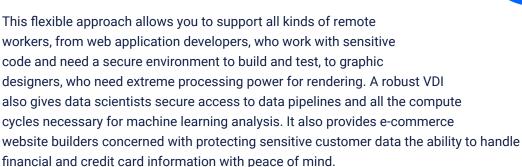SOLUTION BRIEF

Customizable and Affordable Virtual Desktops with Vultr

As remote and hybrid work show few signs of subsiding, more organizations embrace cloud-powered decentralization. However, this decentralized approach creates security concerns as the surface area grows.

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Today's remote employees aren't just using a word processor – they're running heavy workloads like video processing and rendering, or machine learning (ML) training and inference. These workers need high-performance machines to get the job done, and buying a new workstation every couple of years gets pricey.

Virtual desktop infrastructure (VDI) helps teams connect securely and access the compute power they need. The VDI approach streamlines IT management, enhances data security, and fosters workforce flexibility by centralizing data storage, processing, and desktop management in a datacenter or the cloud.

This flexible approach allows you to support all kinds of remote workers, from web application developers, who work with sensitive code and need a secure environment to build and test, to graphic designers, who need extreme processing power for rendering. A robust VDI also gives data scientists secure access to data pipelines and all the compute cycles necessary for machine learning analysis. It also provides e-commerce website builders concerned with protecting sensitive customer data the ability to handle financial and credit card information with peace of mind.

Regardless of the needs of your remote workforce, a proper VDI setup empowers remote workers to succeed.

The challenge of building and maintaining VDI

While you can build and maintain your own VDI, it's a substantial undertaking. You must invest in expensive server hardware with robust processing power, massive storage, and nimble networking capabilities to host and manage virtual desktops. This cost can seem overwhelming to businesses of any size.

Setting up the VDI also requires plenty of specialized IT experience and significant construction time. Then, the equipment needs continuous maintenance and upgrades. It's challenging and expensive to create your own VDI. Fortunately, there's an affordable alternative.

The benefits of Vultr for VDI

Vultr lets you skip the expensive and laborious setup and instead have a ready-made cloud-native VDI solution that is secure and reliable. Our advanced customizability and scalability help you personalize your VDI. Your employees get the remote desktop experience they deserve, giving them a frictionless work environment to maximize their productivity.

The benefits of using this VDI solution go far beyond setup: Your team will always have access to the newest technologies and tools as they are released. Vultr also works continuously to ensure our VDI solutions are secure. We provide more than just the infrastructure – you get the security and peace of mind that come with a fully managed solution.

Setup and changes are quick and easy, and Vultr's 24/7 support means your VDI solution will always be there for you and your team.

Below are just some of the benefits that Vultr's VDI solution provides remote workers.

Customizability

Vultr's VDI solutions are highly customizable, helping you and your employees get exactly the features and performance they need. We offer a suite of complementary tools that provide remote workers with everything they need to work effectively. With its composable architecture, Vultr allows you to mix and match the tools necessary to create the perfect custom environment for each remote worker.

With Vultr, you can power each virtual desktop however you prefer, whether it's for an employee who only needs basic cloud compute options or a ML engineer who relies on the extensive processing power of NVIDIA GPUs. You can even choose powerful A16 and A40 GPUs to ensure you and your remote workers are never short on power.

Plus, you can change these options at any point, only paying for what you use.

▶ **Learn more about Vultr A16s here.**

Customizability goes beyond just the processor in your virtual desktops. Vultr boasts over 30 data centers around the globe, so you can select the physical location that will best support your VDI implementation. Choosing a location close to your end users takes advantage of edge computing to maximize connection speed and reliability. With so many choices, there is a convenient location, no matter where your workers live.

Affordability

The setup costs of on-premises hardware and the burden of ongoing maintenance can be a barrier to building your VDI. Instead, you can leverage Vultr's powerful cloud infrastructure to deploy and access virtual desktops, cutting setup and maintenance costs.

The simplified approach to deploying and managing customized desktops reduces overhead. Then, monitoring tools help your IT department ensure each worker can access the necessary equipment while staying within budget.

Scalability

With Vultr, you can scale as your organization grows. Use Vultr's on-demand resources, including compute, storage, and networking capabilities to quickly allocate or release resources as needed. You can scale your virtual desktop environments effortlessly in response to changing requirements.

The automated provisioning system allows for quick and straightforward deployment of virtual desktops, resulting in easy scaling. Since the pricing is pay-as-you-go, you'll never worry about overpaying for unused resources.

Vultr's global network lets you scale in any location while maintaining performance. You can add tools and services as needed using robust APIs and a variety of integrations, making it even easier to grow.

As customizable GPUs and CPUs power your virtual desktops, you can scale each desktop's resources up or down as needed.

Security and reliability

Vultr's cloud-based VDI solution includes advanced security features to safeguard sensitive data. These features include automatic backups that take snapshots of virtual desktop environments regularly. Backups like these help preserve your data integrity, enabling you to recover data that was accidentally deleted, corrupted, or targeted by a ransomware attack.

To support remote workers, it's critical (especially when dealing with advanced workloads) to maintain proper backups. Learn more about Vultr Object Storage for automatic backups here.

In addition to the robust security measures, Vultr's disaster recovery features and high availability promote reliability. Disaster recovery is vital for maintaining business continuity and minimizing downtime during hardware failures, natural disasters, or security breaches. We designed our infrastructure to help you quickly and efficiently recover all your virtual desktops so you can get back to business as soon as possible.

Vultr's global network of data centers and redundant infrastructure components promote high availability. You can optimize your virtual desktops' performance and uptime while keeping the VDI running through any challenges.

This combination of advanced security and reliability features makes Vultr's cloud-based VDI solution an ideal choice to protect your data and ensure a consistently high-performance user experience.

Additional tools

While VDI is a great start, there's so much more when it comes to creating a complete solution that enables your remote workers. Any worker that needs to deal with sensitive information – code, financial or personal information, and valuable data – requires extra protection in the form of a VPN solution.

VPNs let your e-commerce developers and data scientists work anywhere in the world with the knowledge that their connection is completely secure. With malicious attacks on the rise since the pandemic, you need to ensure your remote workers handling sensitive information have the protection they need.

In addition to a VPN, let your e-commerce developers operate at their full capacity with the latest Edge Computing technology. That way you can compete in the competitive e-commerce world by being able to serve clients at their location.

Modern web developers need access to modern tools to produce the most sticky of web apps, which increasingly means access to blockchain tools. By enhancing your developers' VDI solution to include access to everything blockchain, they can build sophisticated Web 3.0 applications remotely.

Both e-commerce sites and modern web apps need the support of high quality video and images to pop. Remote VFX employees require huge processing power to complete their tasks. Vultr has a tailor-made solution for your creative team that gives them remote access to both whole and fractional GPUs. Combined with a VPN and the proper VDI setup, your creative employees have all the functionality and processing power they would have if working onsite.

More companies are finding ways to gain an edge through machine learning, and Vultr offers a complete suite of infrastructure for successful ML applications. A Vultr VDI setup allows you to provide secure access to these tools from anywhere in the world, turning your virtual desktop into a powerful ML environment suitable for creating paradigm shifting artificial intelligence applications.

VULTR

The Vultr approach

You can enjoy peace of mind as we monitor and maintain your VDI infrastructure. Vultr's 24/7 customer service and dedicated support team help promptly address and resolve any technical issues or concerns, ensuring minimal disruption to your daily operations. This around-the-clock service helps you focus on your core objectives while the VDI solution remains secure, stable, and readily available.

Our flexible and scalable approach to VDI won't lock you into rigid contracts or configurations. The platform's agnostic, API-centric design guarantees seamless integration with various systems, making it adaptable to your organization's unique needs.

This flexibility extends to Vultr's pay-as-you-go pricing. You can scale resources as needed without spending more than necessary. This customizable and adaptable VDI solution lets you tailor your virtual desktop infrastructure to your evolving needs without the constraints of traditional, inflexible contracts or technology platforms.

Building your VDI the easy way

Vultr's VDI solution is ideal for any company seeking the benefits of virtual desktops without the headache and cost of constructing and maintaining the necessary infrastructure. Our flexible approach helps you find the exact VDI performance and options you need for your unique situation.

Our cloud-native solution handles setup, maintenance, scalability, and security for far less than the cost of a custom-built solution. Even small teams on a limited budget can enjoy an enterprise-level VDI environment.

Remember that VDI is just the starting point. Vultr's composable architecture approach allows you to customize remote experiences for employees by integrating things like VPN, VFX tools, blockchain technology, and more into their VDI environment.

▶ **Your team deserves the best remote experience possible for the lowest price possible. Contact Vultr today to get started with a customizable VDI setup.**