

Blocking Device Code Flow in Microsoft Entra ID

Field	Details
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Audience	2nd Line / Entra ID Admins / IT Engineer
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Overview

Device Code Flow allows users to authenticate on one device by entering a code on another. While useful for devices with limited input, it introduces significant phishing risk and can enable access from unmanaged devices.

This guide walks through configuring a Conditional Access policy to block Device Code Flow.

Prerequisites

- Microsoft Entra ID P1 (or higher)
- Conditional Access Administrator (or equivalent role)
- Emergency / break-glass accounts identified

Step 1: Access Conditional Access Policies

1. Sign in to the Microsoft Entra admin center
2. Navigate to:
Entra ID > Conditional Access > Policies
3. Select + **New policy**

Step 2: Define Policy Scope

Users

- Include: **All users (recommended)**
- Exclude:

- Emergency access accounts
- Break-glass accounts

Always maintain at least one account excluded to prevent lockout

Step 3: Target Resources

- Select **Target resources (Cloud apps)**
- Include: **All resources (recommended)**

Step 4: Configure Authentication Flow Condition

1. Navigate to:
Conditions > Authentication Flows
2. Set **Configure = Yes**
3. Select:
 - **Device Code Flow**
4. Click **Done**

Step 5: Block Access

1. Go to:
Access Controls > Grant
2. Select:
 - **Block access**
3. Click **Select**

Step 6: Enable in Report-Only Mode (Recommended)

- Set policy state to: **Report-only**
- Click **Create**

This allows you to assess impact before enforcing

Step 7: Validate Impact

- Navigate to:
Monitoring > Sign-in logs
- Filter by:
 - Authentication Protocol = Device Code Flow

Identify:

- Users
- Applications
- Dependencies

Step 8: Enforce Policy

Once validated:

- Change policy state from **Report-only > On**
- Monitor for failures and adjust exclusions if required

Important Considerations

- Device Code Flow is often used by:
 - Azure CLI / PowerShell
 - Teams Rooms / shared devices
- Blocking may impact these scenarios

Microsoft recommends blocking unless explicitly required

Best Practices

- Start in report-only mode
- Keep exclusions minimal and reviewed regularly
- Monitor sign-in logs continuously
- Prefer modern, secure authentication methods

Summary

Blocking Device Code Flow reduces exposure to phishing attacks that exploit cross-device authentication. This control strengthens identity security by eliminating a high-risk authentication path.

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