공통환경

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CONTENTS

NHN Academy

1. FE 개발환경
2. MySQL
3. Redis
4. Jenkins
5. SonarQube
6. GitHub 연동

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1. FE 개발환경

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Visual Studio Code 설치

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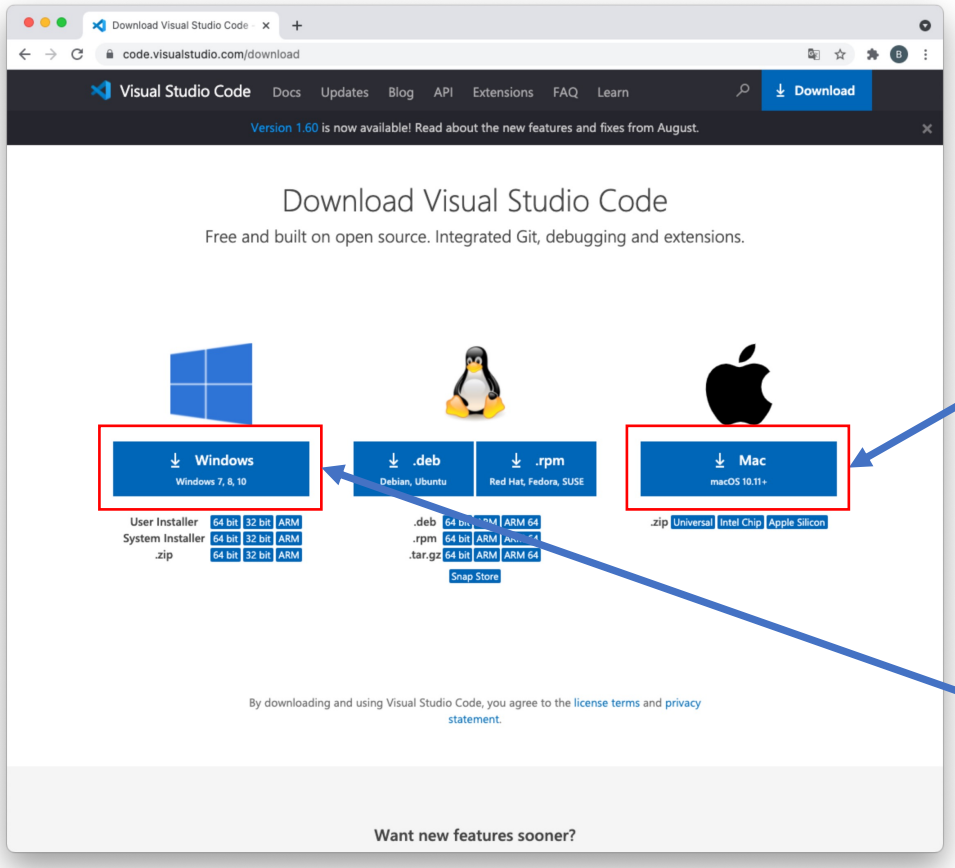
https://code.visualstudio.com/download



* Mac 환경

* Windows 환경

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Nodejs >= V.14 설치

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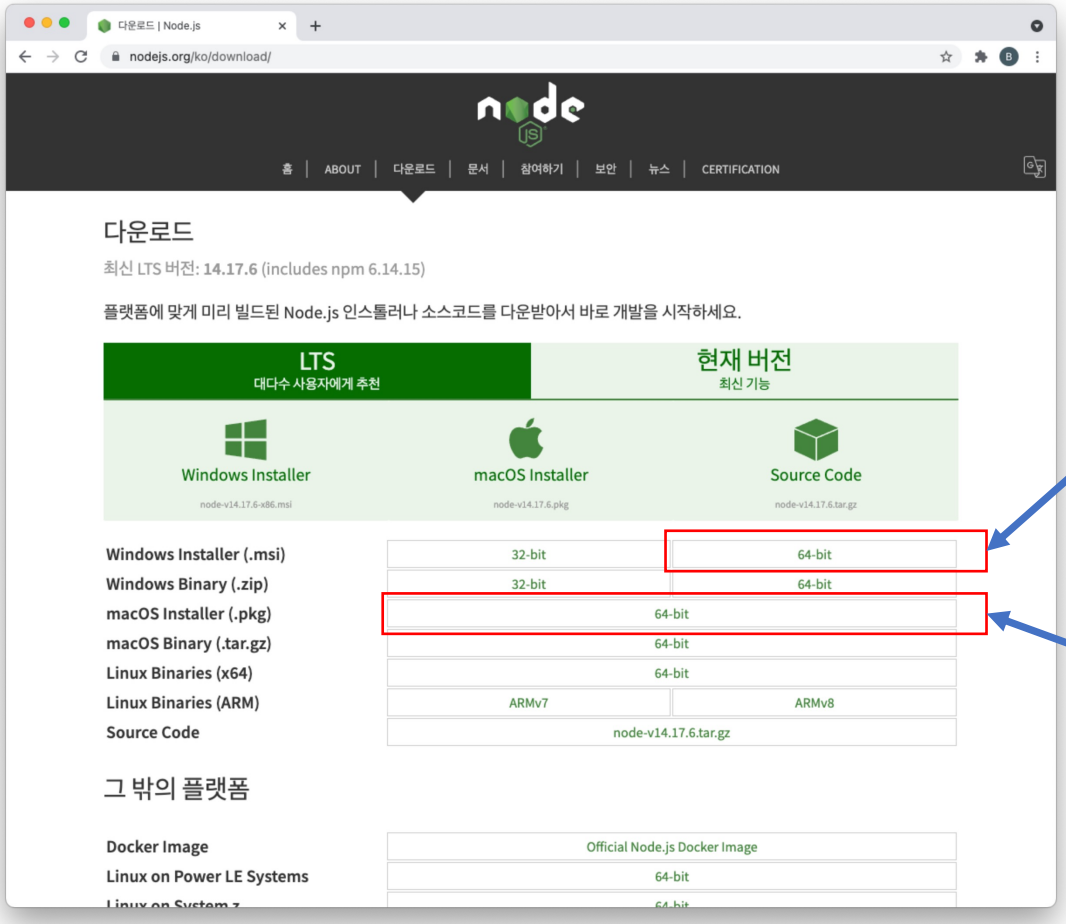
https://nodejs.org/ko/download/



* Windows 환경

* Mac 환경

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Chrome Browser 설치

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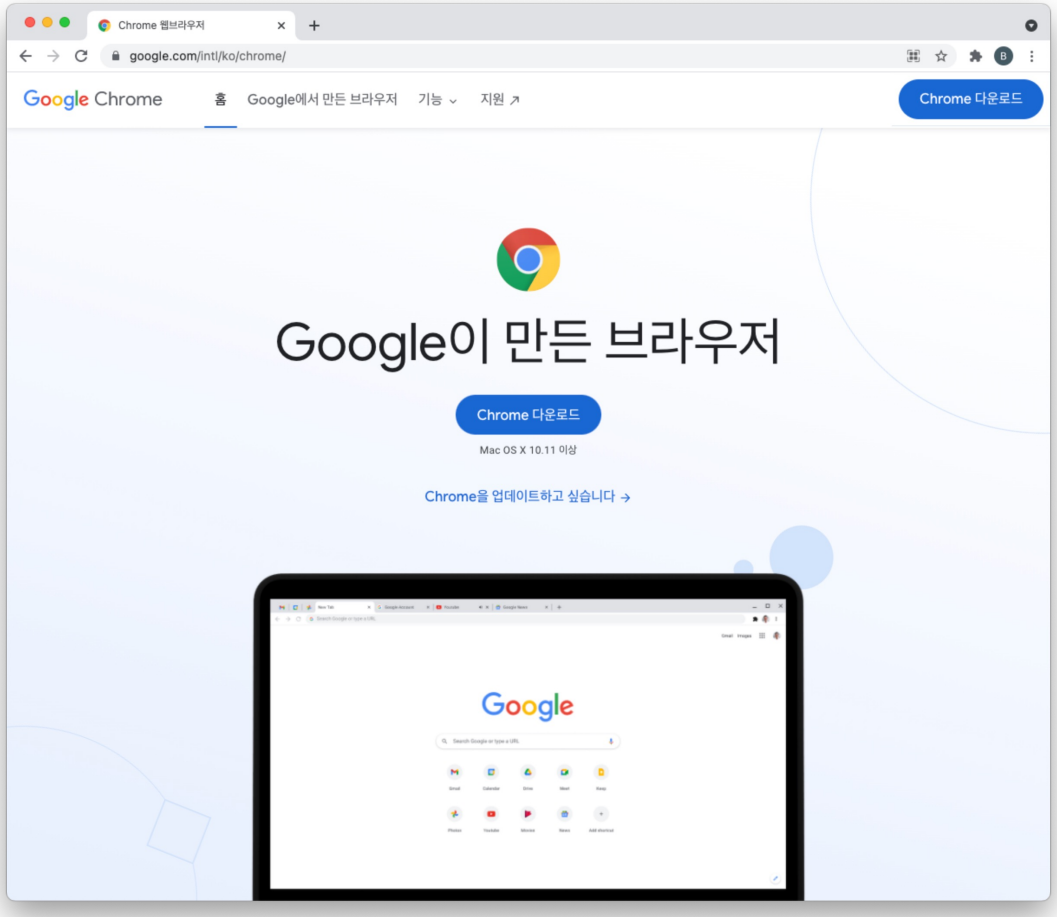
https://www.google.com/intl/ko/chrome/



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2. MySQL

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MySQL Workbench Download

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https://dev.mysql.com/downloads/workbench/

MySQL Community Downloads

MySQL Workbench

General Availability (GA) Releases | Archives

MySQL Workbench 8.0.26

Select Operating System:

macOS

Packages require Big Sur (11.1 or newer)

macOS (x86, 64-bit), DMG Archive	8.0.26	112.5M	Download
(mysql-workbench-community-8.0.26-macos-x86_64.dmg)	MD5: 8df1a79a97c4237f5ce0c2b8231d94ce | Signature		

We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download.

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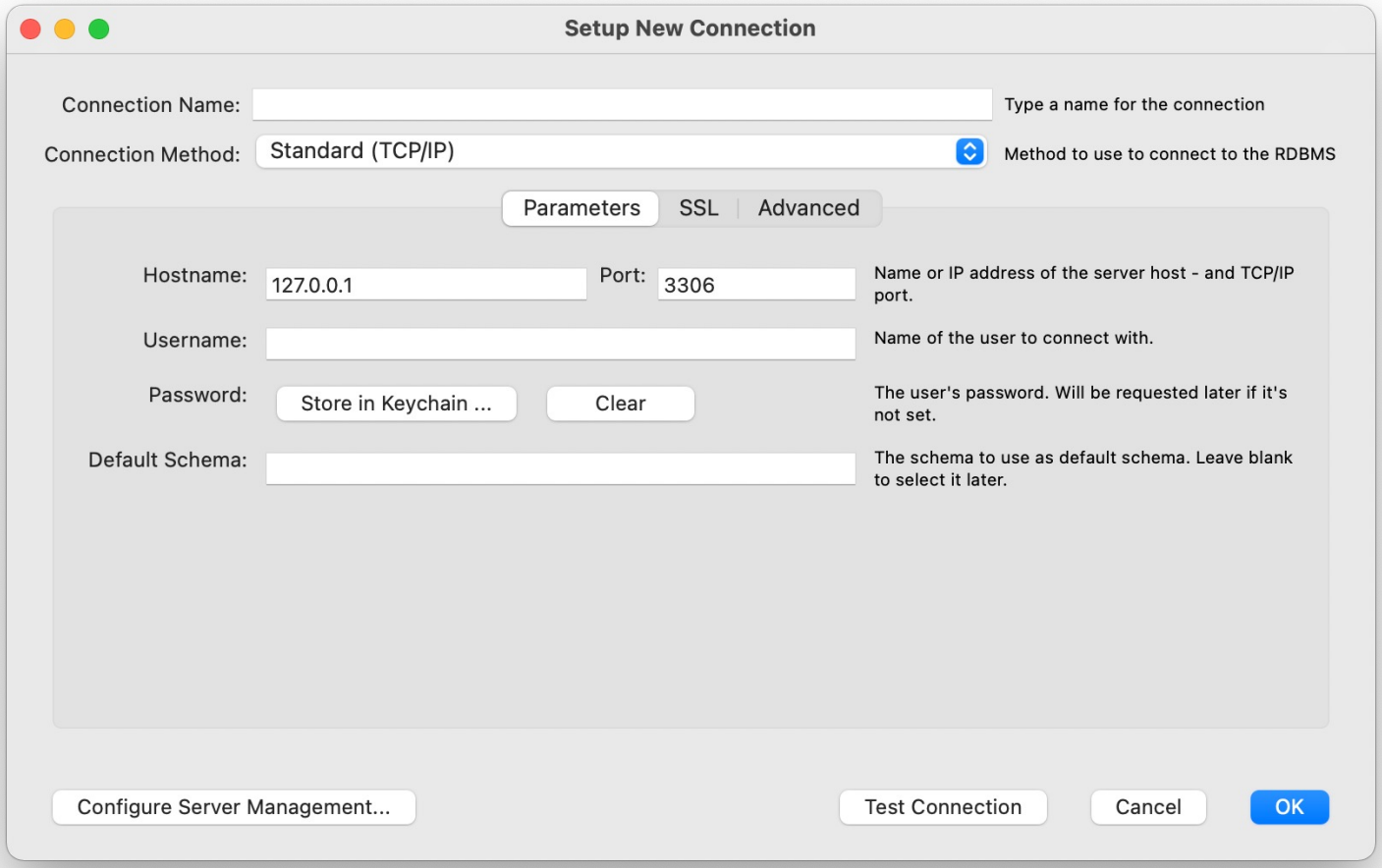
Connection



- Hostname : 133.186.151.141
- Port :3306
- Username : nhn_academy_번호
- Password. : password

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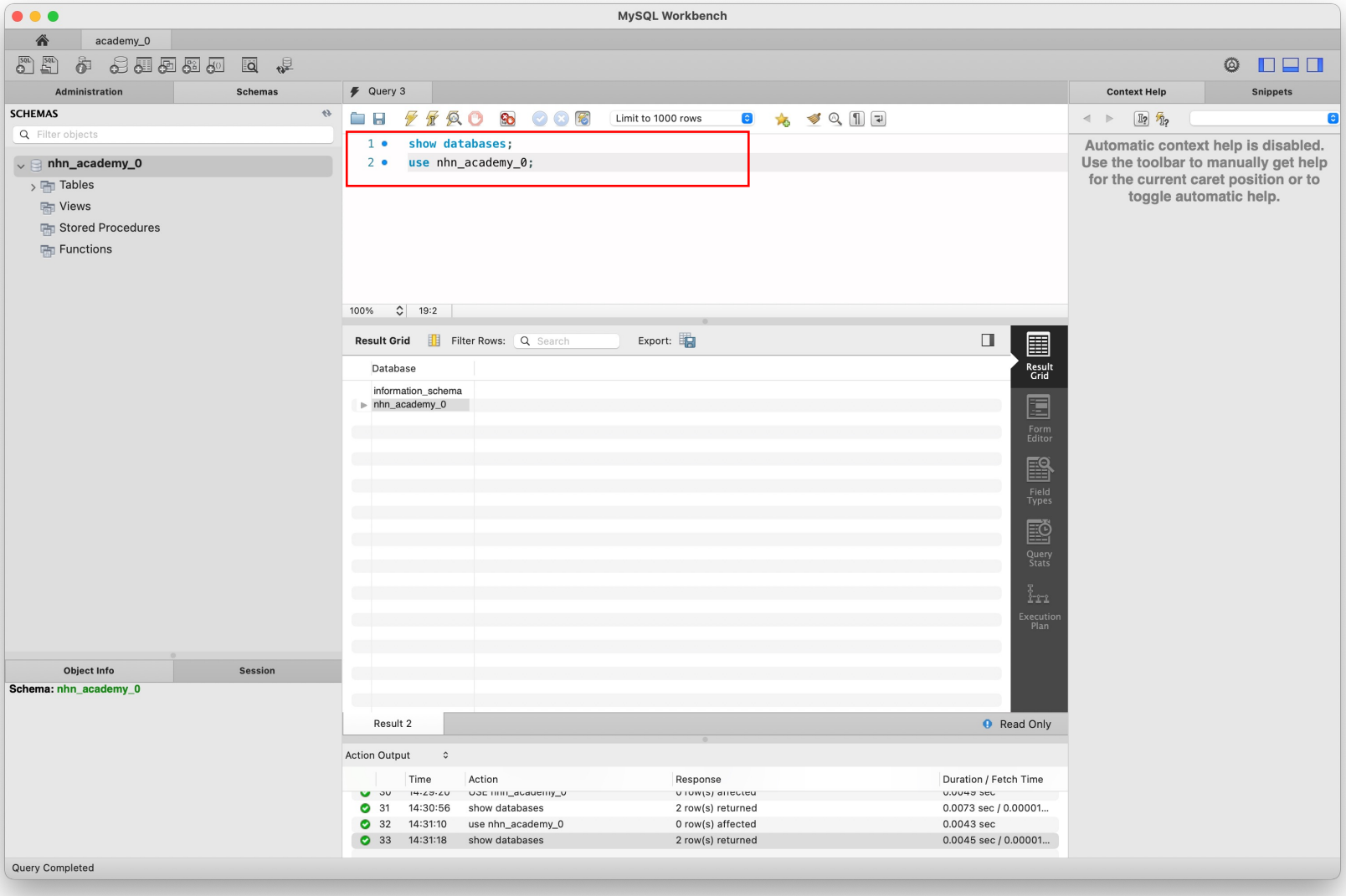
use & show command



* show databases;
  사용가능한 데이터베이스 목록

* use schemaName(dbName);
  사용할 데이터베이스 이름
  ex) use nhn_academy_0;

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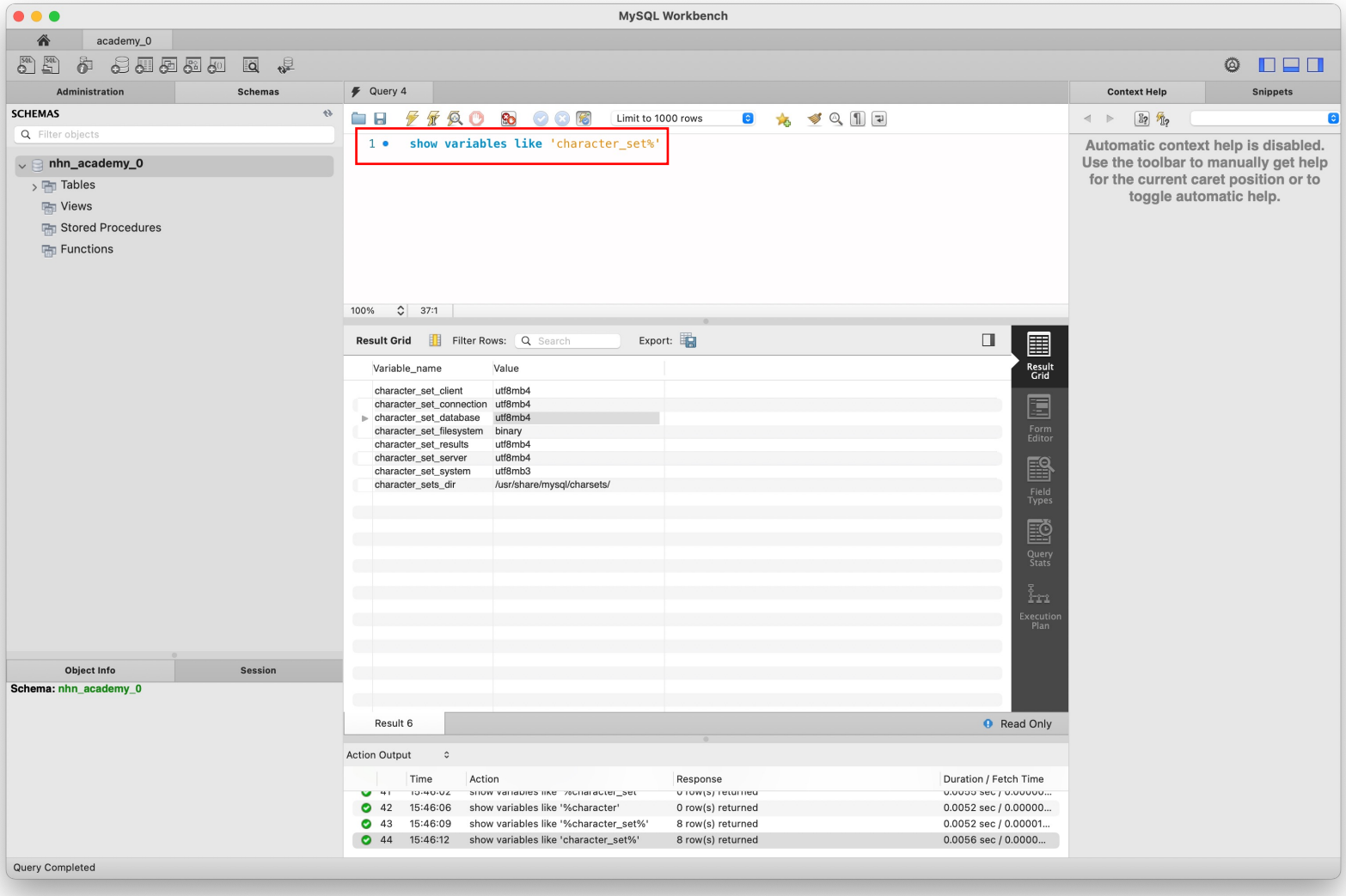
character_set



* utf8mb4

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utf8 vs utf8mb4

UTF-8은 유니코드의 데이터를 전송하기 위한 규격

유니코드는 전 세계의 모든 문자를 다루도록 설계된 표준 문자

UTF8	UTF8mb4
3byte	4byte
	이모지(😀⚽🍔)

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default storage engine : InnoDB

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MySQL Workbench

```
show variables like '%engine';
```

Variable_name	Value
default_storage_engine	InnoDB
default_tmp_storage_engine	InnoDB
internal_tmp_mem_storage_engine	TempTable
show_create_table_skip_secondary_engine	OFF
use_secondary_engine	ON

	Time	Action	Response	Duration / Fetch Time
36	14:55:10	show engines	9 row(s) returned	0.0068 sec / 0.00001...
37	14:55:26	show variables like 'engine'	0 row(s) returned	0.0091 sec / 0.00000...
38	14:55:32	show variables like '%engine'	5 row(s) returned	0.0055 sec / 0.00000...

Query Completed

* show variables like '%engine';

* Pluggable Storage Engines

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MyIsam vs InnoDB

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구분	MYISAM	INNODB
Locking(잠금)	Table 단위	Row 단위
Foreign Key(외래키)	X	O
ACID	X	O
Transactional	X	O
Reliability(안정성)	X	Transactional Log

· 원자성(Atomicity) : 트랜잭션과 관련된 작업들이 부분적으로 실행되다가 중단되지 않는 것을 보장
· 일관성(Consistency) : 트랜잭션이 실행을 성공적으로 완료하면 언제나 일관성 있는 데이터베이스 상태로 유지하는 것을 의미한다.
· 독립성(Isolation) : 트랜잭션을 수행 시 다른 트랜잭션의 연산 작업이 끼어들지 못하도록 보장한다.
· 지속성(Durability): 성공적으로 수행된 트랜잭션은 영원히 반영되어야 한다.

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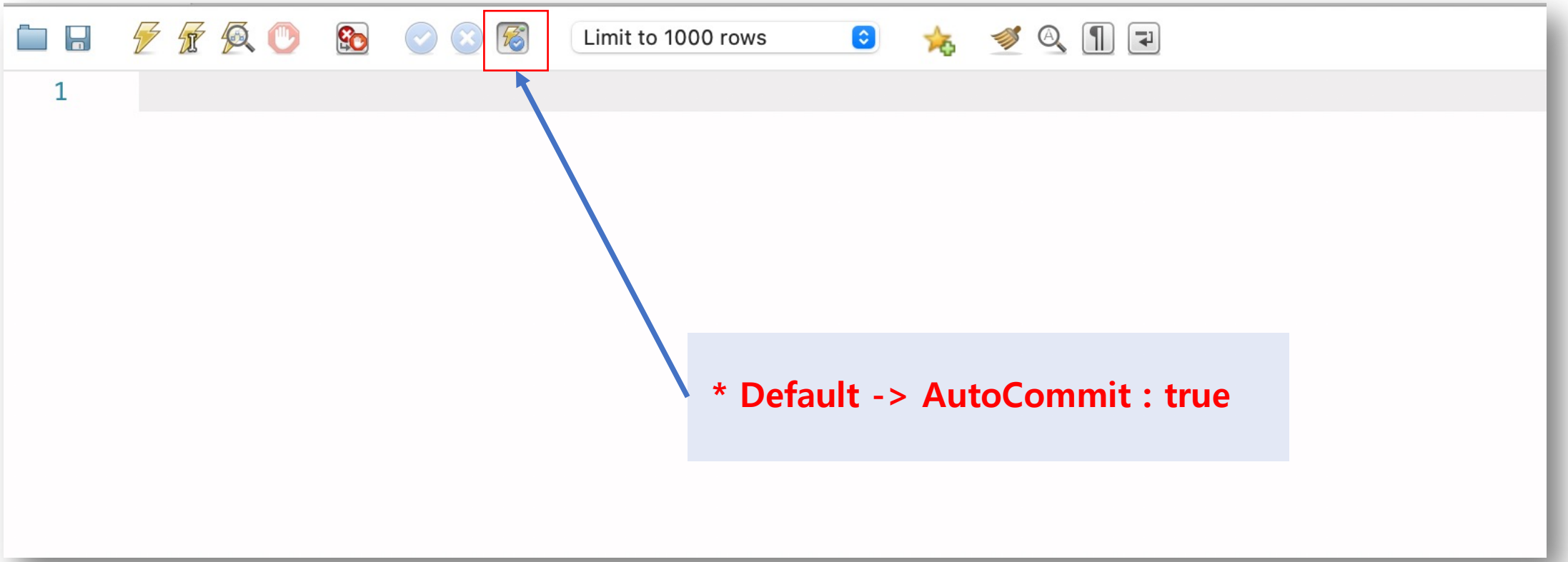
Auto Commit on/off



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phpMyAdmin - Web based mysql tool

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http://133.186.151.141:18080

· Username : nhn_academy_번호
· Password. : password

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3. Redis

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P3X-Redis-UI Download

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https://www.electronjs.org/apps/p3x-redis-ui

P3X Redis UI

A very functional handy database GUI and works in your pocket on the responsive web or as a desktop app.

Website
corifeus.com/redis-ui

Repository
github.com/patrikx3/redis-ui

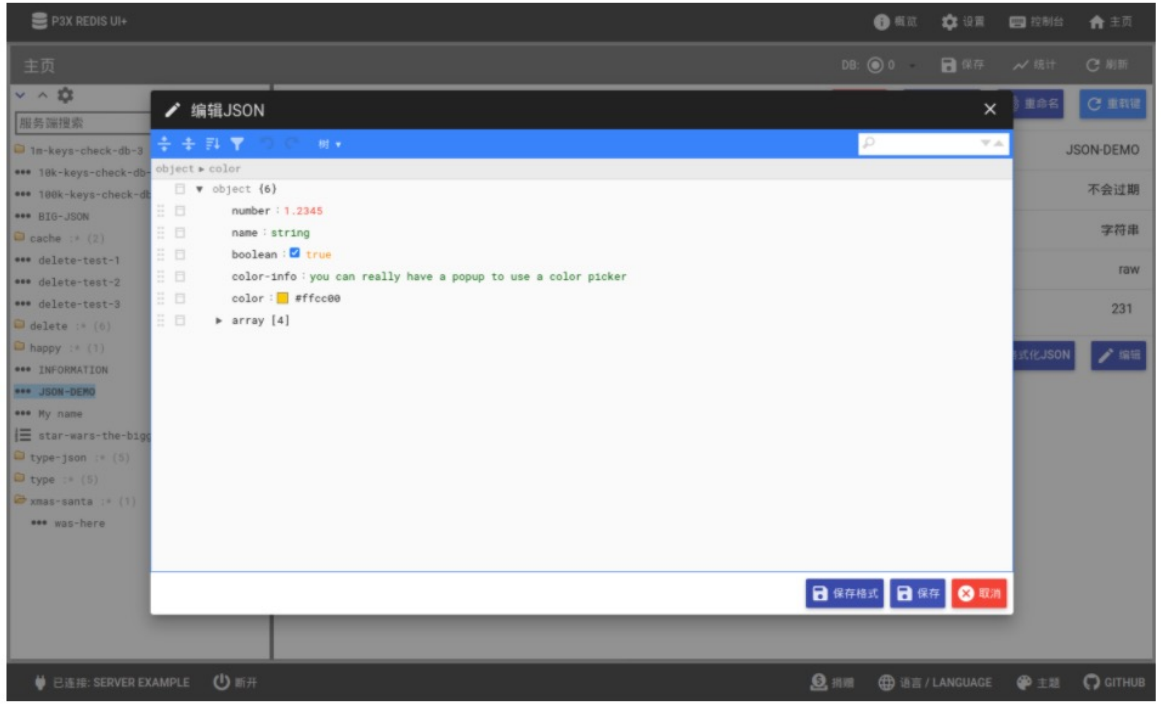
Category
Developer Tools

Downloads (v2021.10.101)
Download for macOS
View all 8 files

Keywords
redis ui admin gui dark theme internationalization

License
MIT

Latest Release



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Connection

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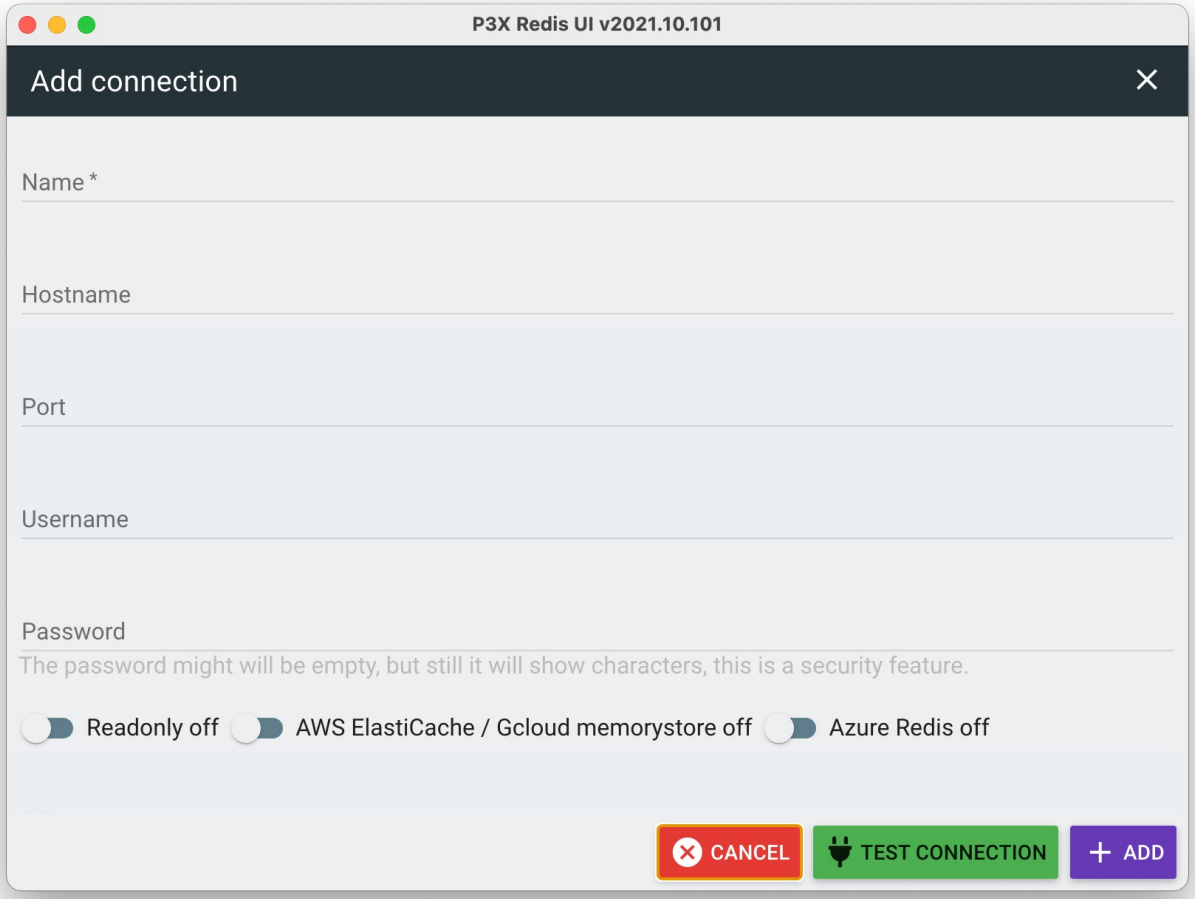
Settings > New Connection



- Hostname : 133.186.151.141
- Port :6379
- Username : Empty(공백처리)
- Password. : *N2vya7H@muDTwdNMR!

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4. Jenkins

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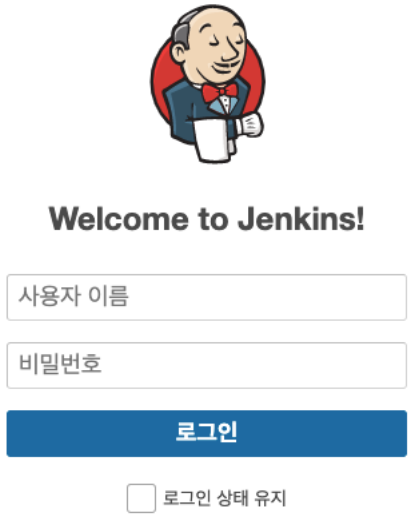
Login

NHN Academy

http://133.186.151.141:8080



- Hostname : 133.186.151.141
- Port :8080
- Username : nhn_academy_번호
- Password. : password

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[Mac] Public key & Private key 생성(RSA)

NHN Academy

Jenkins directory 생성 후 github 연동할 키 생성

```
sudo mkdir ~/jenkins

sudo ssh-keygen -t rsa -f ~/jenkins/github_rsa

cd ~/Jenkins

ls
```

-zsh ⌥⌘1

```
nhn@AL01547764 jenkins % ls
github_rsa      github_rsa.pub
nhn@AL01547764 jenkins %
```

-zsh ⌥⌘1

```
nhn@AL01591468 jenkins % sudo ssh-keygen -t rsa -f ~/jenkins/github_rsa

Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase): Enter
Enter same passphrase again: Enter
Your identification has been saved in /Users/nhn/jenkins/github_rsa.
Your public key has been saved in /Users/nhn/jenkins/github_rsa.pub.
The key fingerprint is: Enter
SHA256:IBJnLfngP2ZgWnvT0X/N3fCQygDXVcy3XL1RdPaJi5E root@AL01591468.local
The key's randomart image is: Enter
+---[RSA 3072]----+
|  . oo     . ..=O|
|   ++ . . . o .oX|
|  ...+.  + E ..oB|
|   .=.... o o =+ |
|   + + .S. = o *o|
|  . . B .   + . *|
|     + o     .   |
|                 |
|                 |
+----[SHA256]-----+
nhn@AL01591468 jenkins %
```

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[Windows 10] Public key & Private key 생성(RSA)

NHN Academy

Windows + R -> CMD 화면에 진입

```
mkdir c:\jenkins

ssh-keygen -t rsa -f  c:/jenkins/github_rsa

cd c:\Jenkins

dir
```

```
c:₩jenkins>dir
 C 드라이브의 볼륨: BOOTCAMP
 볼륨 일련 번호: 0246-9FF7

 c:₩jenkins 디렉터리

2021-08-09  오전 10:34    <DIR>          .
2021-08-09  오전 10:34    <DIR>          ..
2021-08-09  오전 10:34             2,602 github_rsa
2021-08-09  오전 10:34               569 github_rsa.pub
               2개 파일               3,171 바이트
               2개 디렉터리  111,179,042,816 바이트 남음

c:₩jenkins>_
```

```
-zsh                                                    ⌥⌘1
nhn@AL01591468 jenkins % sudo ssh-keygen -t rsa -f ~/jenkins/github_rsa

Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase): Enter
Enter same passphrase again: Enter
Your identification has been saved in /Users/nhn/jenkins/github_rsa.
Your public key has been saved in /Users/nhn/jenkins/github_rsa.pub.
The key fingerprint is: Enter
SHA256:IBJnLfngP2ZgWnvT0X/N3fCQygDXVcy3XL1RdPaJi5E root@AL01591468.local
The key's randomart image is: Enter
+---[RSA 3072]----+
|  . oo     . ..=O|
|   ++ . . . o .oX|
|  ...+.  + E ..oB|
|   .=.... o o =+ |
|   + + .S. = o *o|
|  . . B .   + . *|
|     + o     .   |
|                 |
|                 |
+----[SHA256]-----+
nhn@AL01591468 jenkins %
```

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Github – Deploy keys step1

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github > private repository > settings > Deploy keys

Code | Issues | Pull requests | Actions | Projects | Security | Insights | Settings

- Options
- Manage access
- Security & analysis
- Branches
- Webhooks
- Notifications
- Integrations
- Deploy keys
- Actions
- Secrets
- Pages

Deploy keys

Add deploy key

jenkins_public_key

`SHA256:Na28/ZZ4+zw6C7RR2A53Z15K64gzKBdy1G46InCfEjU`

Added on 26 Jul 2021 by **@visualp**

Last used within the last 3 weeks — Read-only

SSH

Delete

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Github – Deploy keys step2

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```
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQDk87LnzkkB792vh6if+3BY+yoeoKf1QUONm7QhK6Xz
qDUhDo1/AO249tgKoM2OwzCNe0IxLI2ocP1+0jVyPQTLA5QzkNdCz8LJlLtY1TxNWImlWnjrG5uXThre
B4BrUlhzXVLrYNQPcz+yrgToabqMaIYGyBXlik4hgq0Ufu73flm1qAnMirFSDsLsL1Hxt3zpRdqoY+kg
RBMhcKbPQix77keFpEraFHZeckuUJP/wqPqD2vcia0nKREgxlpFTuJcURd2i2oUw6QkM1AYX5wLuT15F
jJEkYwsVMc5iHirHXRUAJzgyMpMZ9DyeNV8uG/RMQ916i2sGbjQDll7y9eS4Jv+RmB5VhSZZiLBV4atE
RirCy90x9c+/+9b+WXq1VCbP8Q8LToEsVmJ2GjIxfjD7qnTciUx/H7cdGLZPPD+LUOM/3B2CflBervnm
byj1O/6u8WFnSEP6zP6vo96rnsSdaxcYjXt+1R7kfIWnoY+RF0NVs6tzSNUFIf+tzgEMol8= root@AL
01547764.local
```

```
[mac]
 cat ~/jenkins/github_rsa.pub
```

Deploy keys / Add new

Title

Key

Begins with 'ssh-rsa', 'ecdsa-sha2-nistp256', 'ecdsa-sha2-nistp384', 'ecdsa-sha2-nistp521', 'ssh-ed25519', 'sk-ecdsa-sha2-nistp256@openssh.com', or 'sk-ssh-ed25519@openssh.com'

공개키(github.rsa.pub) 붙여넣기

☐ Allow write access

Can this key be used to **push** to this repository? Deploy keys always have pull access.

Add key

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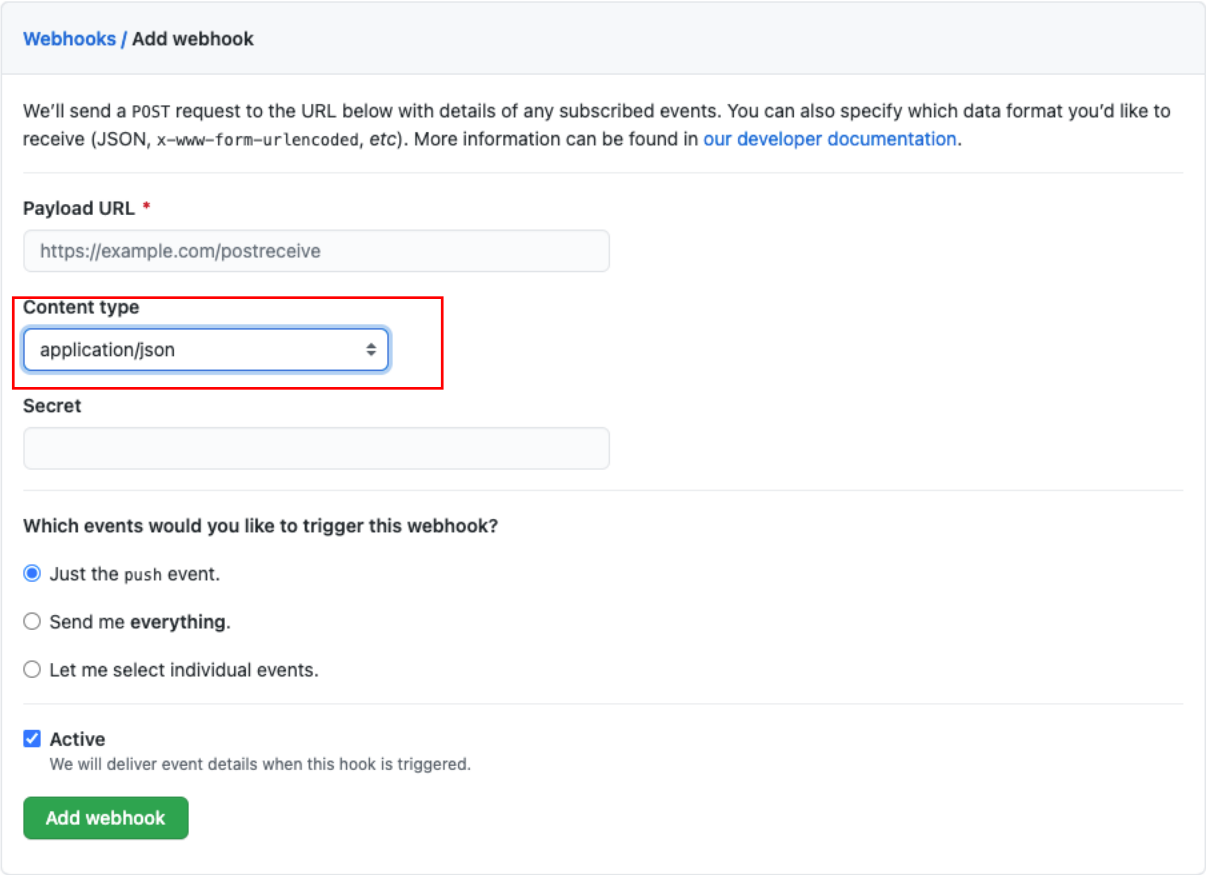
Github – Webhooks

github > private repository > settings >Webhook



[Payload URL]

http://133.186.151.141:8080/github-webhook/

[Content type]

application/json

[Secret]

empty(공백처리)

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Jenkins – Item 생성 step1

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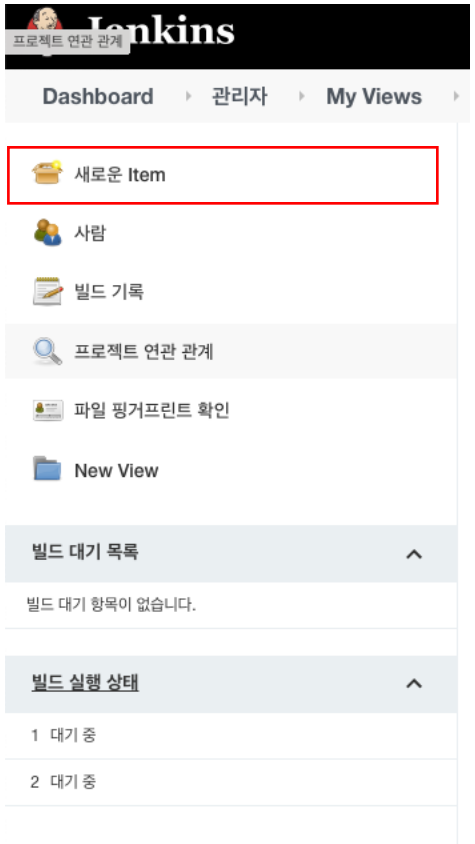

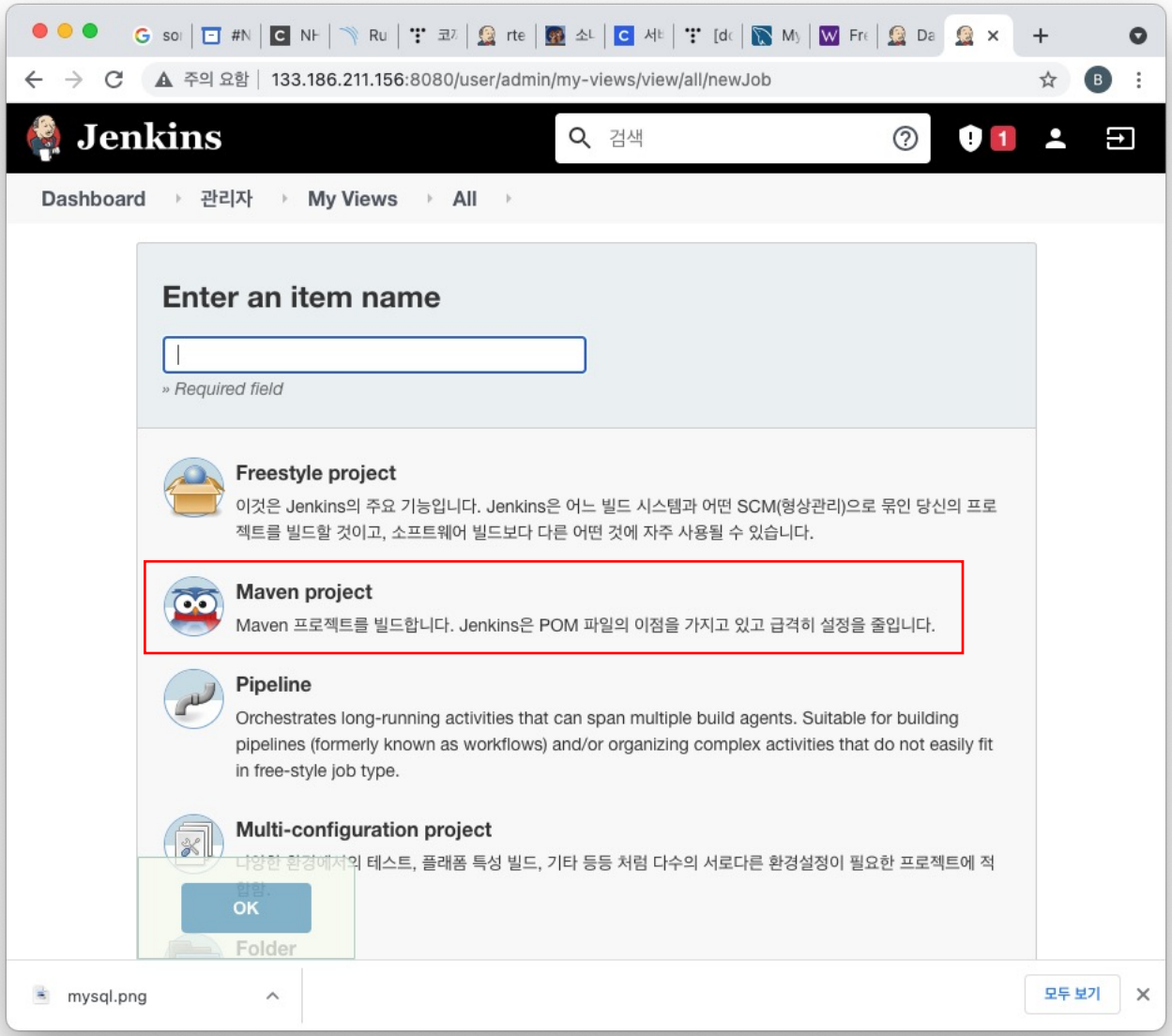

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Jenkins – Item 생성 step2

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test_project_0

General | 소스 코드 관리 | 빌드 유발 | 빌드 환경 | Pre Steps | Build | Post Steps | Build Settings | 빌드 후 조치

☑ Enable project-based security

Inheritance Strategy

Do not inherit permission grants from other ACLs

This object will **not** inherit the global security settings, or any permissions from its ancestors. Only permissions explicitly enabled here will be granted. To ensure that users are not inadvertently locked out from Jenkins, an exception is made for the **Overall/Administer** permission: Administrators of Jenkins will still have access to this object even if not explicitly granted here.

User/group	Credentials					Job								Run			SCM
	Create	Delete	ManageDomains	Update	View	Build	Cancel	Configure	Delete	Discover	Move	Read	Workspace	Delete	Replay	Update	Tag
Anonymous Users	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Authenticated Users	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
nhn_academy_0	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑

Add user or group...

☑ GitHub project

Project url

https://github.com/visualp/rtest

아이디(MY ID or Team Member ID) 해당 Job 접근할 수 있도록 설정하기

* **check all !**

* **My ID or Team Member ID**
ex) nhn_academy_0

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Jenkins – 소스 코드 관리

NHN Academy

General | 소스 코드 관리 | 빌드 유발 | 빌드 환경 | Pre Steps | Build | Post Steps | Build Settings | 빌드 후 조치

소스 코드 관리

None

Git

Repositories

[Repository URL]
SSH 주소를 사용 합니다.

Repository URL

git@github.com:visualp/rtest.git

Failed to connect to repository : Command "/usr/bin/git ls-remote -h -- git@github.com:visualp/rtest.git HEAD" returned status code 128:
stdout:
stderr: git@github.com: Permission denied (publickey).
fatal: Could not read from remote repository.

Please make sure you have the correct access rights and the repository exists.

Credentials

- none - | Add | Jenkins

고급...

Add Repository

master | 1 branch | 0 tags | Go to file | Add file | Code

고병만/CTO/ED UserVO 수정

src	UserVO 수정
.gitignore	first commit
README.md	first commit
pom.xml	porm 수정

README.md

#first commit

- rest test

Clone

HTTPS SSH GitHub CLI

git@github.com:visualp/rtest.git

Use a password-protected SSH key.

Open with GitHub Desktop

Download ZIP

github repository > Code > SSH

Github Repository URL

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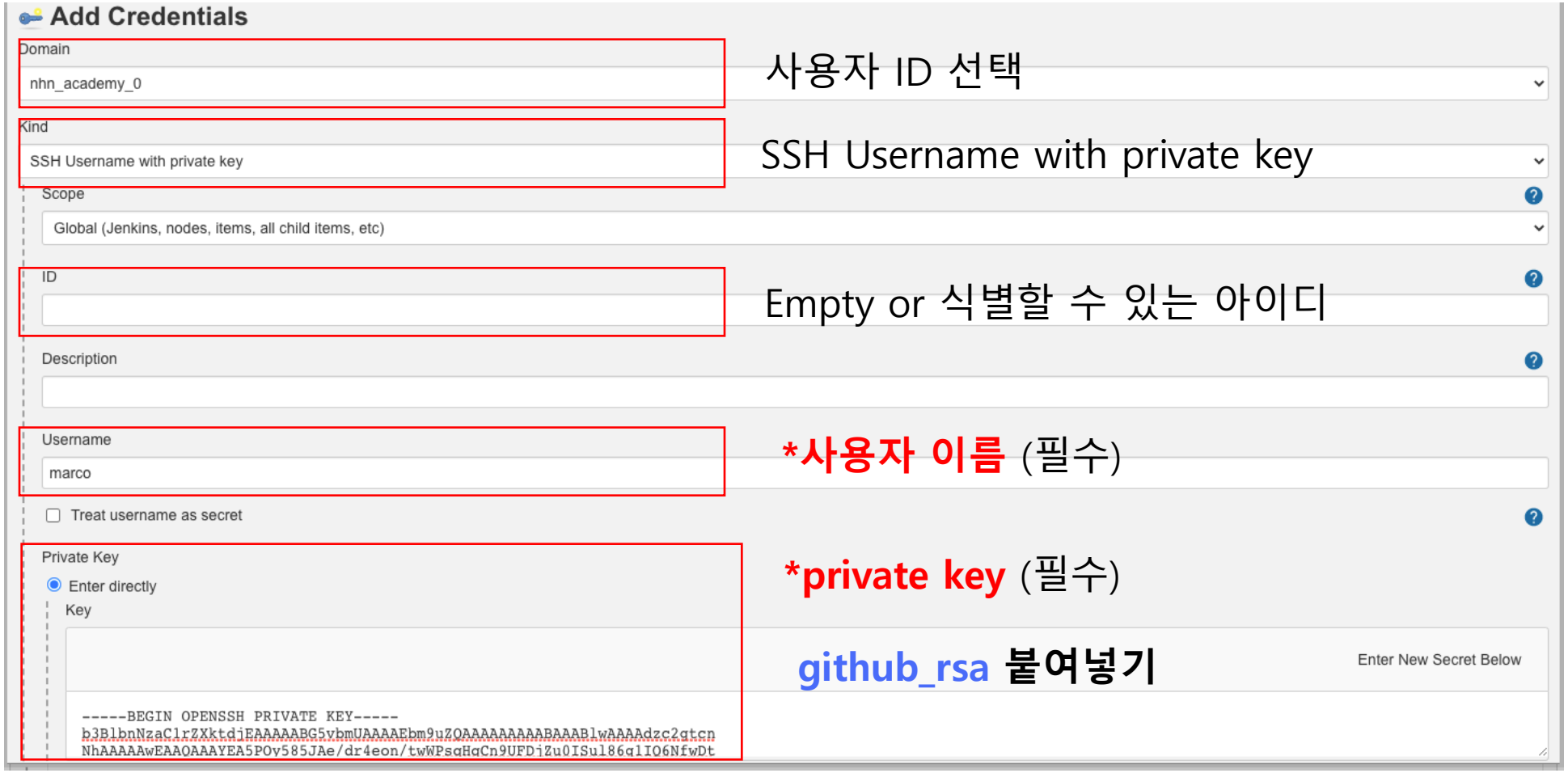
Jenkins Credentials 추가



사용자 ID 선택

SSH Username with private key

Empty or 식별할 수 있는 아이디

***사용자 이름** (필수)

***private key** (필수)

github_rsa 붙여넣기

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Jenkins github 연결확인

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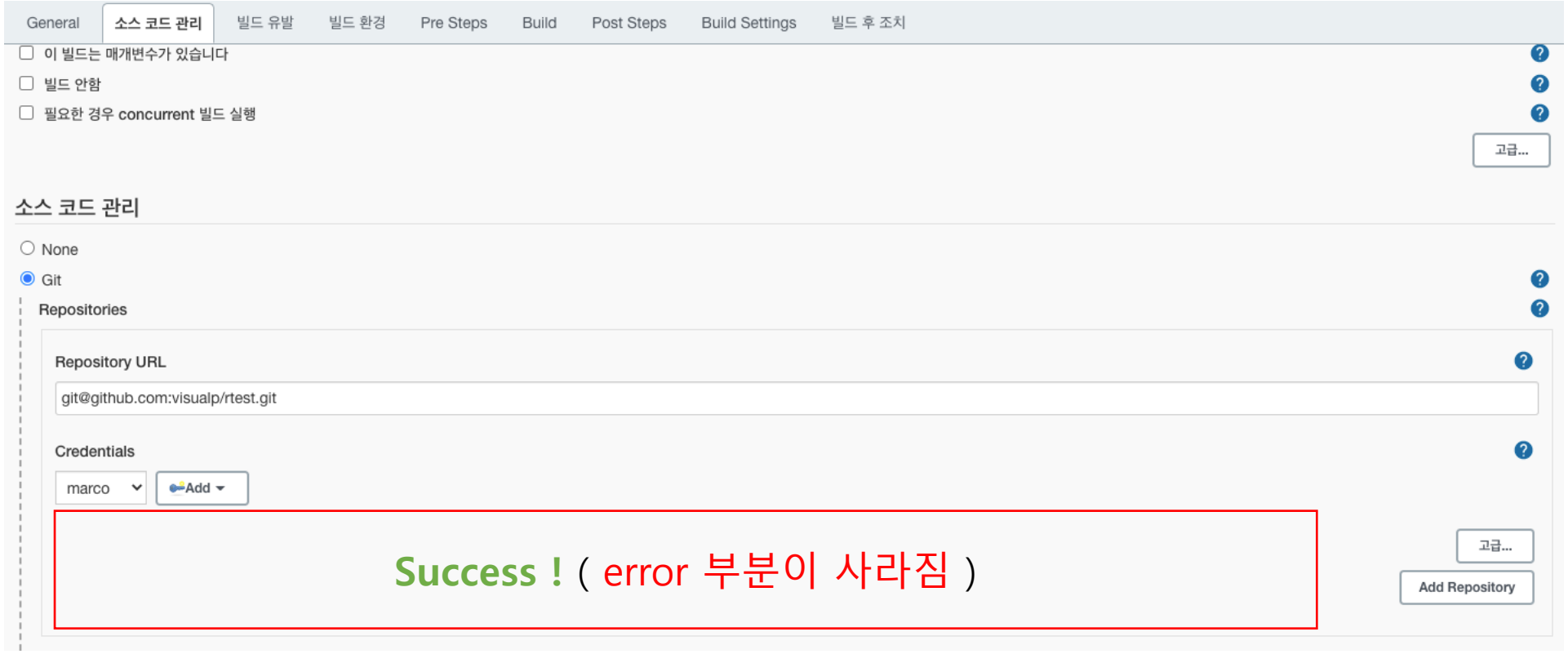

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Jenkins 빌드유발

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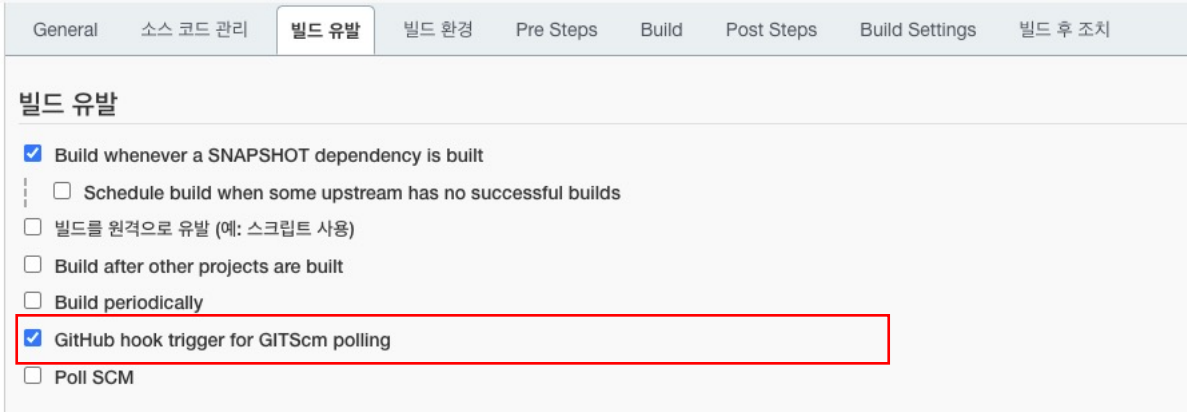
GitHub hook trigger for GITScm polling 체크

Other branch > push > master branch > Jenkins build



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5. SonarQube

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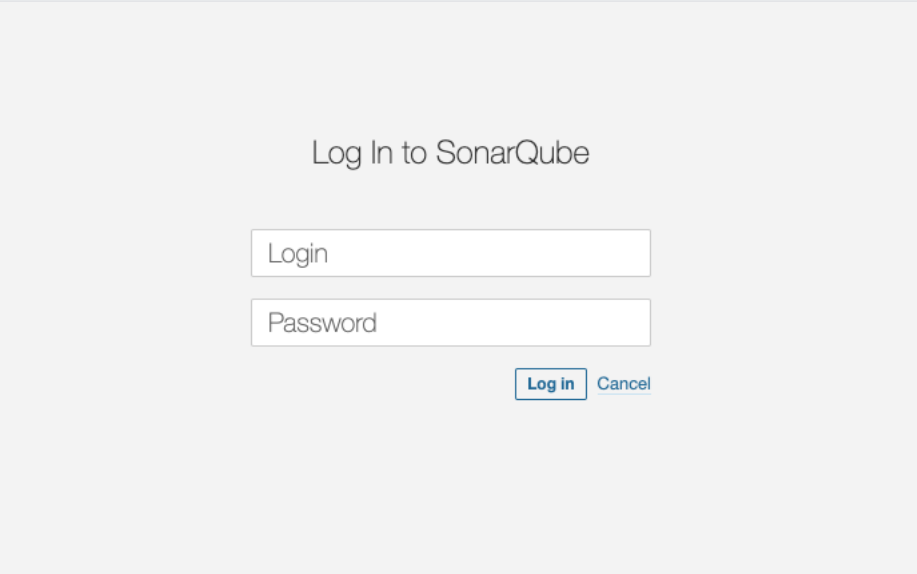
Login

NHN Academy

http://133.186.151.141:9000



- Hostname : 133.186.151.141
- Port :9000
- Username : nhn_academy_번호
- Password. : password

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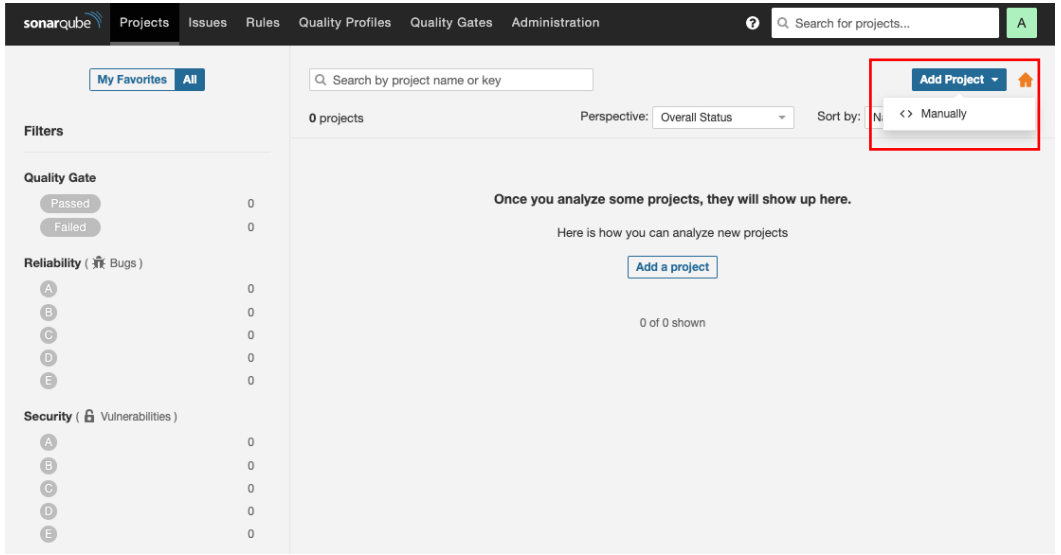
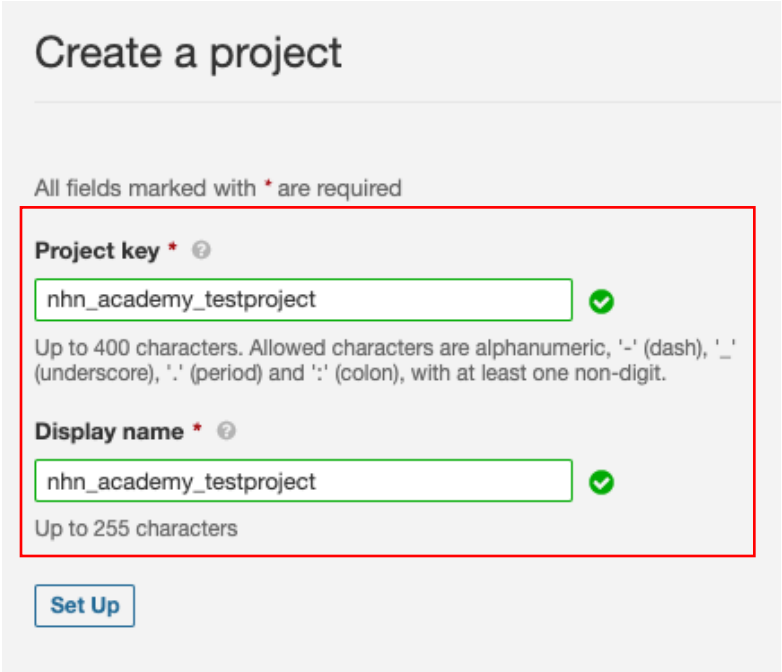
Create Project step1





* **Project Key**
Jenkis 연동 할 project key

* **Display name**
Jenkins 연동 project name

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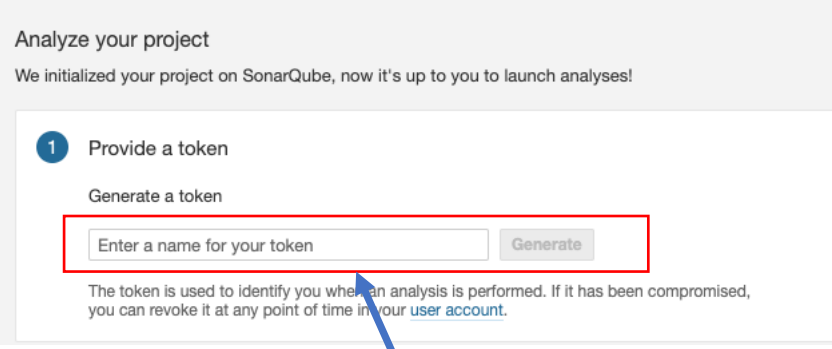
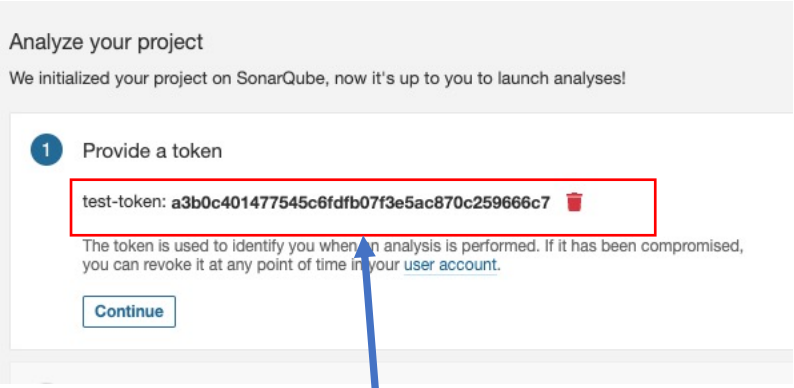
Create Project step2





* Project key 동일하게 입력
ex) nhn_academy_testproject

* Jenkins 연동할 token 입니다.
별도의 text 파일로 저장해 주세요!

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Jenkins 연동 step1

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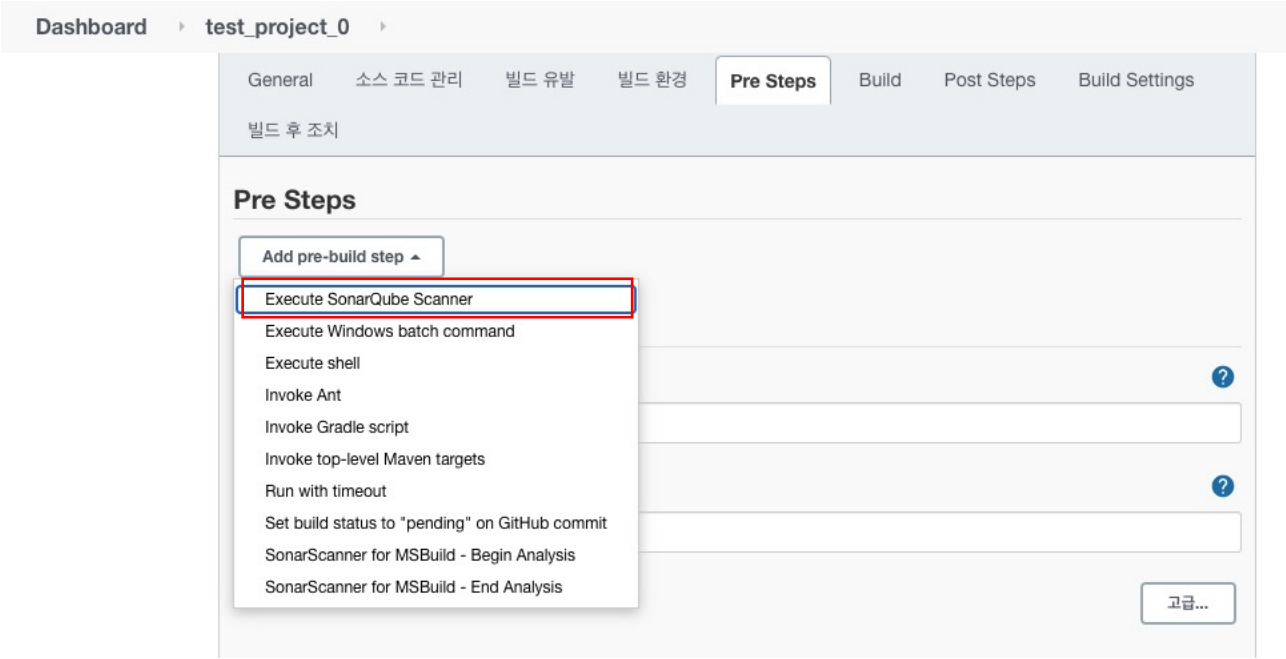
Jenkins > project > 구성 > Pre Steps(빌드 전 실행)



Execute SonarQube Scanner
선택 합니다.

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Jenkins 연동 step2

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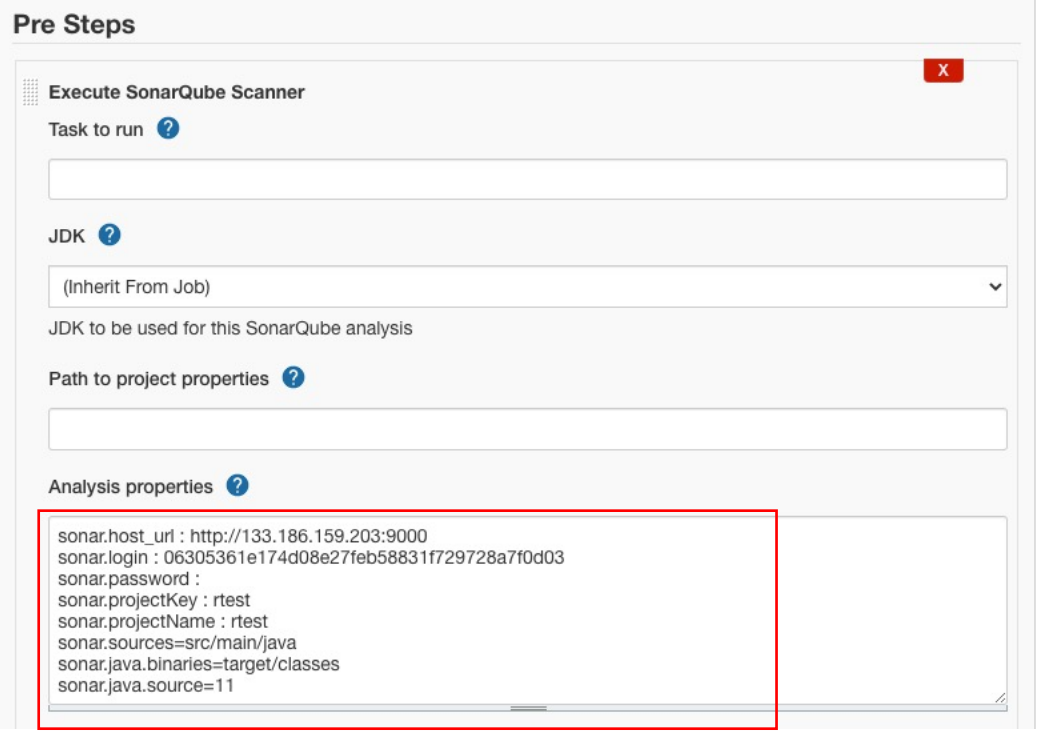


```
sonar.host_url : http://133.186.151.141:9000
sonar.login : 06305361e174d08e27feb58831f729728a7f0d03
sonar.password :
sonar.projectKey : rtest
sonar.projectName : rtest
sonar.sources=src/main/java
sonar.java.binaries=target/classes
sonar.java.source=11
```

sonar.login : SonarQube project token
sonar.prokectKey : SonarQube project key
sonar.projectName : SonarQube project name

나머지 값은 동일하게 입력합니다.

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Jenkins 연동 step3

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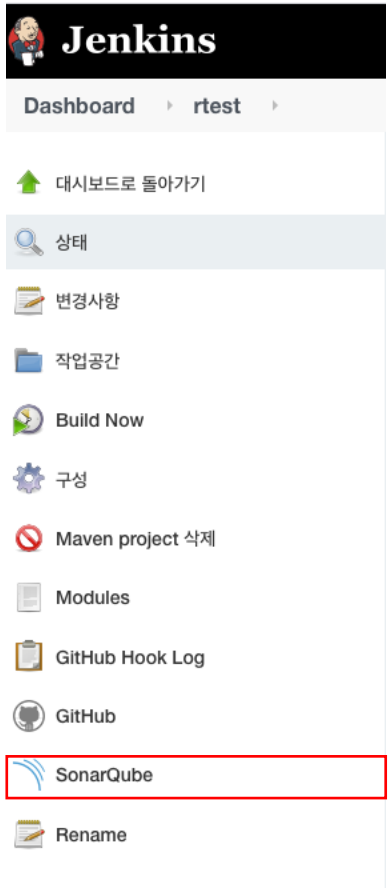

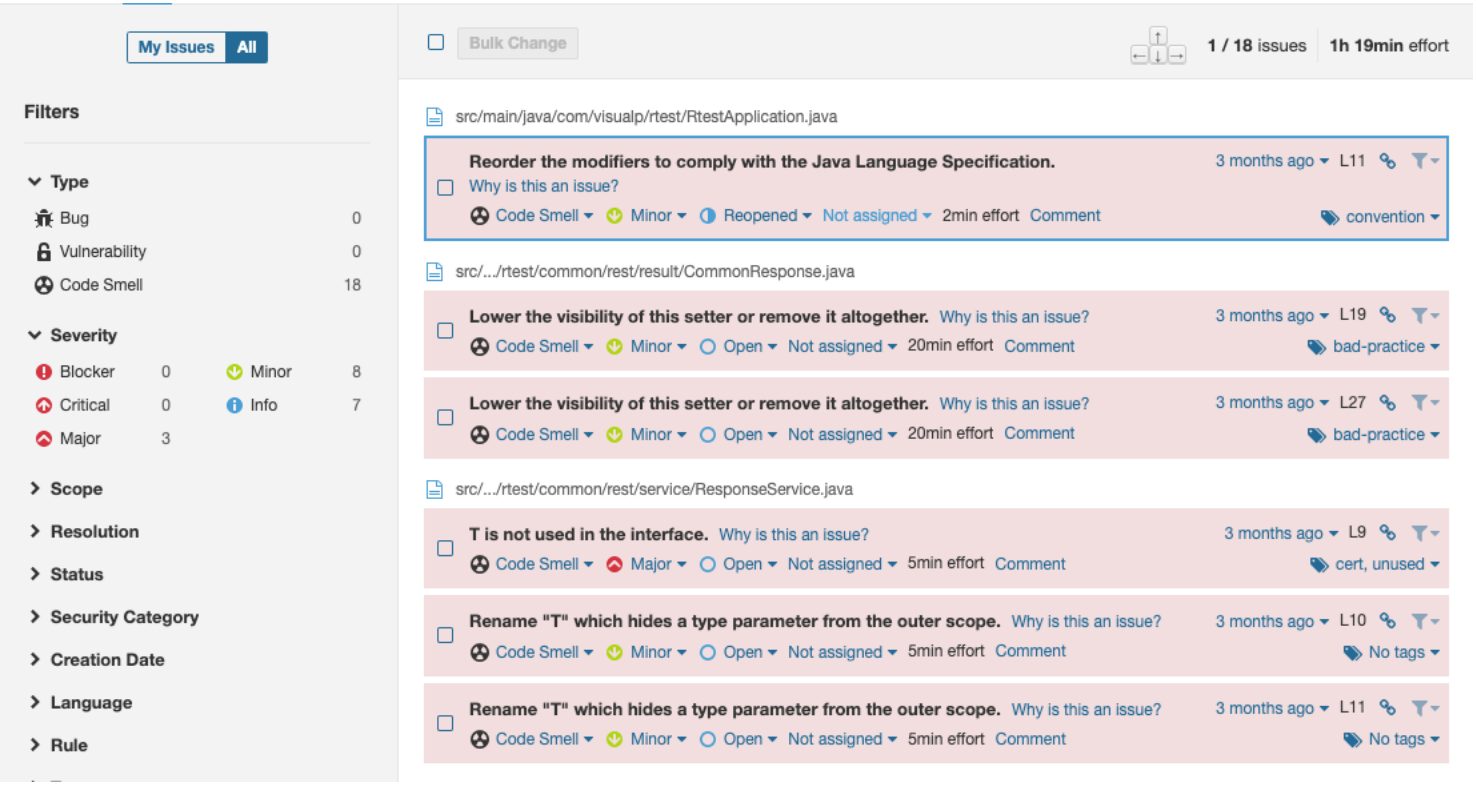

활성화된 SonarQube 메뉴를 클릭하면
분석된 결과를 확인할 수 있습니다.

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Intellij SonarLint 설치

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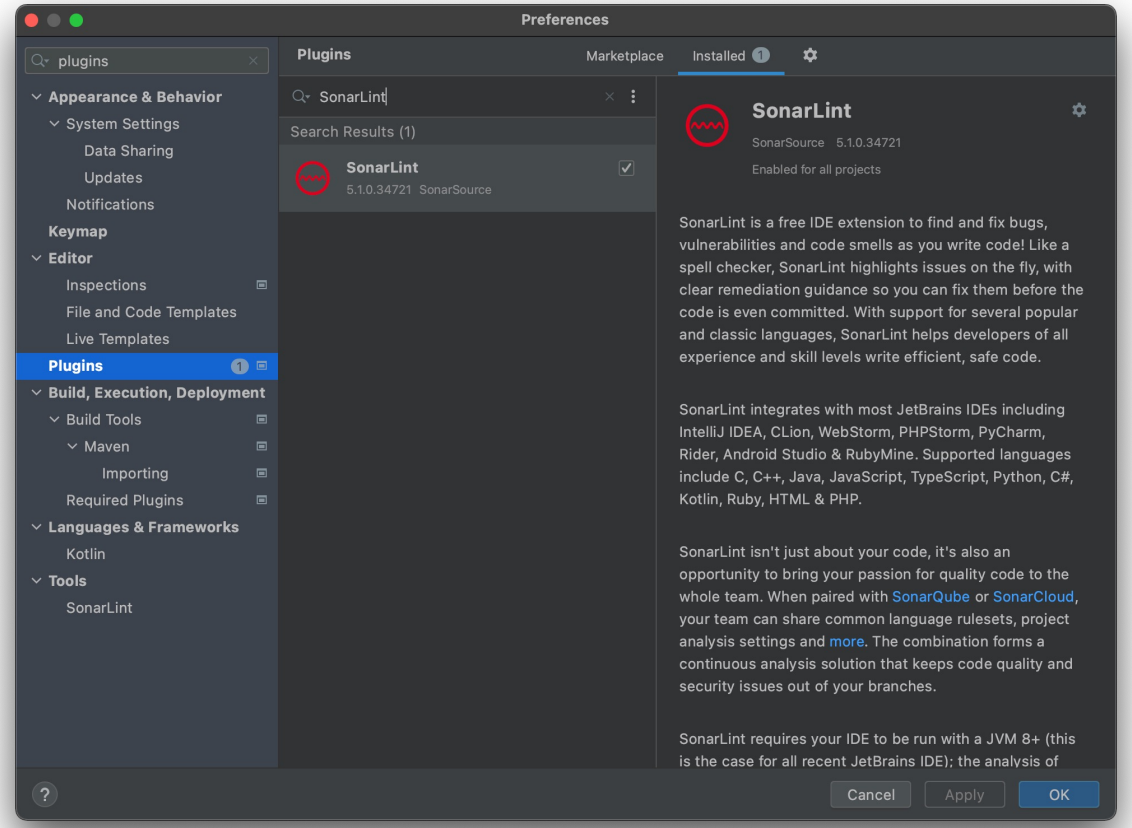
Intellij > Preferences > plugins > SonarLint



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Q&A

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감사합니다

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