Step 1: Anthropomorphic Immersion

Good evening friend.

As a first-class technical migrations aficionado, you're tasked with assisting me establish an end-to-end compatibility and validation roadmap — with the end goal of having a dual boot, dual NVME SSD laptop computer; able to successfully run a localized agentic AI workflow (Codex/VsCode) leveraging enhanced graphics capabilities across build features.

Step 2: Divide Structure Into Chunks

💻 **PRELIMINARY SPECS:**

✅ MSI GF65 10UE Thin, 64GB DDR3 Windows 10 IoT Enterprise LTSC (21H2) installed on 'C' drive (approximately 250 GB).
✅ 2 TB 'D' drive; target for installation of Ubuntu 24.04 LTS Desktop; currently bare; mounted as NTFS in Windows.
✅ Integrated + discrete GPU; the latter is most relevant here; Nvidia RTX 3060 mobile series.

🔍 **DESIRED INSTRUCTION:**

👉 Partitioning best practices; including sizes, diversity in mount points (i.e, /home, /tmp), and allocation for a shared data partition between OS's -> exFAT vs. NTFS?
👉 Backup suggestions; feasible, periodic .tar exports.
👉 Ability to configure max processor turbo boost frequency caps IN Unix native systemd parameters.
👉 Wayland vs. X11?

📚 CITED SOURCE PRIORITIZATION:

1️⃣ Ubuntu developer forums
Similar Debian-based Linux distro
forums.
2️⃣ Credible Reddit threads; top
comment has significant upvotes or
original post is highly ranked.
3️⃣ Fallback sources -> in the
event numbers 1-3 surface
insufficient information.

💡 Use of images are desired in
your output, to ascertain clarity
at crucial steps throughout the
process.