

6 WAYS TO ELIMINATE IT BOTTLENECKS

White Paper

*Unlocking
Productivity and
Performance with
Cloud-Powered
Infrastructure*

EXECUTIVE SUMMARY

Organizations today are under growing pressure to deliver results faster and more efficiently. However, outdated IT infrastructure and inconsistent support systems often create bottlenecks that hinder performance, collaboration, and profitability.

This white paper outlines six actionable strategies to eliminate IT roadblocks by leveraging modern technologies such as high clock speed cloud desktops, and expert technical support. Whether you're an IT leader, CFO, or business owner, you'll find practical solutions to help your teams perform at their best and scale with confidence.

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THE IT BOTTLENECK PROBLEM

Many professionals rely on powerful, resource-intensive applications that require high-performance hardware, frequent updates, and reliable connectivity. However, organizations often face challenges such as:

- **Underpowered Workstations and Inconsistent Performance:** Legacy hardware and uneven system configurations often struggle to support modern, resource-intensive applications, leading to lags, crashes, and reduced productivity.
- **Challenging Cross-Location Collaboration:** Distributed teams often encounter latency issues, version control conflicts, and delays when working with large or frequently updated files.
- **Inconsistent Desktop Performance:** Variability in user environments results in unpredictable performance when running compute-intensive applications.
- **Prolonged Rendering and Simulation Times:** Extended processing cycles delay deliverables and disrupt dependent workflows, impacting overall project timelines.
- **Delayed Hardware Procurement:** Supply chain disruptions and capital expenditure constraints hinder timely onboarding and limit the ability to scale operations effectively.
- **Overburdened Internal IT Teams:** Routine support and maintenance tasks consume valuable time and resources, limiting focus on high-impact, strategic initiatives.

Beyond hardware limitations, many organizations face “information bottlenecks”, delays in decision-making or execution caused by limited visibility into unresolved tasks or inconsistent communication across roles. These issues often surface in high-dependency workflows where collaboration is critical but fragmented. Overcoming them requires infrastructure that fosters integrated communication, data transparency, and cross-functional accountability.

Emerging research also highlights the potential of integrating advanced visualization tools, such as real-time simulation engines, with digital design and planning systems. These integrations can enhance decision-making, improve collaboration, and streamline complex processes. However, widespread adoption is still limited by challenges like interoperability, scalability, and gaps in integration with advanced technologies such as AI and robotics. Addressing these barriers through scalable IT infrastructure, real-time rendering capabilities, and standardized data protocols is essential to eliminating future bottlenecks.

Left unaddressed, these challenges contribute to reduced productivity, rising operational costs, and missed deadlines.

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6 WAYS TO ELIMINATE IT BOTTLENECKS

1. Move to Industry Optimized Cloud Desktops

Maintaining physical workstations is expensive and restricts your ability to scale. High-performance cloud desktops powered by AMD EPYC processors provide the exceptional speed and power needed for compute-intensive, high clock speed applications:

- Supports DirectX and OpenGL workloads for broad application compatibility.
- Seamless, secure access anywhere via Omnissa (Horizon) or Microsoft Remote Desktop.
- NVMe SSD-backed storage with optimized IOPS for ultra-fast file access and smoother workflows.
- Ability to dynamically assign CPU resources based on user profiles.

2. Centralize Project Data for Real-Time Collaboration

Dispersed storage systems and local dependencies lead to confusion and inefficiencies. A centralized digital workspace enhances collaboration and data accessibility across teams and tools:

- Enterprise-grade storage clusters with daily backups.
- Access control via Active Directory, Entra ID, and role-based permissions.
- Low-latency access through optimized data center peering.
- Metadata capture from collaboration tools to identify workflow bottlenecks.
- Supports integration with real-time engines for immersive project engagement.

3. Scale Resources On-Demand

Project requirements and team sizes can shift quickly. Cloud infrastructure allows you to scale up or down instantly:

- Self-service provisioning with RBAC (Role-Based Access Control).
- Autoscaling compute resources for peak workload demands.
- Seamless integration with Microsoft 365, SharePoint, and Teams.
- Dashboard with metered usage reporting (RAM, CPU, storage).

4. Automate Updates and Security Patching

Manual patching and updates slow down teams and expose firms to risk. A managed environment ensures:

- Automated OS and application patch cycles using RMM tools (e.g., NinjaOne, Atera).
- Endpoint Detection & Response (EDR) solutions like SentinelOne for zero-day threats.
- Application-specific patch policies.
- Full audit logging of changes to maintain compliance with SOC 2 and ISO 27001.

5. Monitor and Optimize Performance with Proactive Support

Real-time monitoring helps IT teams identify and address performance issues before users are affected:

- Session telemetry (GPU load, vCPU throttling, disk I/O latency).
- Alerts for resource thresholds (RAM usage, login delays).
- SLA-backed response and performance trend reporting.
- API integration with platforms like ServiceNow and Autotask for automated ticketing.

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6. Ensure Fast Response Times with 24/7 Technical Support

Delays in technical support can stall critical tasks. 24/7 U.S.-based support ensures users stay productive:

- Tiered support including certified virtualization and application specialists.
- Remote session shadowing for rapid resolution.
- Application-level troubleshooting for popular platforms.
- User-specific documentation for faster resolution of recurring issues.

CONCLUSION & NEXT STEPS

By eliminating IT bottlenecks through scalable, cloud-based infrastructure and expert support, organizations can enhance operational efficiency, reduce risk, and enable teams to perform at their highest potential.

IronOrbit's INFINITY Workspaces are purpose-built for professionals who require speed, security, and reliability for compute-intensive applications. Backed by an enterprise-grade fortified security infrastructure, compliance-ready hosting, and specialized technical support, we help teams work smarter, faster, and from anywhere.

READY TO ELIMINATE IT FRICTION?

Schedule a free consultation to discover how IronOrbit can help you achieve your growth and performance goals with secure, scalable IT solutions.

WHY IRONORBIT?

The client chose IronOrbit for its track record of delivering secure, highly redundant cloud solutions. With a deep commitment to business continuity and 24/7 proactive monitoring and US-based support, IronOrbit provides them with peace of mind, and a technology foundation built for the future.



IronOrbit is Recognized in the 2023 and 2024 Gartner Magic Quadrant for DaaS (Desktop as a Service) and is included in the 2021 & 2023 Gartner Market Guide for DaaS.

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