Spring Projects

for Microservices Architecture

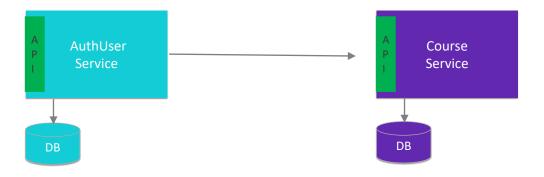
Spring Web MVC

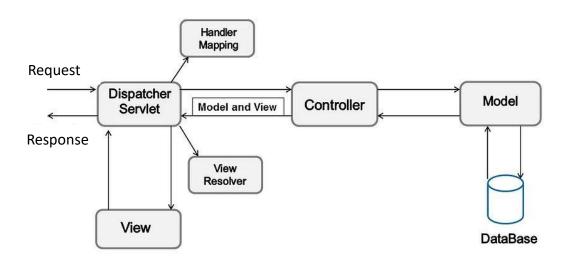
@Controller

@RestController

@RequestMapping

```
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-web</artifactId>
</dependency>
```





Spring Validation

@Validated @NotNull

@Size @NotEmpty

@Email @NotBlank

```
@NotBlank
private String description;
@Email
private String email;
@Size(min = 4, max = 50)
private String username;
```

private String name;

@NotBlank

```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-validation</artifactId>
</dependency>
```

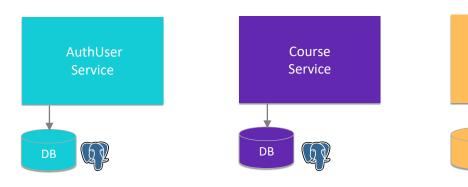
Spring HATEOAS 😩

```
user.add(linkTo(methodOn(UserController.class).getOneUser(userId)).withSelfRel());
```

public class UserModel extends RepresentationModel<UserModel> implements Serializable {

```
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-hateoas</artifactId>
</dependency>
```

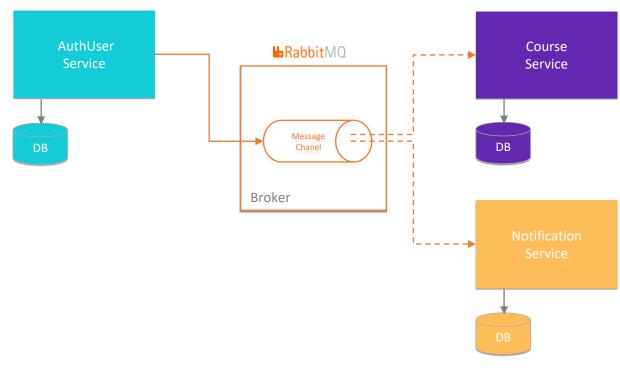
Spring Data JPA



```
public interface RoleRepository extends JpaRepository<RoleModel, UUID> {
    Optional<RoleModel> findByRoleName(RoleType name);
}
```

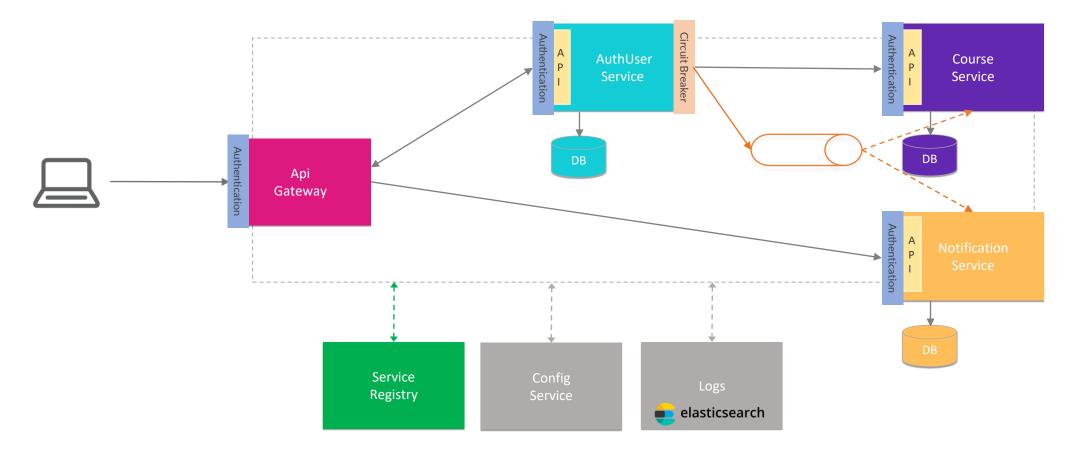
```
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-data-jpa</artifactId>
</dependency>
```

Spring AMQP

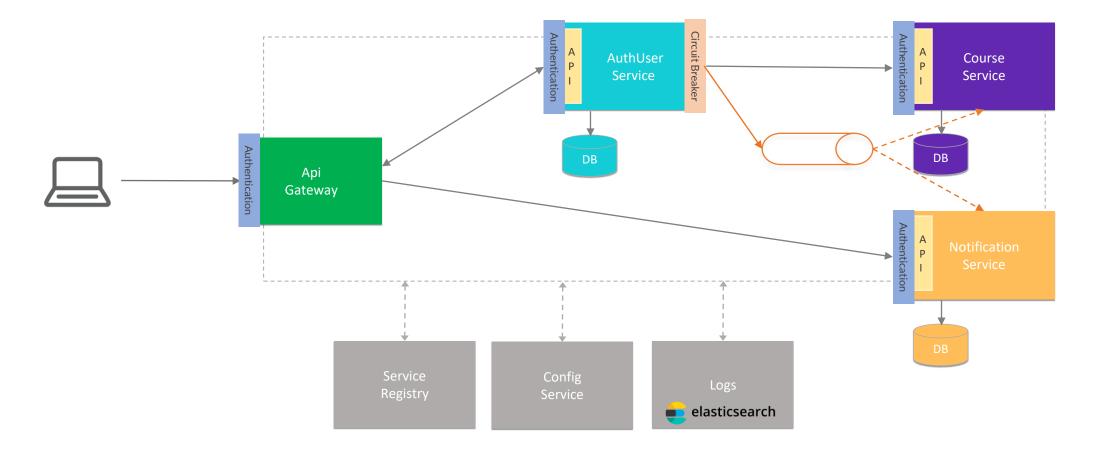


```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-amqp</artifactId>
</dependency>
```

Spring Cloud Netflix Eureka



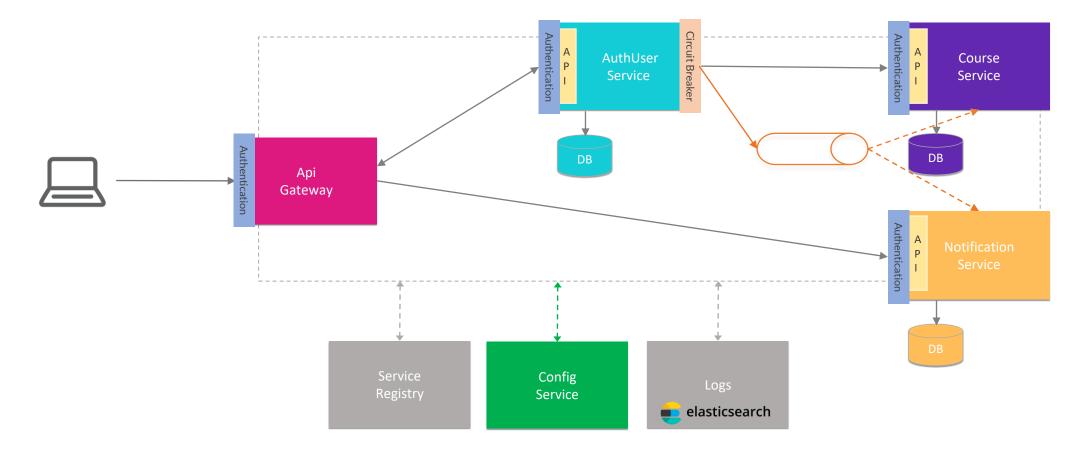
Spring Cloud Gateway (



```
<dependency>
  <groupId>org.springframework.cloud</groupId>
  <artifactId>spring-cloud-starter-gateway</artifactId>
  </dependency>
```

Spring Cloud Config

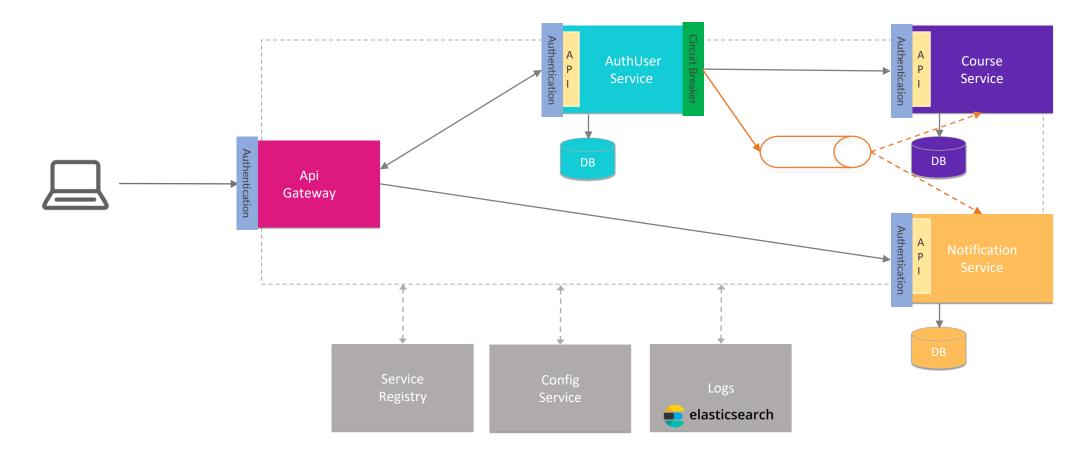




```
<dependency>
 <groupId>org.springframework.cloud
 <artifactId>spring-cloud-config-server</artifactId>
</dependency>
```

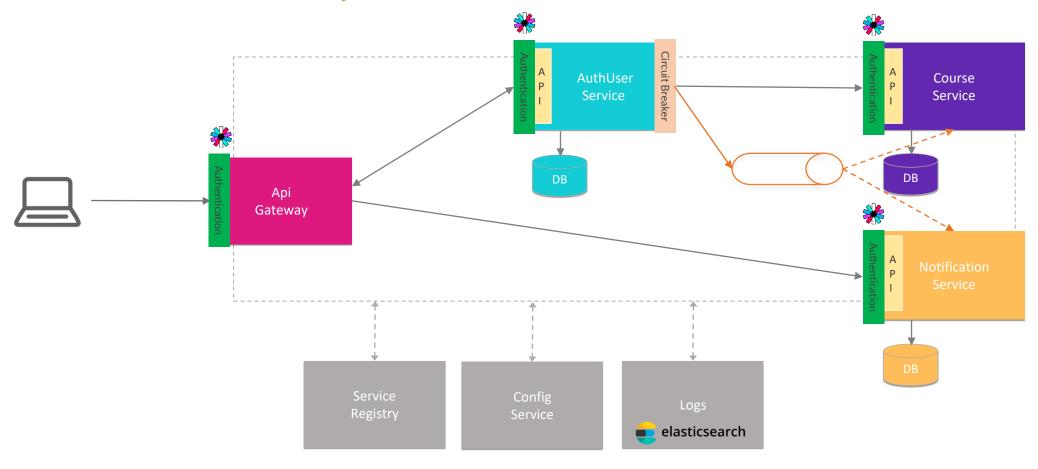
Spring Cloud Circuit Breaker Resilience4J (





```
<dependency>
 <groupId>org.springframework.cloud
 <artifactId>spring-cloud-starter-circuitbreaker-resilience4j</artifactId>
</dependency>
```

Spring Security •



```
<dependency>
 <groupId>org.springframework.boot
 <artifactId>spring-boot-starter-security</artifactId>
</dependency>
```

Microservices Architecture with Spring - EAD

