# **Disabling USB Storage Access via GPO**

**Environment:** Windows Server 2022 (Domain Controller), Windows Enterprise Clients

#### **Objective**

Prevent unauthorized access or data theft via USB/removable storage devices on all domain-joined client machines using centralized Group Policy.

## **Technology Stack**

- Group Policy Management via Windows Server 2022
- Domain-Joined Clients (Windows 10/11 Enterprise)
- Administrative Templates (Group Policy Editor)

### **Step-by-Step Implementation**

#### 1. Create a New GPO

- Open the Group Policy Management Console (GPMC)
- Right-click your domain root (e.g., kali.local)
- Select: Create a GPO in this domain and link it here
- Name it: Removable Storage Access

#### 2. Edit the GPO

• Right-click Disable USB Storage → Click Edit

### 3. Navigate to the Policy Path

Computer Configuration  $\rightarrow$  Policies  $\rightarrow$  Administrative Templates  $\rightarrow$  System  $\rightarrow$  Removable Storage Access

### 4. Configure the Policy

- Find: All Removable Storage classes: Deny all access
- Double-click it

• Set to: Enabled

• Click Apply, then **OK** 

## **Configuration Summary**

Setting Name Value

GPO Name Disable USB Storage

Scope Computer Configuration

Policy Path System → Removable Storage Access

Policy Applied All Removable Storage classes

Policy Value Deny all access

Enforced Yes

# **Security Benefits**

- Prevents introduction of **unauthorized software** via USB
- Blocks potential data leaks or ransomware infections
- Aligns with CIS Benchmarks and Zero Trust Architecture
- Ideal for government, healthcare, finance, and education IT

#### **Skills Demonstrated**

- Secure endpoint configuration using Group Policy
- Computer-level policy enforcement
- Compliance-focused IT administration
- Preventative security design

#### **Final Notes**

- Combine with **Device Installation Restrictions** for even stronger security
- Test GPO on **OU-level before domain-wide rollout**

• Document GPOs in a version-controlled policy change log

