



## AL2026\_04 Hackers Abuse OAuth Error Flows to Spread Malware (March 6th, 2026)

### Description

Researchers from Microsoft have identified phishing campaigns that abuse legitimate OAuth error and redirection mechanisms to bypass email and browser phishing protections and distribute malware.

In these attacks, threat actors manipulate OAuth authentication flows so that users are redirected from legitimate authentication pages to attacker-controlled websites hosting malicious payloads. The campaigns primarily target government and public-sector organizations through phishing emails designed to appear as legitimate Microsoft communications.

Because the technique leverages legitimate OAuth functionality and trusted domains, many traditional email filtering and browser security mechanisms fail to detect the malicious activity.

### Attack Details

Threat actors are exploiting the OAuth redirection mechanism to deliver malware through multi-stage phishing campaigns.

Key characteristics include:

- **Abuse of OAuth redirect flows:** Attackers intentionally trigger OAuth errors or invalid scopes so that authentication requests redirect victims to attacker-controlled infrastructure.
- **Phishing email delivery:** Victims receive phishing messages impersonating legitimate Microsoft services (e.g., Teams meeting recordings or account notifications) that contain OAuth authentication links.
- **Malware distribution:** After redirection, victims are prompted to download malicious files, often ZIP archives containing shortcut files (LNK) or loaders that execute PowerShell commands.
- **Defense evasion:** Because the redirect originates from legitimate authentication pages, many email security tools and browsers consider the links trustworthy, enabling the attack to bypass common phishing detection mechanisms.
- **Target sectors:** Government agencies and public-sector organizations appear to be primary targets, although the technique could affect any organization using cloud identity platforms and OAuth-based authentication services.



## Remediation

Organizations should take the following measures to mitigate risks associated with OAuth-based phishing and malware delivery attacks:

- **User awareness training:** Educate users about phishing emails that request authentication through unexpected Microsoft or cloud service links.
- **Monitor OAuth activity:** Audit OAuth application registrations and consent grants within enterprise environments for suspicious or unauthorized applications.
- **Restrict third-party app permissions:** Implement policies that require administrator approval before users can grant OAuth permissions to external applications.
- **Email filtering enhancements:** Deploy advanced phishing detection tools capable of analyzing authentication URLs and identifying suspicious OAuth redirect behavior.
- **Endpoint protection:** Use endpoint detection and response (EDR) solutions to detect malicious script execution, suspicious PowerShell activity, or abnormal process behavior.
- **Multi-factor authentication:** Enforce strong MFA policies across all accounts to reduce the impact of credential compromise or malicious authentication attempts.
- **Security monitoring:** Review authentication logs, application consent logs, and unusual login activity in identity platforms such as Microsoft Entra ID.
- **Incident response procedures:** If compromise is suspected, isolate affected systems, revoke OAuth tokens, reset user credentials, and investigate network activity for malicious communications.

The Guyana National CIRT recommends that users and administrators review this alert and apply it where necessary.

## References

- Toulas, B. (2026). Hackers abuse OAuth error flows to spread malware. Retrieved from BleepingComputer: <https://www.bleepingcomputer.com/news/security/microsoft-hackers-abuse-oauth-error-flows-to-spread-malware/>