

## (Video 09: Spring Boot @ConditionalOnProperty)

### @ConditionalOnProperty

Bean is created Conditionally (mean Bean can be created or Not).

There might be some beans which are unnecessary and are not that much required. That's where this annotation comes into play.

### Example

@Component

public class DBConnection {

@Autowired

MySQLConnection mysqlConnection;

~~@Autowired~~

NoSQLConnection noSqlConnection;

}

@Component

public class NoSQLConnection {

@Component

public class MySQLConnection {

No lets say there is some database migration going on and now we want to use Nosql instead of MySQL

We only want to ~~see~~ create 1 bean.

### Use Case 1

@Component  
@ConditionalOnProperty(prefix = "sqlconnection", value = "enabled",  
havingValue = "true", matchIfMissing = false)

*1st value of argument* (pointing to prefix)  
*end value of argument* (pointing to value)

```
public class MySQLConnection {
```

```
    MySQLConnection() {
```

```
        sout("init MySQLConnection");
```

```
    }
```

```
}
```

@Component

@ConditionalOnProperty(prefix = "nosqlconnection", value = "enabled",  
havingValue = "true", matchIfMissing = false)

```
public class NoSQLConnection {
```

```
    NoSQLConnection() {
```

```
        sout("init NoSQLConnection");
```

```
    }
```

```
}
```

(Application properties)

(SqlConnection-enabled = true)

(1st Argument)

(2nd Argument)

MySQL Connection  
Bean will  
be created

nosqlConnection property not present so  
matchIfMissing = false

Hence we don't do anything

@Component  
public class DB Connection {

@Autowired (required = false)  
MySQLConnection mysqlConnection;

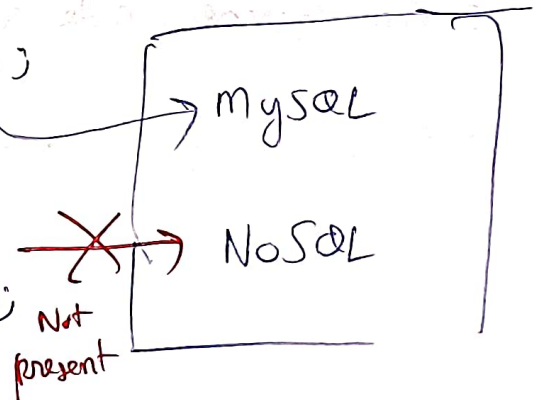
@Autowired (required = false)  
NoSQLConnection noSQLConnection;

@PostConstruct  
public void init() {

}

}

DB Connection



Required = false is very important  
as if bean is not present

Spring will skip it



## Advantages

### [Conditional On Property]

1. Toggling of Feature
2. Avoid Cluttering Application Context with unnecessary beans
3. Save Memory
4. Reduce Application Startup time → (Lesser no. of beans to initialize)

### Disadvantages:

1. Managing becomes complex
2. Multiple bean creation with same configuration brings Confusion,
3. Can increase code complexity