



# Is Your IT Environment Ready for GenAI?

A Before-and-After Comparison

Most midmarket companies need to modernize their IT environments before they can leverage GenAI or other types of AI. But what does it take to modernize? This table outlines the top-line differences between a traditional hybrid IT environment and a modernized environment that's ready to run AI.

	<b>Before:</b> Traditional IT Environment	<b>After:</b> GenAI-Ready IT Environment
<b>Infrastructure</b>	<p>Your business relies mostly on physical servers located in your office.</p> <p>Scaling up operations means buying and setting up new hardware and managing any limitations related to physical location, server capacity, internet capacity, software platforms, data capacity, etc.</p>	<p>Your business runs mostly on cloud services.</p> <p>You can scale operations up or down quickly and only pay for what you use. You have access to powerful cloud-based resources for AI workloads, which are not limited to a particular set of resources and can provision what you need practically on demand.</p>
<b>Software</b>	<p>Updating your business applications can be a complex process that disrupts operations, and vendor sprawl complicates management.</p> <p>For data analytics, capabilities are limited and often can provide historical insights but lack predictive or real-time capabilities.</p>	<p>You are subscribing to SaaS applications that update automatically and have standard built-in integration capabilities.</p> <p>Modern architecture also provides the ability for predictive analytics, real-time insights, and personalized customer experiences.</p>
<b>Security</b>	<p>You have basic security measures that protect your office network — anti-virus, firewalls, and possibly MFA.</p> <p>Ensuring compliance with regulations is a manual and reactive process, often involving extensive documentation and audits.</p>	<p>You have advanced, automated, auditable security measures that constantly monitor and protect your data and systems from threats.</p> <p>You have set boundaries for who can access your data, including via AI, and compliance is managed through automated systems, ensuring adherence to standards in real time.</p>
<b>Operations</b>	<p>IT teams often operate in a reactive mode, spending a lot of time fixing problems as they arise. Automation is minimal, and many IT processes and management tasks require significant human intervention.</p>	<p>Your IT team uses automated tools and processes to proactively monitor and manage systems proactively, preventing issues from becoming problems that impact operations. Greater efficiency enables your team to focus on strategic initiatives.</p>
<b>Data</b>	<p>Information is scattered across different departments and systems, making it unorganized and unstructured. It's hard to get a complete picture of your business.</p>	<p>Cloud data systems use advanced tools to ingest and analyze structured and unstructured data. Data accessible in cloud infrastructure is ready to be leveraged for productivity, analysis, and decision-making.</p>

If you would like more information about how Leapfrog helps companies modernize their IT environments as part of our holistic [IT and Cybersecurity services](#), we invite you to get in touch.



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