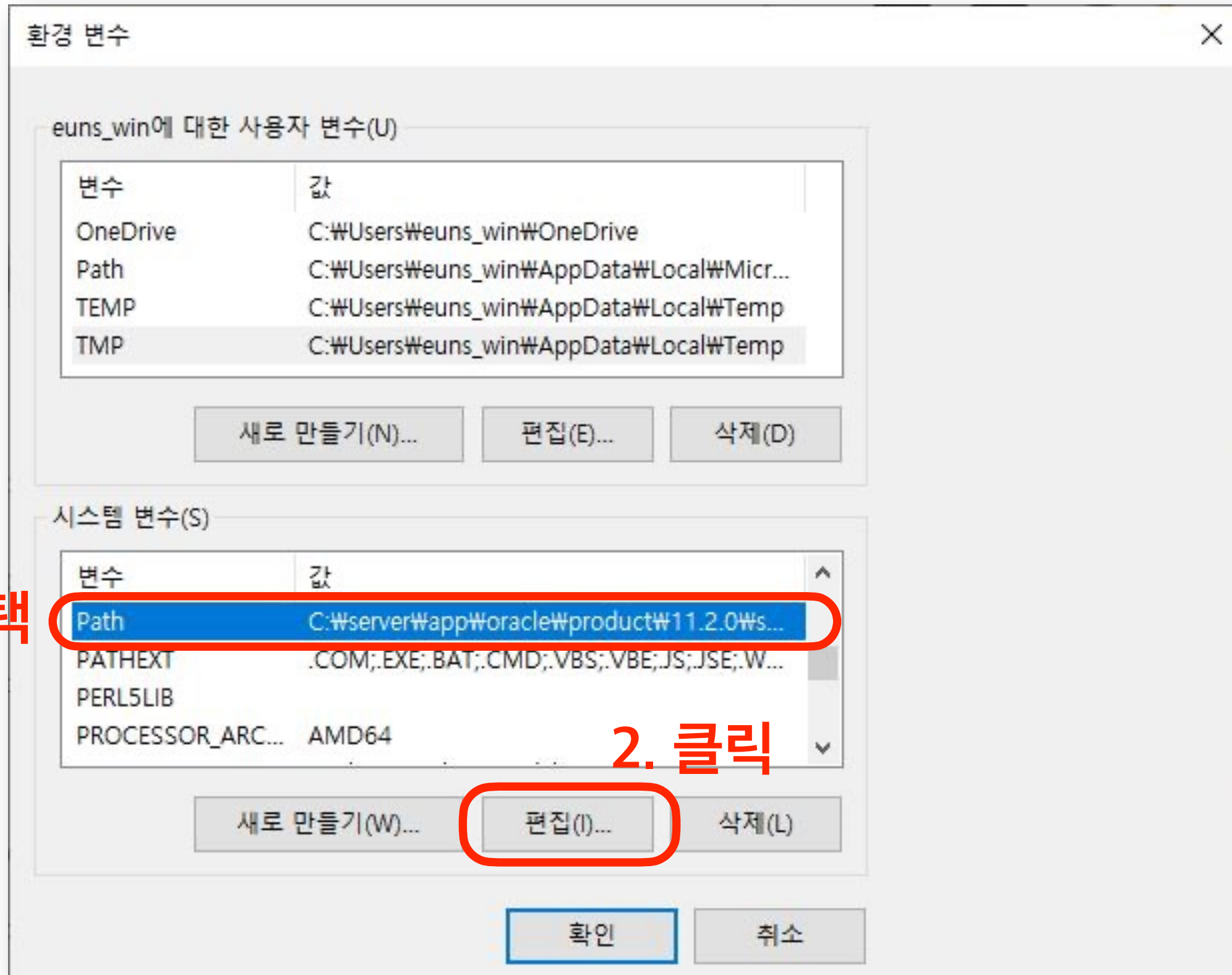
변수 이름(N): MVN_HOME

변수 값(V): C:\app\apache-maven-3.8.4

디렉터리 찾아보기(D)... 파일 찾아보기(F)... 확인 취소

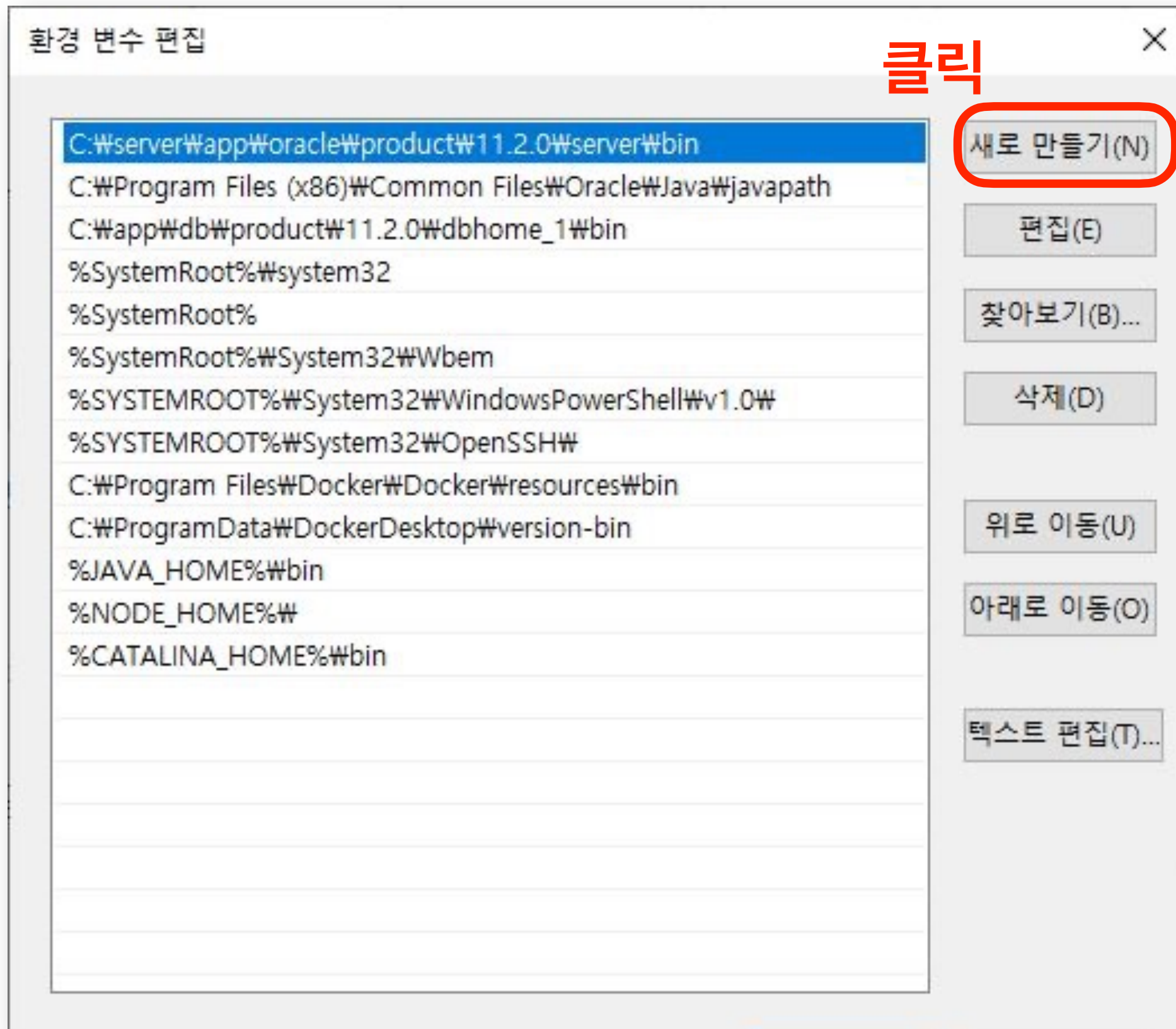
❖ 시스템 변수를 만들었으면 Path에 추가해준다.

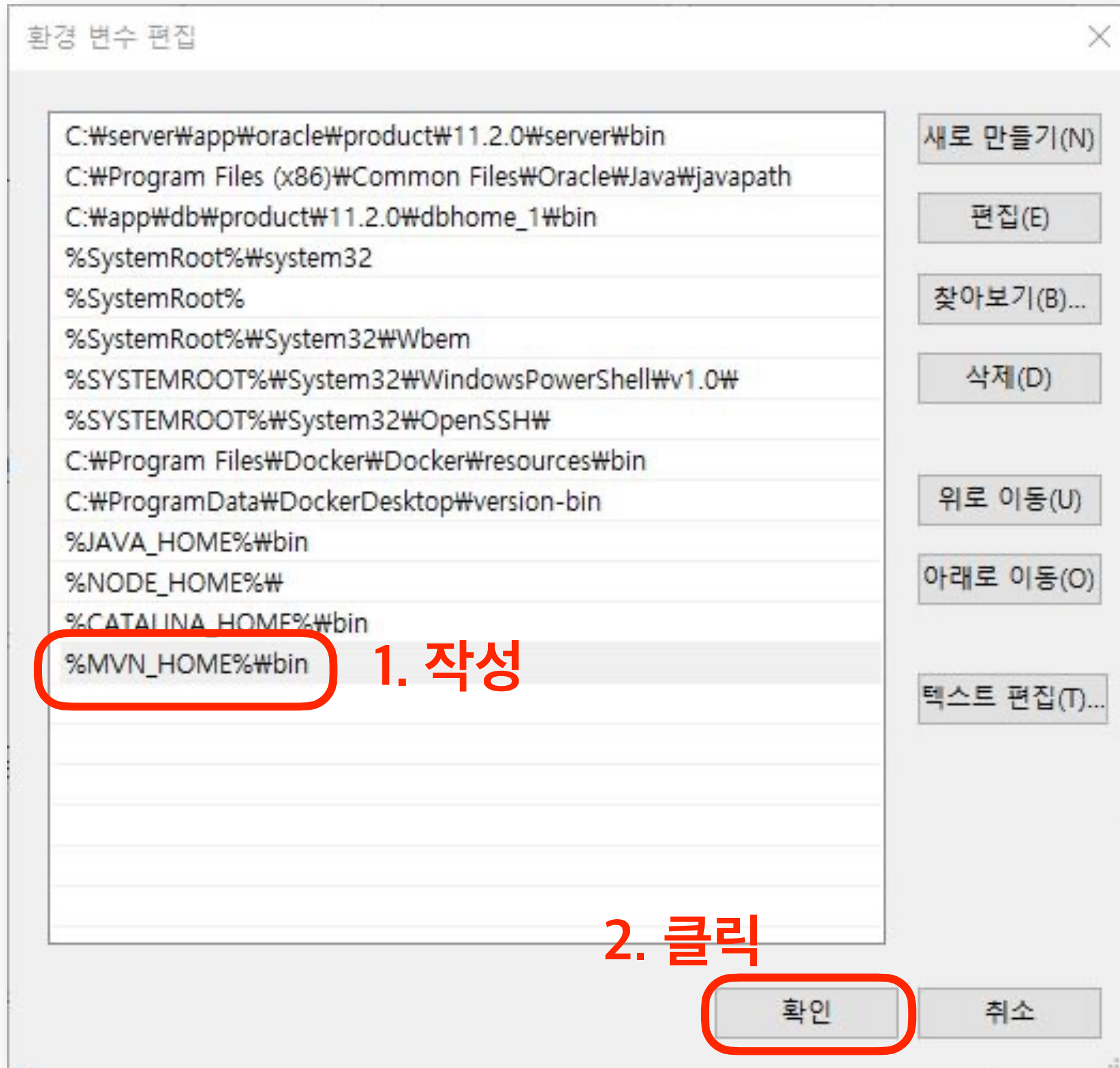
1. 선택



2. 클릭

- ❖ Path 환경변수 편집창이 띄워지면 메이븐 경로를 추가해준다.





- ❖ 환경변수를 만들고 Path에 경로를 등록한 후 CMD 창을 띄워서 메이븐 버전을 확인한다.

명령]

mvn --version



```

C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19042.1288]
(c) Microsoft Corporation. All rights reserved.

C:\Users\weuns_win>mvn --version
Apache Maven 3.8.4 (9b656c72d34e5baced989b64718c159fe39b537)
Maven home: C:\app\apache-maven-3.8.4
Java version: 1.8.0_311, vendor: Oracle Corporation, runtime: C:\Program Files\Java\jdk1.8.0_311\jre
Default locale: ko_KR, platform encoding: MS949
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"

C:\Users\weuns_win>
  
```