

# **Auth0 + Spring Security**

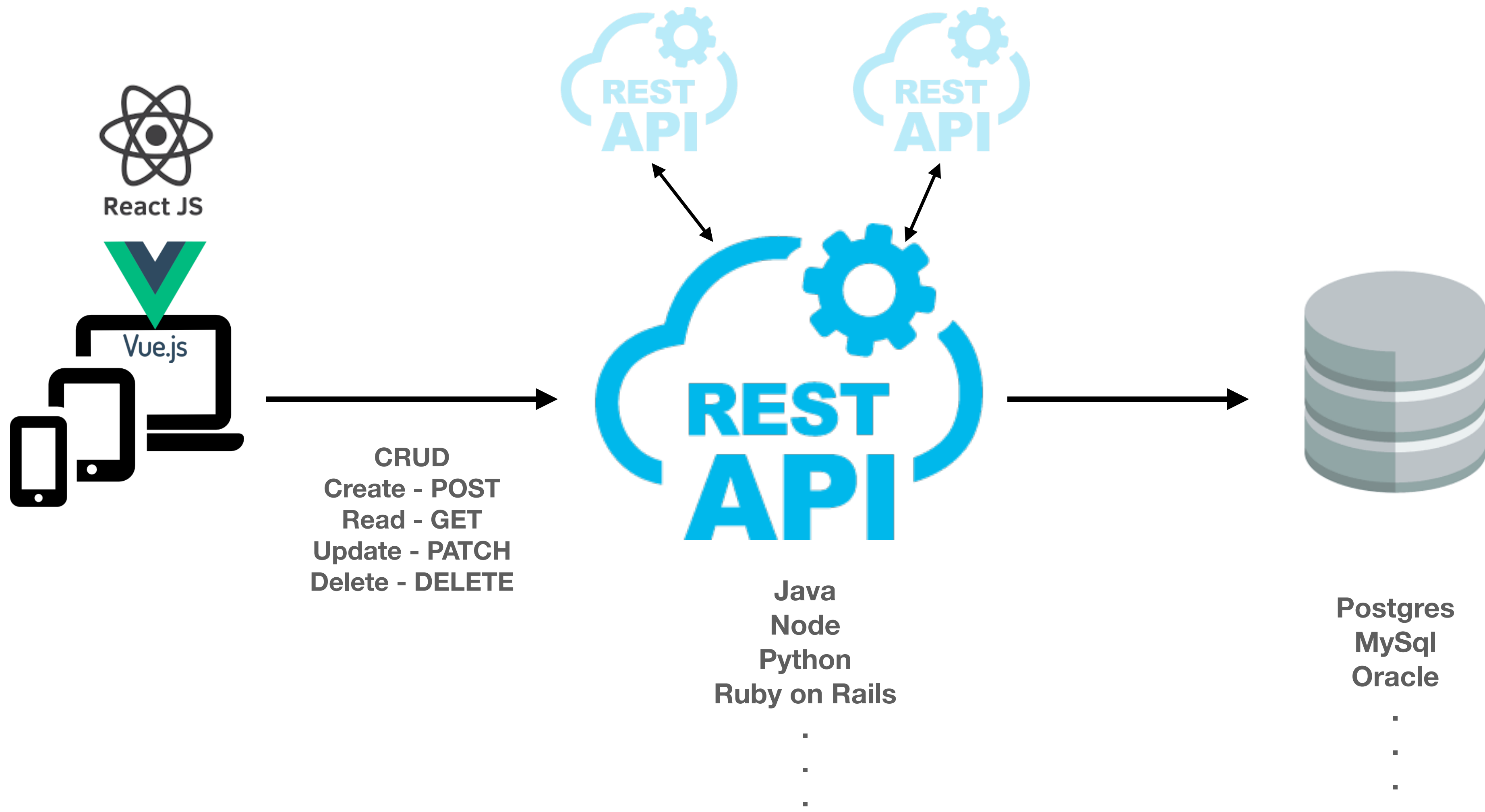
**2023.4.18 Kim DoHyung**

# Contents

- Rest API
- 認証・認可
- Spring Boot Install
- Auth0の設定
- Spring Securityの設定
- Postmanで実行

# Rest API

Representational State Transfer  
Application Programming Interface





# 認証・認可

Authentication : 認証 : 入場券

Authorization : 認可 : 乗車券



Authentication  
認証  
入場券




Authorization  
認可  
乗車券



# Spring Boot

<https://start.spring.io/>

 **spring** initializr

**Project**  
☒ Gradle - Groovy ☐ Gradle - Kotlin  
☐ Maven

**Language**  
☒ Java ☐ Kotlin ☐ Groovy

**Spring Boot**  
☐ 3.1.0 (SNAPSHOT) ☐ 3.1.0 (M2) ☐ 3.0.6 (SNAPSHOT) ☒ 3.0.5  
☐ 2.7.11 (SNAPSHOT) ☐ 2.7.10

**Project Metadata**  

Group

com.example

Artifact

spring-auth0

Name

spring-auth0

Description

Demo project for Spring Boot+Auth0

Package name

com.example.spring-auth0

Packaging

☒ Jar ☐ War

Java

☐ 20 ☒ 17 ☐ 11 ☐ 8

**Dependencies**

ADD DEPENDENCIES... ⌘ + B

**Spring Security** SECURITY  
Highly customizable authentication and access-control framework for Spring applications.

**Lombok** DEVELOPER TOOLS  
Java annotation library which helps to reduce boilerplate code.

**OAuth2 Client** SECURITY  
Spring Boot integration for Spring Security's OAuth2/OpenID Connect client features.

**Spring Web** WEB  
Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container.

**OAuth2 Resource Server** SECURITY  
Spring Boot integration for Spring Security's OAuth2 resource server features.

# Auth0設定

<https://auth0.com/>



# Auth0設定

<https://auth0.com/>

1. Applications > APIs > Create API
2. Applications > Applications > Create Application(Regular Web Applications)
3. 作成したApplication > Advanced Settings > Grant Types > Passwordをチェック
4. User Management > Roles作成
5. User Management > ユーザ作成&Role付与
6. Setting > General > API Authorization Settings > Default Directoryに「Username-Password-Authentication」を入力する
7. Auth Pipeline > Rulesの作成(Access TokenにユーザのRoleを取り込む処理)

# Auth0設定

← Back to Rules

## Edit Rule

⚠ We recommend you to explore Actions, our newest extensibility product now in General Availability. Actions gives you many of the same functions as Rules and more. Get started today in [Actions](#). [Learn more about Actions](#).

ℹ **Heads up!** If you are trying to access a service behind a firewall, make sure to open the right ports and allow inbound connections from these IP addresses: **46.51.243.250**, **54.248.192.141**, **54.150.87.80**

Name

Set Roles

Script

```
1  function (user, context, callback) {
2    const namespace = 'http://localhost:8080/';
3    const assignedRoles = (context.authorization || {}).roles;
4    context.accessToken[namespace + 'roles'] = assignedRoles;
5    return callback(null, user, context);
6  }
```

```
function (user, context, callback) {
  const namespace = 'http://localhost:8080/';
  const assignedRoles = (context.authorization || {}).roles;
  context.accessToken[namespace + 'roles'] = assignedRoles;
  return callback(null, user, context);
}
```

Save Changes

▶ Save And Try

🔌 Save And Install Real-Time Logs



# Postmanで実行

<https://www.postman.com/>



POSTMAN



# More..

- フロントエンド(React, VueJsなどとの連携)
- Access TokenとID Tokenの違い
  - <https://dev.classmethod.jp/articles/auth0-access-token-id-token-difference/>
- ソースコード
  - <https://github.com/Kim829/auth0-spring.git>



**Thank you**