# Bypassing TPM, Secure Boot, and Microsoft Account During Windows 11 VM Setup

**Date:** June 7, 2025
**Category:** Windows / Virtualization / Lab Setup
**Purpose:** Create Windows 11 VMs for a domain lab without being blocked by hardware checks or Microsoft Account requirements.

---

## Background

When installing Windows 11 on VirtualBox or similar platforms, you may encounter the following issues:

- TPM 2.0 or Secure Boot not detected
- Forced sign-in with a Microsoft account

This guide walks through bypassing both roadblocks for lab environments.

---

## Requirements

- Windows 11 ISO
- VirtualBox or other VM platform
- No TPM or Secure Boot hardware needed

# Step 1: Bypass TPM, Secure Boot, and RAM Checks

1. When you see a message like “This PC can’t run Windows 11,” press:

   ```
   Shift + F10
   ```

   to open Command Prompt.
2. Type:

   ```
   regedit
   ```

3. In Registry Editor, navigate to:

   ```
   HKEY_LOCAL_MACHINE\SYSTEM\Setup
   ```

4. Right-click `Setup` → **New > Key** → name it:

   ```
   LabConfig
   ```

5. Inside `LabConfig`, create the following **DWORD (32-bit) Values**:
   - `BypassTPMCheck` → 1 (Decimal)
   - `BypassSecureBootCheck` → 1 (Decimal)
   - `BypassRAMCheck` → 1 (Decimal)
6. Close Regedit and the Command Prompt.
7. Click **Back** then **Next** to retry setup.

---

# Step 2: Bypass Microsoft Account Requirement

Once Windows setup asks you to connect to a network or sign in:

## Option A: Use Bypass Command

1. Press:

   ```
   Shift + F10
   ```

2. Type:

```
oobe\bypassnro
```

3. The VM will reboot automatically.
4. On reboot, choose:
   - **“I don’t have internet”** or
   - **“Continue with limited setup”**
5. Create a **local user account** to complete setup.

## Option B: Temporarily Disable Networking (Optional)

If `oobe\bypassnro` doesn’t show the offline setup:

- Shut down the VM
- In **VirtualBox Settings > Network**, uncheck:

  ```
  Enable Network Adapter
  ```

- Boot the VM and try setup again — no internet = local account path
- Re-enable networking once setup is complete

---

# Result

You now have a clean Windows 11 VM with:

- Local admin account
- No TPM, Secure Boot, or Microsoft Account enforced

---

Revision #1
Created 7 June 2025 14:56:28 by Nate Nash
Updated 28 December 2025 20:31:02 by Nate Nash