



# EvilTokens

The New Microsoft 365 Phishing Threat

How attackers are using REAL Microsoft login pages  
to steal your access tokens

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# Why This Is Different

This isn't the phishing you've been trained to spot.

## Old Phishing (Spoofed Pages)

- Fake login page mimics Microsoft
- URL is wrong (e.g. micros0ft-login.com)
- SSL cert doesn't match
- Password & MFA code captured by attacker proxy
- Trained users can spot the fake URL



## EvilTokens (Real Pages)

- **REAL Microsoft login page**
- **URL is microsoft.com/devicelogin**
- Valid SSL certificate from Microsoft
- Your real MFA prompt fires — and you approve it
- **Even trained users get fooled**

The victim sees no red flags. The URL is real. The page is real. The MFA prompt is real.

# What Is Device Code Flow?

A legitimate Microsoft feature being weaponized

## Designed For:

Smart TVs, IoT devices, and printers that can't display a full login screen. Instead of typing credentials on the device, you enter a short code on your phone or laptop to authorize it.

### The Legitimate Flow:

1. Device generates a short code
2. You visit [microsoft.com/devicelogin](https://microsoft.com/devicelogin)
3. You enter the code & sign in with MFA
4. Device gets an access token



## How Attackers Abuse It:

1. Attacker generates a device code tied to THEIR session
2. Sends you a phishing email with the code
3. You go to REAL Microsoft page & enter it
4. You complete YOUR real MFA challenge

### 5. Microsoft gives the ATTACKER your tokens

**Result: Attacker gets a 90-day refresh token. No password stolen. No MFA bypassed. They just got YOU to authorize THEM.**

# The EvilTokens Attack Chain

1

## Phishing Lure

Victim gets email: fake  
DocuSign,  
SharePoint share, voicemail, or  
payroll notice

2

## Real Microsoft Page

Link goes to microsoft.com/  
devicelogin — a 100%  
legitimate  
Microsoft URL

3

## Enter Code + MFA

Victim enters the attacker's  
code  
and completes their normal  
MFA prompt

4

## Tokens Harvested

Attacker receives access token  
+  
90-day refresh token for the  
victim's account

## What The Attacker Gets:

### Full Email Access

Read, send, delete emails  
as the victim

### OneDrive / SharePoint

Access all files and  
shared documents

### Teams Data

Read chats, channels,  
and meeting data

### SSO Impersonation

Lateral movement across  
all M365 services

# By The Numbers

EvilTokens campaign scope as of March 2026

**340+**

Microsoft 365 orgs  
compromised

**1,000+**

Domains hosting  
EvilTokens pages

**90 days**

Refresh token lifetime  
(attacker persistence)

**Feb  
2026**

EvilTokens PhaaS  
launched

## Most Targeted Roles & Sectors:

### Finance & HR

Invoice approvals, payroll  
changes

### Logistics & Sales

Shipping notices, purchase  
orders

### Construction

Fake bid solicitations

### Healthcare & Legal

Sensitive document lures

# What The Lures Look Like

Phishing emails and documents your users will see

## DocuSign / Adobe Sign

"Please review and sign this document."  
Displays a verification code and a  
"Continue to Microsoft" button.

## Shared OneDrive File

"Someone shared a file with you." Opens  
a fake SharePoint page with the device  
code pre-filled.

## Voicemail / eFax

"You have a new voicemail from +1  
(555)..." Links to a page that requires  
Microsoft sign-in to listen.

## Payroll / Invoice

"Action required: Review your updated  
pay stub." Urgent tone targets finance  
and HR teams.

## Password Expiry

"Your password will expire in 24 hours."  
Creates urgency to click and "verify" via  
device code.

## Calendar Invite / QR

Meeting invite or QR code that redirects  
to the Microsoft device login page.

All lures direct users to the [REAL microsoft.com/devicelogin](https://www.microsoft.com/devicelogin) — that's what makes them so effective.

# Defense: Admin Actions

What IT needs to do right now in Entra ID



## Block Device Code Flow

Create a Conditional Access policy:

Conditions > Authentication Flows > Device Code Flow > Block Access. Apply to All Users. Exclude break-glass accounts only. Use Report-Only mode first, then enforce.



## Monitor Sign-In Logs

Filter Entra sign-in logs by Authentication Protocol = "Device Code."

Look for device code flow from unexpected IPs or locations.

KQL: SignInLogs | where AuthenticationProtocol == "deviceCode"



## Revoke Tokens Immediately

If compromised: Revoke all refresh tokens for the user in Entra.

Password reset alone is NOT enough — refresh tokens survive resets.

Also check for newly registered devices under the user's account.



## Require Compliant Devices

Use Conditional Access to require Intune-compliant or Entra-joined devices for access. This prevents token use from unmanaged machines.

Especially important for your CJIS-scoped tenants.

CJIS Note: For law enforcement tenants, blocking device code flow aligns with CJIS Security Policy 5.6.2.2 — verify audit logging is capturing these events.

# What To Tell Your Users

Training points for end-user awareness

1

## Never enter a code you didn't generate

If someone emails or messages you a code and tells you to go to [microsoft.com/devicelogin](https://microsoft.com/devicelogin), stop. You should only use that page for devices YOU are setting up, like a conference room TV or printer.

2

## "Real Microsoft page" doesn't mean safe

The whole point of this attack is that the login page IS real. The danger is in WHY you're there. If you didn't initiate a device setup, don't enter any code — even on a legitimate Microsoft page.

3

## Be suspicious of urgency + codes

Lures use time pressure: "Sign your document now," "Verify your password before it expires." If an email gives you a code AND creates urgency, that's the red flag.

4

## When in doubt, call IT

If you get a request that involves entering a code at [microsoft.com/devicelogin](https://microsoft.com/devicelogin) and you didn't initiate it yourself, contact your helpdesk immediately. Don't approve, don't enter the code.



# Key Takeaways

- ✓ EvilTokens uses REAL Microsoft pages — old "check the URL" training won't save you.
  - ✓ MFA is still important, but it does NOT stop this attack. The victim completes MFA themselves.
  - ✓ The attacker gets a 90-day refresh token that survives password resets.
  - ✓ Block device code flow in Conditional Access for all users who don't need it.
  - ✓ Monitor Entra sign-in logs for device code flow authentications from unknown locations.
  - ✓ Train users: never enter a code at [microsoft.com/devicelogin](https://microsoft.com/devicelogin) unless they initiated the device setup.
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