java代码审计深度解析

第一课 sql注入原理

SQL注入

http://xxx/aa.jsp?id=1

```
HttpServletRequest request, HttpServletResponse response) {
JdbcConnection conn = new JdbcConnection();
final String sql = "select * from product where pname like '%"
                 + request.getParameter("id") + "%'";
conn.execqueryResultSet(sql);
```

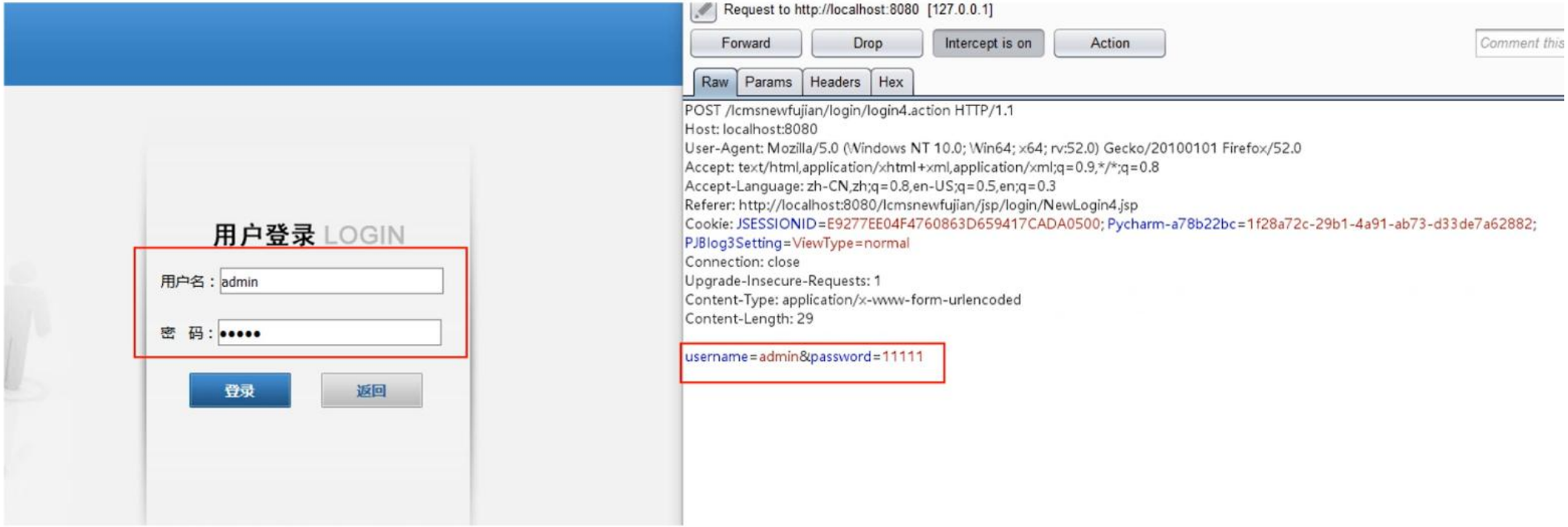
```
final String sql = "select * from product where pname like '%1' or '%'='%'";
```

SQL注入

http://xxx/1022.html

```
String id = url.Substring(url.length-9,4);
final String sql = "select * from product where id ="+ id;
conn.execqueryResultSet(sql);
```

SQL注入


用户登录 LOGIN
用户名：admin
密 码：•••••
登录
返回
Request to http://localhost:8080 [127.0.0.1]
Forward
Drop
Intercept is on
Action
Comment this
Raw
Params
Headers
Hex
POST /lcmsnewfujian/login/login4.action HTTP/1.1
Host: localhost:8080
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Referer: http://localhost:8080/lcmsnewfujian/jsp/login/NewLogin4.jsp
Cookie: JSESSIONID=E9277EE04F4760863D659417CADA0500; Pycharm-a78b22bc=1f28a72c-29b1-4a91-ab73-d33de7a62882;
PJBlog3Setting=ViewType=normal
Connection: close
Upgrade-Insecure-Requests: 1
Content-Type: application/x-www-form-urlencoded
Content-Length: 29
username=admin&password=11111

SQL注入

post型sql注入(post内参数)

username、password传入sql语句进行执行

String sql = “select * from usertable where name= ‘” +username+”’ and password= ‘” +password+ “’ ”

SQL注入

获取header中参数引起的sql注入

username、cookie、X-Forward-For等

String referer = request.getHeader(“referer”);

String sql = “update TABLE set referer= ‘” +referer+’ ”;

SQL注入-JDBC

```
String sql = "select * from product where pname like '%"
             + request.getParameter( “name") + "%’ ” ;
```

```
String sql = "select * from product where pname like '%"
             + name + "%’ ” ;
```

SQL注入-Mybatis

```
<select>
    select * from table where name like '%$value$%'
</select>
```

```
Select * from news where id in (${id})
```

```
Select * from news where title =  '新年'  order by ${time} asc ,
```

SQL注入-Hibernate

```
String hql ="SELECT warehousename FROM Tswarehouseinformation
wh WHERE wh.teuint.unitguid = '"+GUID+ "' " ;
Query query=session.createQuery(sql);
```

谢谢观赏