

Redis

18 Spring Boot Pub/Sub

Pub/Sub

2.
Redis

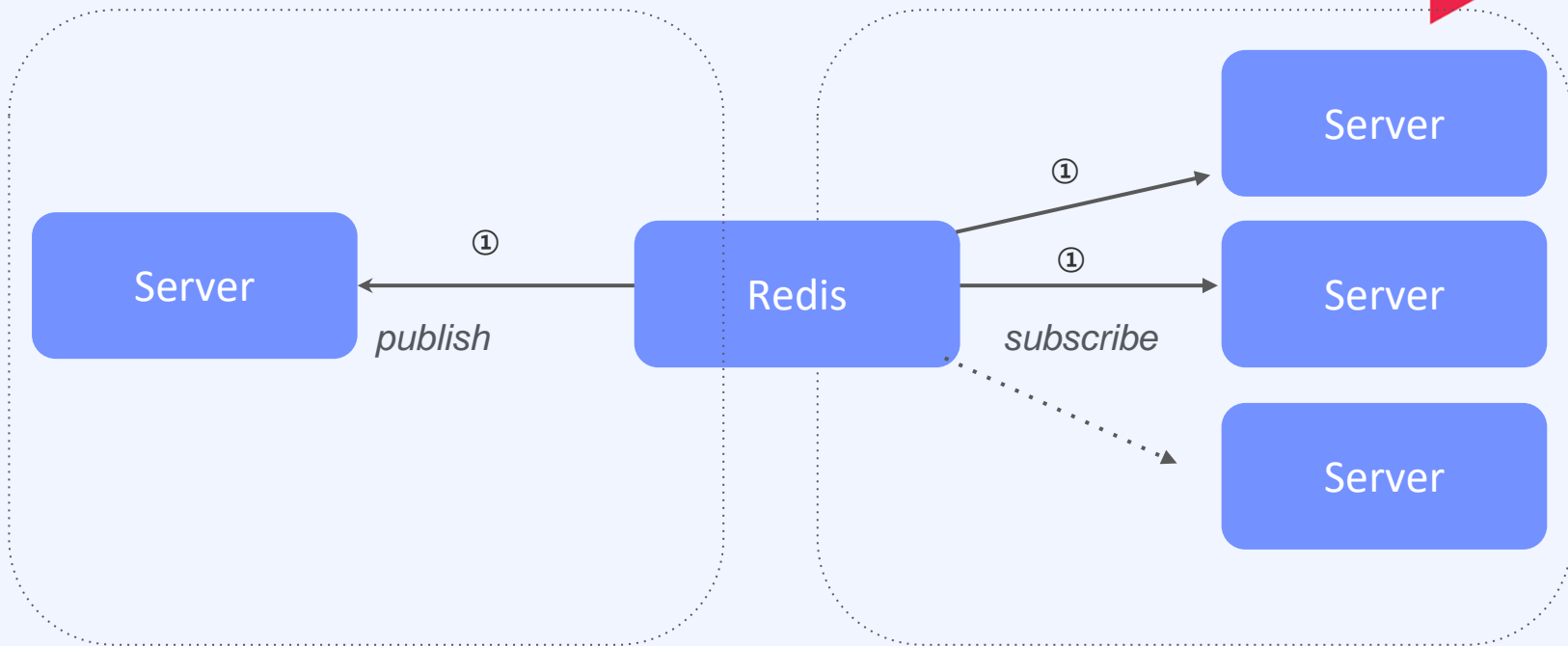


Publish/Subscribe

Pub/Sub

2.
Redis

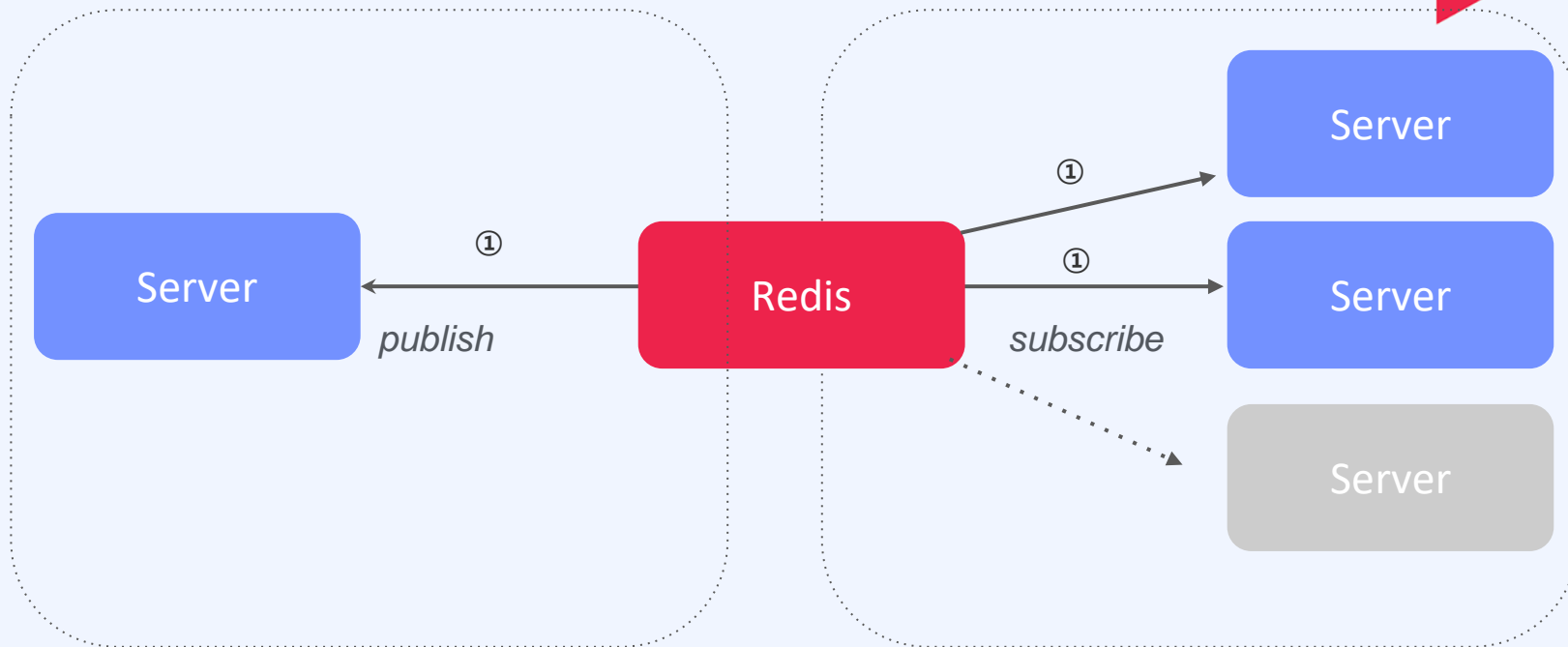
Loose coupling



Pub/Sub

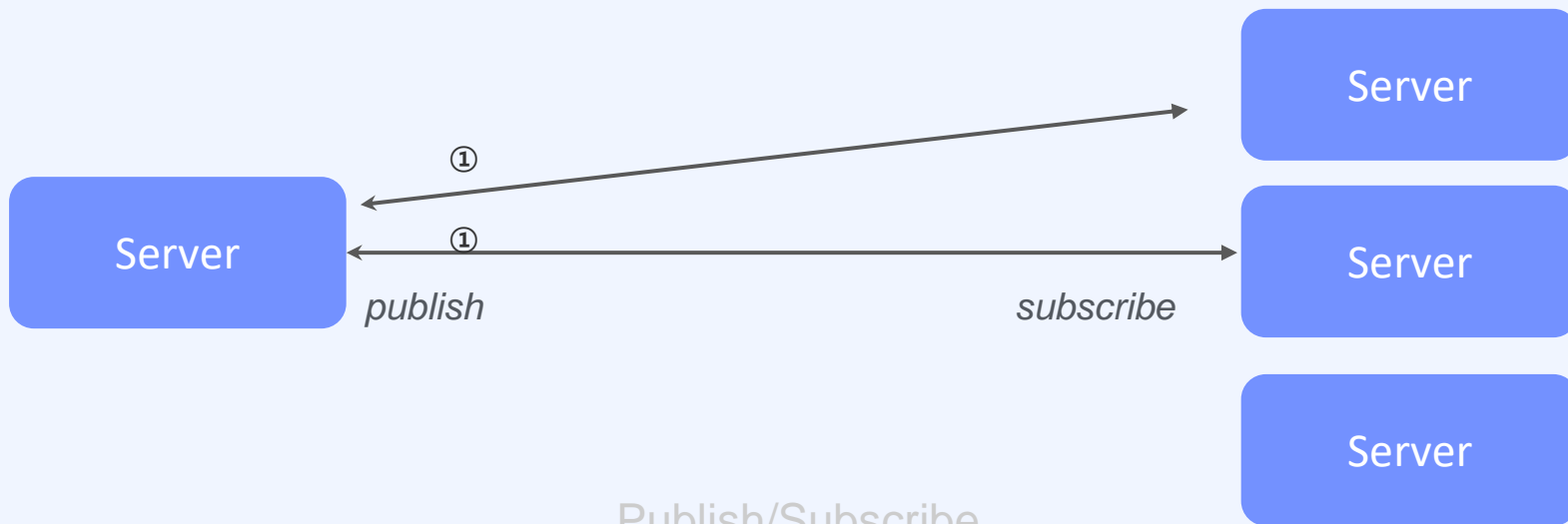
2.
Redis

Loose coupling



Pub/Sub

2.
Redis



Publish/Subscribe

Pub/Sub

2.

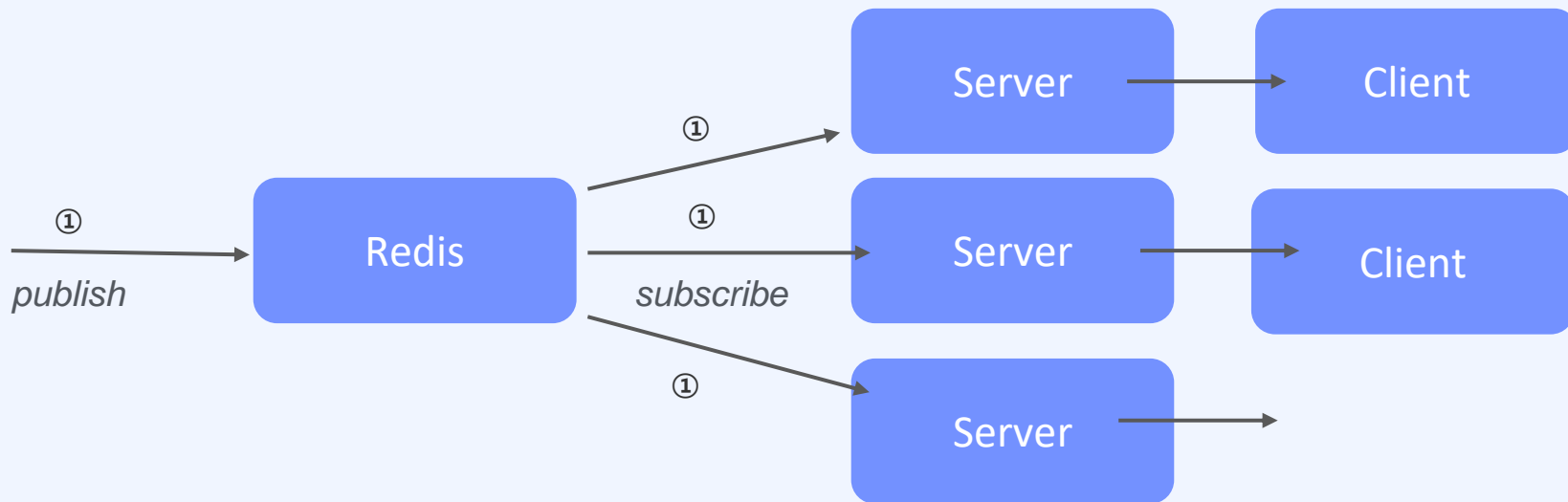
Redis

Pub/Sub

1. Event
2. Notification
3. Realtime message
4. ...

Pub/Sub

2.
Redis



Pub/Sub

Redis

2.

Redis

Redis pub/sub


```
127.0.0.1:6379> SUBSCRIBE users:unregister
```

Reading messages... (press Ctrl-C to quit)

1) "subscribe"

2) "users:unregister"

3) (integer) 1

Pub/Sub

Redis

2.

Redis

```
127.0.0.1:6379> PUBLISH users:unregister 100  
(integer) 1
```



```
127.0.0.1:6379> SUBSCRIBE users:unregister
```

...

1) "message"

2) "users:unregister"

3) "100"

Pub/Sub

Redis

2.

Redis

```
127.0.0.1:6379> PUBSUB channels
```

```
1) "users:unregister"
```

```
127.0.0.1:6379> PUBSUB numsub users:unregister
```

```
1) "users:unregister"
```

```
2) (integer) 1
```

Pub/Sub

Redis

2.

Redis

```
127.0.0.1:6379> PSUBSCRIBE users:*
```

Reading messages... (press Ctrl-C to quit)

1) "psubscribe"

2) "users:?"

3) (integer) 1

Pub/Sub

Redis

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Redis

```
127.0.0.1:6379> PUBLISH users:1234 adsf  
(integer) 1
```

```
127.0.0.1:6379> PUBLISH users:5555 adsf  
(integer) 1
```



```
127.0.0.1:6379> PSUBSCRIBE users:*
```

```
...
```

```
1) "pmessage"
```

```
2) "users:*"
```

```
3) "users:5555"
```

```
4) "adsf"
```

Pub/Sub

2.

Redis

실습

Pub/Sub

Spring boot

2.

Redis

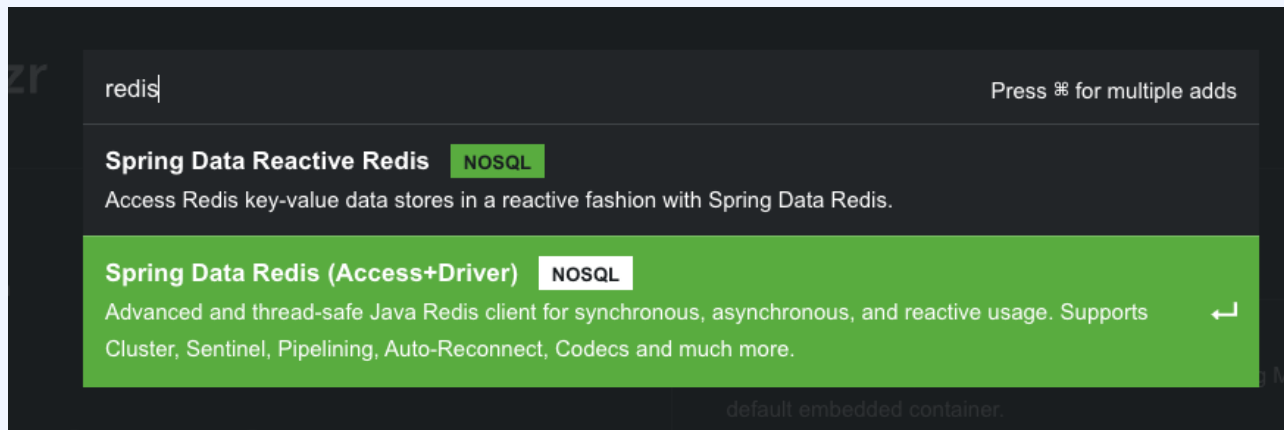
Spring boot

Pub/Sub

Spring boot

2.

Redis



Pub/Sub

Spring boot

2.

Redis

```
@Service
@RequiredArgsConstructor
@Slf4j
public class MessageListenService implements MessageListener {
    1 usage
    private final ObjectMapper mapper = new ObjectMapper();

    new *
    @Override
    public void onMessage(Message message, byte[] pattern) {
        try {
            Object obj = mapper.readValue(message.getBody(), Object.class);
            log.info("Received message: {}", obj.toString());
        } catch (IOException ex) {
            throw new RuntimeException(ex);
        }
    }
}
```

Pub/Sub

Spring boot

2.

Redis

```
@Bean
MessageListenerAdapter messageListenerAdapter() {
    return new MessageListenerAdapter(new MessageListenService());
}

no usages new *

@Bean
RedisMessageListenerContainer redisMessageListenerContainer(RedisConnectionFactory connectionFactory,
                                                            MessageListenerAdapter listener) {
    RedisMessageListenerContainer container = new RedisMessageListenerContainer();
    container.setConnectionFactory(connectionFactory);
    container.addMessageListener(listener, ChannelTopic.of(name: "users:unregister"));
    return container;
}
```

Pub/Sub

Spring boot

2.

Redis

```
@Override
public void run(ApplicationArguments args) throws Exception {
    Long sentMessages = redisTemplate.convertAndSend(channel: "users:register", message: "100");
}
```

Pub/Sub

2.
Redis

실습