

Desktop Migration Proposal

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Section 1: PC Purchase Research

While researching PC options, I looked at both Dell and Lenovo laptops. At first, I considered Dell's Latitude and Precision models, Latitude is known for professional business use, while Precision is designed for maximum performance and high end tasks. However, during the configuration process, I noticed a few things that made me go with Lenovo instead.

- Docking and Monitor Support:** When setting up the Dell Latitude, I couldn't easily find an option to add Thunderbolt 4 or a docking station for multiple monitors. It wasn't very clear or flexible during customization. On the other hand, Lenovo made it simple, the ThinkPad T14 Gen 5 included support for Thunderbolt 4 and had an available Universal Thunderbolt Dock, which was helpful for future multi-monitor setups.
- Cost and Value:** The Dell Precision line looked powerful, but it was more expensive than Lenovo's ThinkPad P1 Gen 7, even though Lenovo gave similar or better features like 4K OLED display, more RAM, and dedicated graphics. Lenovo also came with added tools like theft protection, Smart Performance software, and a better warranty package, all at a lower total price.
- Efficiency and Simplicity:** Lenovo's configuration was easier to manage and gave me a clear view of all the features and upgrades. It helped me match each laptop to the exact needs of both user groups creative users and regular users, while staying within a more reasonable budget.

In the end, I chose Lenovo not because Dell was lacking in quality, but because Lenovo offered better cost-efficiency, easier configuration, and all the right features for both performance and daily office use.

Section 2: PC Purchase Recommendation

Laptop Recommendation Assignment

In this assignment, I provide a well considered recommendation of two laptop configurations tailored to specific user types within our organization: Creative & Coding users and Common Office users. Each selection reflects best practices in IT procurement, balancing performance, cost-efficiency, security, and long-term reliability.

Step 1: User Type Identification

We are provisioning laptops for two distinct user types:

1. Creative & Coding Users (10 users):

- o Needs include software development, video editing, graphic design, and 3D modeling.
- o Require high processing power, ample memory, and advanced graphics support.

2. Common Office Users (40 users):

- o Needs include general office applications, email, web browsing, and spreadsheets.
- o Require a balance of performance and efficiency at a reasonable cost.

Step 2: Recommended Laptop for Creative & Coding Users (10 Users)

Device Chosen: Lenovo ThinkPad P1 Gen 7 Intel (16") Mobile Workstation

\$4,136.69

Key Specifications:

- **Processor:** Intel® Core™ Ultra 7 165H vPro® (16 cores, up to 5.00 GHz)
 - A next-generation, high-performance processor with a hybrid design 6 performance cores and 10 efficiency cores for balancing demanding tasks like coding and video rendering while preserving battery life. The 5.00 GHz turbo speed allows for fast multitasking and responsiveness.
- **Graphics Card:** NVIDIA RTX™ 3000 Ada Generation Laptop GPU 8GB GDDR6
 - A powerful, professional-grade GPU from NVIDIA's Ada Lovelace architecture. With 8GB of fast video memory (GDDR6), it handles advanced creative tasks such as 3D rendering, video editing, and GPU-accelerated AI functions with ease.
- **Memory (RAM):** 32 GB LPDDR5x-7467MT/s

- This is very fast and efficient low-power RAM, ideal for running many apps and large software programs simultaneously without slowdown. 7467MT/s refers to its high data transfer rate.
- **Storage:** 1 TB SSD PCIe Gen4 Performance
 - A spacious and fast Solid-State Drive using PCIe Gen 4, ensuring quick boot times, fast file transfers, and smooth loading of heavy programs or project files.
- **Display:** 16" WQUXGA OLED (3840 x 2400), Touchscreen, Dolby Vision™, 100% DCI-P3
 - A stunning 4K OLED display offering deep contrast and color accuracy (100% DCI-P3) critical for photo, video, and design work. The touchscreen adds intuitive input options.
- **Camera:** 5MP RGB+IR with Privacy Shutter
 - A high-resolution camera supporting both RGB (color) and infrared (for secure facial recognition via Windows Hello), plus a physical shutter for added privacy.
- **OS:** Windows 11 Pro
 - A professional-grade operating system with enhanced security, virtualization support, and productivity tools ideal for developers and business users.
- **Warranty:** 3-Year Premier Support Plus Upgrade
 - An advanced warranty plan providing priority tech support, faster service, and accident protection, offering peace of mind for a business-grade laptop.

Why This Laptop Was Chosen:

Creative & coding professionals need high-performance laptops with strong processors, dedicated graphics cards, and enough memory to run heavy applications like Photoshop, Premiere Pro, and coding IDEs (Visual Studio, IntelliJ, etc.). The Lenovo ThinkPad P1 Gen 7 is well suited for these demands. It offers 4K resolution for design accuracy, strong processing speed for multitasking, and robust memory and storage for handling large files.

Additional Features Included:

- Absolute Theft Protection (3 years)
 - Tracks the device even if stolen, offering recovery and remote lock/wipe features.
- McAfee® LiveSafe™ (3 years)
 - Antivirus and cybersecurity suite offering protection from malware, identity theft, and unsafe websites.
- Adobe Photoshop & Premiere Elements 2025

- Creative software for editing photos and videos — essential tools for content creators.
- Microsoft Office Home & Business 2024
 - Includes Word, Excel, PowerPoint, Outlook — licensed for productivity and business use.
- 3Y Lenovo Smart Performance & Smart Lock
 - Smart maintenance tools and security features to keep the laptop performing well and protected from digital threats over the long term.

Recommended Laptop for Common Users (40 Users)

Device Chosen: Lenovo ThinkPad T14 Gen 5 Intel (14")

\$1,946.19

Key Specifications:

- **Processor:** Intel® Core™ Ultra 5 125U (12 cores, up to 4.30 GHz)
 - A modern, energy-efficient processor built for everyday multitasking. It includes a hybrid core structure with 4 Performance cores and 8 Efficiency cores, balancing speed with power savings. Its 4.30 GHz Turbo gives smooth responsiveness for productivity and office work.
- **Graphics Card:** Integrated Intel® Graphics
 - The graphics are built into the processor, suitable for tasks like web browsing, office apps, video playback, and basic editing. No need for a separate GPU for common users.
- **Memory (RAM):** 16 GB DDR5
 - High-speed memory (DDR5) that allows for fast multitasking and smooth operation of modern software. 16 GB is more than enough for office tasks, multiple browser tabs, and light creative work.
- **Storage:** 512 GB SSD PCIe Gen4
 - A fast Solid-State Drive with large capacity to store documents, programs, and media files. PCIe Gen4 ensures quick startup, fast file transfers, and efficient performance.
- **Display:** 14" WUXGA (1920 x 1200), Anti-Glare

- A sharp, high-resolution display offering more vertical screen space than standard Full HD (ideal for reading documents). The anti-glare coating reduces reflection for better visibility in bright settings.
- **OS:** Windows 11 Pro
 - professional version of Windows designed for business, with added security and productivity tools. Supports remote work, domain join, and advanced system control.
- **Warranty:** 3-Year Onsite
 - Long-term peace of mind. If something goes wrong, a technician can come to your location for repairs reducing downtime.

Why This Laptop Was Chosen:

The common user group mainly uses their computers for office work, web browsing, emails, and other lightweight applications. This Lenovo laptop meets all the requirements given in the assignment: i3 equivalent processor, at least 4 GB RAM (this model has 16 GB), and at least 256 GB SSD (this model has 512 GB). It is modern, light, and energy efficient.

Additional Features Included:

- Microsoft Office Home & Business 2024
 - Includes Word, Excel, PowerPoint, Outlook the essentials for everyday productivity.
- McAfee® LiveSafe™ (3 years)
 - A trusted antivirus and security suite to protect against malware, phishing, and data theft.
- Adobe Photoshop & Premiere Elements (basic bundle for optional light media tasks)
 - Basic versions of powerful creative tools, useful for light photo and video editing when needed.
- Lenovo Smart Performance (3 years)
 - A system optimization and health tool for maintenance, security, and performance monitoring.
- Lenovo Thunderbolt Dock (optional multi-monitor setup)
 - An accessory that enables connection to multiple monitors and peripherals helpful for expanded workstations.
- Absolute Theft Protection (3 years)

- A security feature that tracks, locks, and helps recover the laptop if it's lost or stolen giving users peace of mind.

Step 3: Note on Cost Efficiency

The assignment does not set a fixed budget, but it emphasizes that we must be thoughtful with our spending. For this reason, I selected the Lenovo brand over other options like Dell because Lenovo offered significant discounts without sacrificing performance.

For the Creative & Coding users, the ThinkPad P1 Gen 7 costs around \$3,142.99 before optional add-ons, which is a strong value considering the workstation-level specifications. Creative and development work demands higher specifications, and investing in high-performance devices reduces the risk of delays and device failure.

For the Common Users, the ThinkPad T14 Gen 5 costs \$1,216.95 which is a great mid-range price for its quality, performance, and warranty support. Choosing Lenovo here helped ensure we stayed under typical business equipment costs, even when adding software and protection plans.

Laptop Recommendation & Cost Summary

User Category	Device Chosen	Unit Cost	No. of Users	Total Cost
Creative & Coding Users	Lenovo ThinkPad P1 Gen 7 (16")	\$4,136.69	10	\$41,366.90
Common Users	Lenovo ThinkPad T14 Gen 5 (14")	\$1,946.19	40	\$77,847.60
Total Cost			50	\$119,214.50

Step 4: Final Recommendation

Using two Lenovo models ensures compatibility across systems, easier IT support, and high reliability for both user types. The laptops meet all technical needs and offer modern features for current and future tasks.

In Summary:

- **10 Lenovo ThinkPad P1 Gen 7** for high-demand Creative & Coding work
- **40 Lenovo ThinkPad T14 Gen 5** for general business and office work

Both are modern, reliable, and supported by a 3-year warranty, offering both performance and peace of mind.

References

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