



```
research@STM:~$ cat /stm/vulndb/CVE-2021-37419
```

## CVE-2021-37419

### Name

SSRF vulnerability in /servlet/ADSHACluster endpoint

### Product name

ManageEngine ADSelfService Plus

### CVSS score

8.6 (High)

### Confirmed exploitable versions

< 6112

### CVSS vector

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:N/I:H/A:N

### Researcher

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### Description

It is possible to conduct SSRF attack without authentication by sending specially crafted request to `/servlet/ADSHACluster` endpoint. By abusing this vulnerability an attacker can send POST requests to any address, any endpoint and can provide own parameters in POST request body. Requests can be sent via HTTPS protocol only.

### Proof-of-concept

1. Start HTTPS server (which will receive POST request sent by ADSSP server).
2. Change the following variables in [CVE-2021-37419.py](#) script:
  - `ADSSP_URL` - ADSSP server address
  - `TARGET_URL` - address to which POST request will be sent (where HTTPS server from step 1 is running)
  - `PARAMS` - arguments which will be included in POST request body
3. Execute CVE-2021-37419.py script.
4. HTTPS server from step 1 should receive POST request sent from ADSSP server:

```
[*] Starting HTTPS server on port 8080
[*] Received POST request from 192.168.100.102!
Path: /myOwnAPI
Headers:
Connection: close
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_162
Host: 192.168.100.101:8080
Accept: text/html, image/gif, image/jpeg, *; q=.2, */*; q=.2
Content-type: application/x-www-form-urlencoded
Content-Length: 73
Body:
MTCALL=getHandshakeKey&HANDSHAKE=true&haAuthKey=1&param1=test&param2=test
```

### Timeline

- 07-05-2021 - Vulnerability reported to vendor
- 07-05-2021 - First response from vendor
- 24-06-2021 - Update from vendor
- 26-08-2021 - Fixed version release
- 21-02-2022 - Public disclosure
- 21-02-2022 - PoC release

### References

<https://www.manageengine.com/products/self-service-password/release-notes.html#6112>  
<https://pitstop.manageengine.com/portal/en/community/topic/adselfservice-plus-6112-hotfix-release>



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