

CASE STUDY

Vultr Victories: Neverinstall's virtual PCs boast global success

Under the leadership of its CEO and co-founder, Lakshman Pasala, [Neverinstall](#) is redefining the potential of cloud computing. Harnessing the power of virtualization technologies like Docker and Kubernetes and employing Web Real-Time Communications ([WebRTC](#)) to stream GUIs to customers, the company provides its users with access to potent virtual personal computers through an easy-to-use web interface.

The company has a broad customer base, but it primarily targets performance-intensive users like designers and developers. By providing them with high-performance computing access without substantial upfront investment in physical hardware, Neverinstall is helping open up new horizons.

The challenges of the cloud frontier

As an early player in this emerging field, Neverinstall faced some unique challenges. With an average of 7,000 to 10,000 users per day, most of whom were international, Neverinstall needed a global cloud provider to minimize latency for end users. Without instances in various locations around the globe, Neverinstall found it challenging to provide its users with the required responsive service.

Alongside the need for a worldwide network of cloud instances, Neverinstall had several other essential requirements to operate efficiently, including spinning up virtual machines (VMs) quickly and easily and having them available for long periods. VMs allow companies like Neverinstall to run multiple applications and processes concurrently on a single physical machine. The speed at which these VMs operate can significantly affect the performance of Neverinstall's service. Readily accessible VMs were critical to ensure rapid data processing and real-time response to user inputs.

The company's operations were also highly data-intensive, leading to another concern – egress costs. Given the voluminous data that Neverinstall processes daily, these costs could quickly escalate. A related need was a pricing model based on actual usage rather than preset time brackets. This concept is essential, as cloud service usage can vary significantly from one period to another. A time-bracketed pricing model could result in the company paying for unused service time during periods of lower use.

Service availability is paramount to Neverinstall's success, so they needed to ensure high timeouts on load balancers to prevent service disruptions even during high-traffic periods. This approach aids in load distribution, ensuring the user experience remains smooth and efficient.

The necessity for an auto-healing mechanism cannot be overstated. This advanced feature allows Neverinstall's systems to detect and rectify faults like network unreachability or hardware failure. The result is reduced downtime, sustained integrity of user data, and enhanced service reliability. Auto-healing guarantees that operations are back on track swiftly, even in the face of unexpected disruptions.



Neverinstall

Industry
VDI

About Neverinstall
Neverinstall streams your favorite apps in an unequalled personal cloud computer with powerful compute features and a native-like experience.

Neverinstall and Vultr: A synergistic solution

In the quest to tackle these intricate challenges, Neverinstall found a reliable partner in Vultr. Their collaboration allowed Neverinstall to harness Vultr's advanced tools and services, including [VMs](#), [load balancers](#), [block storage](#), and [bare metal instances](#). The strategic partnership was vital in enabling Neverinstall to deliver its services smoothly, efficiently, and uninterruptedly.

The company's operations were based primarily on Cloud Compute VMs – emulated versions of physical computers that reside on a cloud, offering the ability to run multiple applications and processes concurrently on a single physical server. This unique ability allowed Neverinstall to multitask, improving its operations' efficiency. Bare metal instances, physical servers dedicated to a single tenant, were reserved for their 32-core machines. This approach ensured optimal performance by dedicating these powerful servers' resources to Neverinstall's demanding workloads.

Vultr's [extensive global presence](#) proved immensely beneficial to Neverinstall. The widespread distribution of Vultr's servers helped reduce the data travel distance, minimizing latency and making Neverinstall's services more responsive for its international customer base. The global reach of Vultr ensured that Neverinstall's customers would have a seamless user experience free from lags and delays, no matter where they resided.

"The cost-effective solutions with Vultr helped us scale," Pasala said. The combination of Vultr's powerful, readily available VMs and these cost-effective solutions enabled Neverinstall to scale its operations and keep pace with its expanding user population. Robust features like machine auto-healing proved indispensable for Neverinstall. This functionality offered an automated solution to potential system failures like network reachability issues and hardware malfunctions. The proactive mechanism ensured minimal service disruption and a consistently high-quality experience for Neverinstall users, reaffirming the company's commitment to customer satisfaction and reliability.



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– Lakshman Pasala, CEO and Co-Founder, Neverinstall

The impact of the Neverinstall-Vultr partnership

The results of this partnership have been impressive. "We save almost 50 percent when using Vultr compared to the rest of cloud service providers," said Pasala, "including a quarter of the egress cost." This affordability has been a crucial factor in enabling Neverinstall to provide cost-effective computing solutions to its customers.

Pasala praised Vultr, sharing, "Experience with Vultr has truly been unparalleled in our journey as a deep tech cloud company. We've consistently been impressed with not only the transparency and affordability of their pricing structures but also the robustness and reliability of their network services."

"Vultr not only meets these requirements but exceeds our expectations in every dimension. Their commitment to excellence, backed by a seamless user experience and top-tier customer support, solidifies our belief in them as an industry leader. We're proud to be powered by Vultr and look forward to our continued collaboration," Pasala said.

With the help of Vultr's infrastructure, Neverinstall can continue to showcase how technology and innovation can push the boundaries of what is possible, enabling access to high-performance computing for a wider audience and driving the future of cloud computing.

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Lakshman Pasala
CEO & Co-Founder,
Neverinstall

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