NAS/SERVER/RAID Suggestions

Revised

- User base: 20 employees in Sales & Marketing, R&D, and IT.
- Growth: Accommodate future workforce expansion.
- Security: Robust data protection and access control.
- Communication: Seamless office-to-central server connection.
- Collaboration: File sharing and streamlined teamwork.
- Business continuity: Reliable backup and disaster recovery.
- IT onboarding: Efficient integration of new employees.

2. NAS Options:

Network-attached storage (NAS) provides centralized storage for file sharing and backup. Here are some options:

- Synology DiskStation DS1522+: A 5-bay NAS with excellent performance, scalability, and ease of use. Ideal for small businesses with growing storage needs.

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- Opens in a new window
- www.pcmag.com
- Synology DiskStation DS1522+ NAS
- QNAP TS-h1887XU-RP-E: A high-performance, rack-mountable NAS with 18 bays for larger businesses with demanding storage requirements.
- Asustor Lockerstor 6 Gen2 AS6706T: A 6-bay NAS with good performance and a user-friendly interface, suitable for small to medium businesses.

- Opens in a new window
- www.amazon.com
- Asustor Lockerstor 6 Gen2 AS6706T NAS

3. Server Recommendations:

For centralized processing and application hosting, consider these server options:

- Dell PowerEdge R650: A versatile rack-mounted server with scalable storage and performance, ideal for growing businesses.

- Opens in a new window
- www.dell.com
- Dell PowerEdge R650 server
- HP ProLiant DL380 Gen10: A reliable and affordable tower server for small to medium businesses, offering good performance and flexibility.

- Opens in a new window
- buy.hpe.com
- HP ProLiant DL380 Gen10 server
- Lenovo ThinkSystem SR650: A powerful and scalable rack-mounted server for larger businesses with demanding workloads.

- Opens in a new window
- lenovopress.lenovo.com
- Lenovo ThinkSystem SR650 server

4. RAID Configuration:

RAID (Redundant Array of Independent Disks) protects data from drive failures. Here are some suitable RAID levels:

- RAID 5: Offers good performance and data protection with one parity drive. Ideal for most businesses.
- RAID 6: Provides greater data protection with two parity drives, suitable for critical data storage.
- RAID 10: Combines mirroring and striping for high performance and redundancy. A good choice for performance-intensive applications.