



SOLUTION BRIEF

The “Just Right” Cloud Infrastructure for Digital Start-Ups and Global Enterprises Alike

A guide to securing flexible, affordable, compute-intensive infrastructure to deploy AI and machine learning across your business operations

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What's the big idea?

Start-ups focused on artificial intelligence (AI) applications and global enterprises spinning out AI or other compute-intensive initiatives need an infrastructure-as-a-service (IaaS) partner to run all aspects of their businesses – from the AI and other compute-intensive workloads to the most simple web applications. By partnering with an independent cloud provider that can meet all their needs, businesses can procure IaaS infrastructure at a much more affordable rate compared to the prices charged by the hyperscale cloud providers.

Who should care and why?

CEOs/CDOs/CDAOs

For organizations committed to cloud-based infrastructure, finding a single cloud provider that can address all the organization's IaaS needs while providing global access to solutions and services and making them affordable can mean the difference between failing and thriving.

Heads of Finance

Working with a cloud-based infrastructure provider that is willing to customize its offerings to an organization's specific needs – without forcing it to overprovision and, therefore, overinvest – is an essential aspect of successfully reducing expenses.

Architects

Focusing on composability when assembling an IT infrastructure is key to putting the organization in the best possible position to succeed. Finding an IaaS provider dedicated to helping organizations build a composable infrastructure that addresses the full range of data center infrastructure needs satisfies internal stakeholders, while simplifying the architect's job.

AI and ML Engineers

Working with an IaaS partner means spending more time on the mission-critical aspects of their roles and effectively eliminating time spent managing infrastructure.

The Role of IaaS in Technology Today

As machine learning operations (MLOps) and AI applications become increasingly central to business operations across all sectors, new AI-focused start-ups are emerging and AI and machine learning (ML) initiatives are being spun out of existing companies. These new entities need to be nimble and lean in order to achieve or maintain profitability. They require a broad range of infrastructure options and services to power not only their AI and ML workloads, but also the other aspects of their business.

Relying on on-premises infrastructure is a non-starter. Fledgling entities are unlikely to have either the finances or the expertise to build a data center infrastructure that they will have to manage and scale as the business grows.

The fastest and most affordable way for new companies or new business units to access the infrastructure they need to support their business operations is by partnering with a cloud-based IaaS provider. The right IaaS provider enables users to get to work immediately and focus on intellectual property that drives the business.

Top Seven Benefits of Cloud IaaS

Organizations that choose to source their IT infrastructure from an IaaS provider are able to commit a greater share of their resources to the development of products and services that will grow their business, while relegating the responsibilities for maintaining that infrastructure to the cloud provider. We see seven clear benefits of such an arrangement:

- 1 **Focus on your intellectual property and what differentiates your business** from your competition. The idea of profit from the core has been around for 20+ years, but it still holds true.
- 2 **Avoid the need to attract and retain specialized infrastructure administrators**, who are expensive, in short supply, and can hold outsized influence over the business.
- 3 **Gain agility to scale up, scale out, and scale down** as your business requires.
- 4 **Access the most up-to-date and optimized infrastructure stack** that delivers new applications and technologies.
- 5 **Tap into a complete range of infrastructure and services on demand** that can support every aspect of your business.
- 6 **Secure your operations to ensure they are not compromised**, even during periods of rapid growth and data center build out.
- 7 **Achieve compliance across all parts of the business** to avoid remediation and other challenges that can expose the enterprise to a range of issues.

Choosing cloud infrastructure frees both digital start-ups and global enterprises to focus attention on their products and customers, and to out thinking the businesses in their sector. But without the right cloud provider, their infrastructure investments can rapidly get out of hand.

Getting It “Just Right”

How do you determine what the “just right” cloud infrastructure is for your business? AI-focused start-ups and business units need composability to assemble a tech stack that can address all their infrastructure and services needs today and be flexible and agile to accommodate shifting requirements and/or capacity the moment those needs change.



The fastest and most affordable way for new companies or new business units to access the infrastructure they need to support their business operations is by partnering with a cloud-based IaaS provider.

While the specifics will vary from business to business, getting it “just right” will include:

- Right-sized access to the most robust GPUs engineered for a wide range of AI, ML, and other compute-intensive workloads
- Flexible access to a full range of traditional cloud compute infrastructure and services to manage all other business functions
- Global reach to allow business to flourish wherever it will
- Choice of the best vendors’ products and services while avoiding vendor lock-in
- Affordability to ensure cost is not a limiting factor

An essential aspect to getting it “just right” is avoiding the inflexibility, expense, and lock-in of the hyperscale cloud providers, which despite their size and reputation are often not truly global in their offerings. Fortunately there is an alternative to the hyperscale cloud providers built specifically for the needs of AI-focused organizations.

It’s the independent cloud provider – and partnering with the right one can offer both GPU access to handle your most computationally demanding workloads and CPU-based infrastructure to handle everything else, all with a global footprint that exceeds those of the hyperscalers.

The right independent cloud provider offers easy access to the full range of infrastructure solutions and services your organization needs to run all aspects of the business. Moreover, by offering fractional access to cloud GPUs for running AI and ML workloads – which typically are the most costly aspects for digital start-ups and global enterprises alike – the right independent cloud provider delivers a distinct advantage: not having to commit to costly overprovisioning to secure access to cloud GPUs.

In this way you can scale resources as needed, and avoid spending significant upfront capital on equipment or engaging with one of the traditional cloud providers that will not offer fractional GPU access.

Vultr offers its fractional GPU access for cloud compute on virtual machines or bare metal on six continents and at over 30 data center locations worldwide – wherever your data resides – so you can accelerate a wide range of workloads. That means you can spin up an integrated development environment (IDE) quickly with preferred ML tools, and not be restricted by your location.

You can also gain full access to NVIDIA AI Enterprise. This end-to-end, secure, cloud native suite of AI software accelerates the data science pipeline and streamlines the development and deployment of predictive AI models. Vultr makes NVIDIA’s latest AI innovations accessible and affordable for you.




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Why Vultr Is the “Just Right” Cloud IaaS Provider

Whether your team is working on the next AI-based breakthrough innovation, developing a killer mobile app, or simply creating your company's website (or making all of the above happen concurrently), the right independent cloud provider can deliver the ideal combination of infrastructure and services to power your operations today and scale with you tomorrow.

We ensure that you won't suffer cloud bloat – paying for services and resources you don't need, the rigidity you don't want, and the complexity and lock-in you can't afford. Instead, partner with a global, independent cloud provider that will work with you to shape a package of services fitted to your specific needs.

Vultr offers global availability, flexibility, and affordability to support all aspects of a digital start-up's or an established company's needs. We can assemble the just-right cloud infrastructure for your business.



Give us a call for more information or for how to get started with Vultr for flexible, affordable, global access to NVIDIA GPUs engineered for your compute-intensive workloads.