Webflux
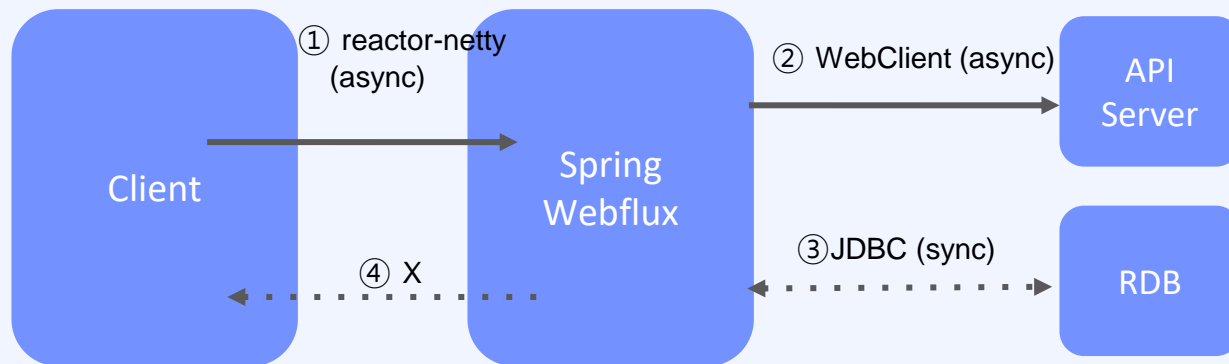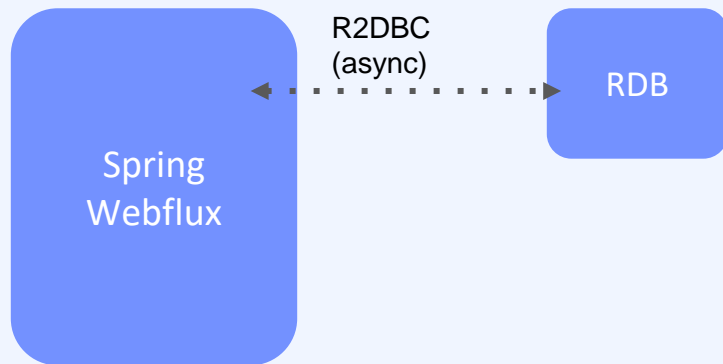
9 R2DBC 이론

R2DBC

R2DBC

Reactive
Relational DataBase Connectivity

R2DBC

- Asynchronous Database Access
- Reactive Stream
- Nonblocking I/O
- Open specification
    - H2, MariaDB, MySQL
    - Oracle, PostgreSQL, …

R2DBC
(async)

RDB

Spring
Webflux

https://r2dbc.io/

R2DBC

- SPI(Service Provider Interface)
- Drivers

https://spring.io/projects/spring-data-r2dbc

R2DBC

Spring-framework and R2DBC-SPI Compatibility

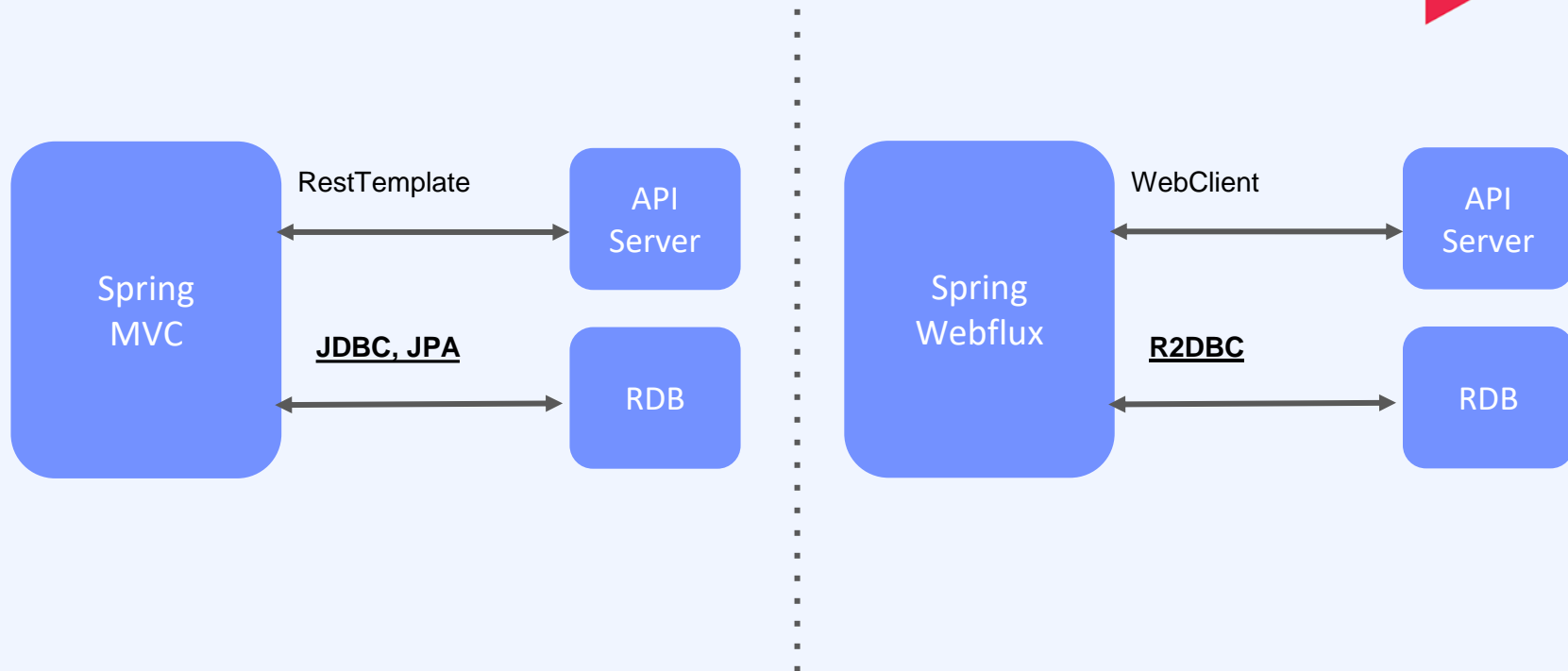Refer to the table below to determine the appropriate version of r2dbc-mysql for your project.

spring-boot-starter-data-r2dbc	spring-data-r2dbc	r2dbc-spi	r2dbc-mysql(recommended)
3.0.*	3.0.*	1.0.0.RELEASE	io.asyncer:r2dbc-mysql:1.0.2
2.7.*	1.5.*	0.9.1.RELEASE	io.asyncer:r2dbc-mysql:0.9.3
2.6.* and below	1.4.* and below	0.8.6.RELEASE	dev.miku:r2dbc-mysql:0.8.2

https://github.com/asyncer-io/r2dbc-mysql

Spring MVC
RestTemplate → API Server
JDBC, JPA → RDB

Spring Webflux
WebClient → API Server
R2DBC → RDB

Spring Data R2DBC
Repository