Ubuntu Server Virtual Disk Resize with GParted

📖 Project Overview

Successfully resized a VirtualBox Ubuntu Server virtual disk from its original size to 40GB using VBoxManage and GParted.

🔍 Prerequisites

- VirtualBox 6.1+
- Administrator access
- Powered-off Ubuntu Server VM
- 40GB+ host disk space

🛠️ Tools Used

- **Host**: Windows 11
- **Virtualization**: Oracle VirtualBox
- **Guest**: Ubuntu Server (64-bit)
- **Utilities**:
  - `VBoxManage` CLI
  - GParted Live ISO

🚀 Step-by-Step Guide

1. Verify VM Configuration

```
"E:\Program Files\VBoxManage.exe" list vms
VM Path: C:\Users\User\VirtualBox VMs\ubuntu server\ubuntu server.vdi

2. Resize Virtual Disk
bash
"E:\Program Files\VBoxManage.exe" modifyhd "C:\path\to\ubuntu.vdi" --resize 40960
✅ Success: Disk expanded to 40GB

3. Prepare GParted
Download GParted Live ISO
```

Attach ISO to VM's storage controller

4. Boot into GParted
Select ISO as boot device

Press Enter for default options

Skip keymap changes

5. Resize Partition
Identify /dev/sda

Right-click → Resize/Move

Extend to fill space

✅ Apply All Operations

6. Verify in Ubuntu
bash
df -h
lsblk
🛠️ Troubleshooting
Issue   Solution
VBoxManage not found   Use full path to executable
No unallocated space   Verify disk resize completed
Permission errors   Run as Admin
📝 Key Takeaways
Always verify VM names (case-sensitive)

GParted is safest for partition edits

Document each step for reproducibility

🖼️ Suggested Screenshots
VBoxManage list vms output

GParted partition view

Terminal showing df -h