

JSONObject jsonObject = new JSONObject();

jsonObject.put("errno", 0);
jsonObject.put("data", data);

return jsonObject;

Н

String[] data = {storageService.store(file, Paths.get(customPath))};

2. Then the "path" is concatenated to storageProperties.getUploadFiledir(), finally passed to path.resolve();

```
56 0 @
            public String store(MultipartFile file, Path path) {
                String <u>fileURL</u> = null;
                    throw new StorageException("请选择要上传的文件")
                String filename = StringUtils.cleanPath(file.getOriginalFilename());
                if (filename.contains("..")) {
                    throw new StorageException("文件格式不正确");
                    fileURL = ossService.uploadFile20SS(file, path.toString());
                  path = Paths.get( first storageProperties.getUploadFiledir() + path.toString());
                    // 目录不存在则创建
                    if (!Files.exists(path)) {
                        init(path);
                    String newFilename = FileNameUtil.getFileName(filename);
                    try (InputStream inputStream = file, tInputStream()) {
                        Files.copy(inputStream, path.resolve(newFilename), StandardCopyOption.REPLACE_EXISTING)
                        fileURL = storageProperties.getStaticUrl() + newFilename;
```

3. In FileNameUtil.getFileName(), it just simply renames the basename of file with random uuid and concatenated the suffix;

```
public static String getFileName(String fileOriginName){
    return UUID.randomUUID().toString().replace( target: "-", replacement: "") + getSuffix
    (fileOriginName);

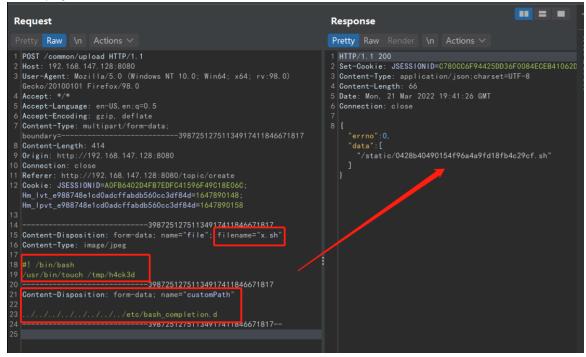
28     }

29     }

30
```

- 4. So we only need to
  - tamper the suffix of an originally valid file to bypass the front-end validation
  - construct the customPath param in post body params which includes "../" to complete path traversal

5. Final payload:



6. Here we used /etc/bash\_completion.d to add an shell script, so the RCE will be triggered automatically each time the victim logs into bash, which is super ez to achieve.

```
(root Daedalus)-[/etc/bash_completion.d]

# ll

total 8

-rw-r 1 root root 40 Mar 22 03:41 0428b40490154f96a4a9fd18fb4c29cf.sh

-rw-r-r-- 1 root root 439 Dec 29 2020 git-prompt
```

7. After the login, we can see that the code had gotten executed.

```
daedalus)-[/etc/bash_completion.d]
        .
   11 <u>/tmp</u>
total 52
                                   0 Mar 22 03:47 h4ck3d
-rw-r--r-- 1 root
                       root
                                4096 Mar 22 03:38 hspertdata_root
drwxr-xr-x 2 root
                      root
                                   0 Mar 22 03:29 kotlin-idea-7132130903290010746-is-running
             root
                       root
                                   0 Mar 22 02:59 kotlin-idea-9923915367466790353-is-running
           1 root
                       root
-rw
```