

DATASHEET

Vultr Kubernetes Engine

Deploy and scale containerized apps
with a fully managed service.



VULTR

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An easier way to operate and scale containerized applications

INTRODUCTION

Since its initial development in 2014, Kubernetes has become the standard for automating deployment, scaling, and managing containerized applications. At the intersection of Kubernetes lies the robustness of Vultr's cloud platform. Businesses can now realize a seamless and efficient container orchestration experience across the globe.

WHY IT'S IMPORTANT RIGHT NOW

As businesses evolve and digital transformation accelerates, the need for a flexible, scalable, and efficient container management system becomes paramount. Kubernetes' unparalleled capabilities to manage and scale containerized applications have made it a must-have for modern businesses. With cloud integration, especially on Vultr's platform, Kubernetes ensures a harmonious environment for developers to deploy, manage, and scale applications in line with dynamic business requirements.

A DEEP DIVE INTO OUR KUBERNETES OFFERING

Vultr Kubernetes Engine

Harness the potential of containerized applications with the Vultr Kubernetes Engine (VKE). A fully managed service, VKE mitigates Kubernetes' inherent complexities, ensuring operational confidence and scalability. With features like container orchestration, no management fee for the control plane, and resilient infrastructure that maximizes resource allocation, VKE stands as the definitive solution for modern deployment needs.

Vultr Container Storage Interface

Persistent storage is critical for many containerized applications, and Vultr's container storage interface (CSI) is your gateway. Connecting your Kubernetes cluster to Vultr's high-speed block storage solutions ensures that your applications have fast, reliable, and scalable storage. Whether you're dealing with databases that need to retain state or apps that require data persistence beyond the life of a single container, the CSI ensures your data is there when you need it.

Vultr Cloud Controller Manager

The Vultr Cloud Controller Manager (CCM) is central to optimized Kubernetes deployments on Vultr. By actively monitoring node states and automating IP address assignments, alongside deploying Load Balancers in response to Kubernetes service demands, VKE users can experience seamless integration and reduced operational overhead. This ensures a direct alignment of Kubernetes operations with the inherent advantages of Vultr's infrastructure.

Enhanced Integrations

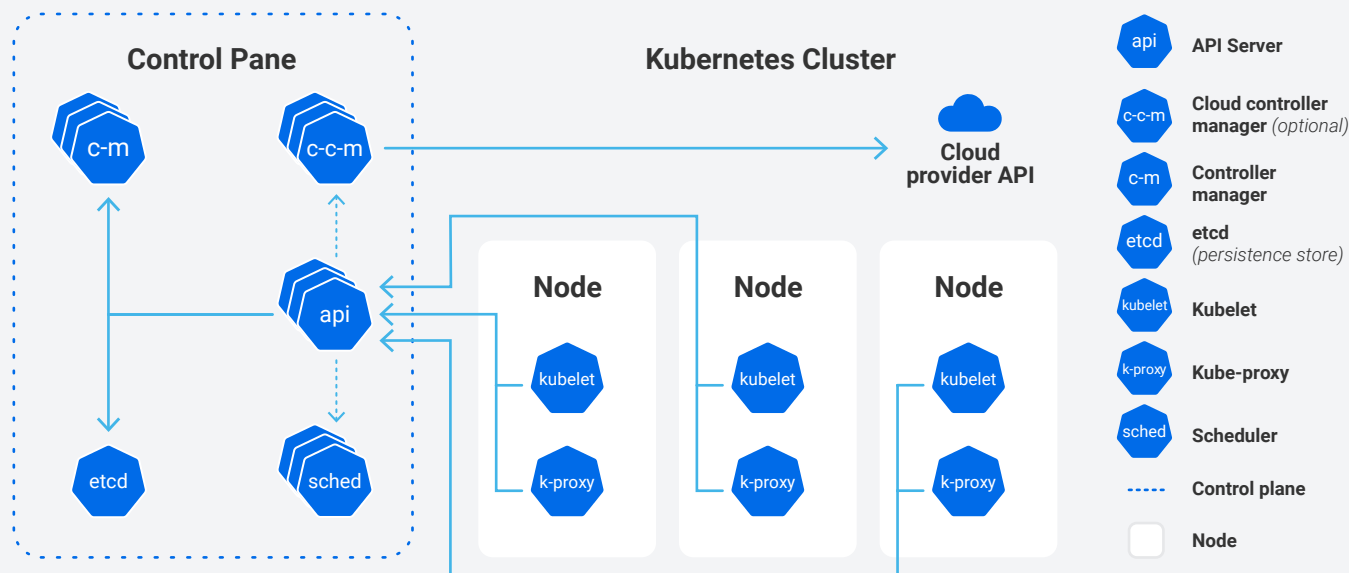
Elevate your Kubernetes operations one step further by tapping into a variety of specialized integrations. From automated deployments and domain name synchronization to dynamic cluster scaling and automated TLS management, our suite of integrations is tailored to elevate efficiency and ensure robust security.



CNCF Certified

Vultr Kubernetes Engine (VKE) is certified by the Cloud Native Computing Foundation (CNCF) Certified Kubernetes Conformance Program. You can quickly move your workloads to Vultr because VKE conforms to portability standards. Vultr is a silver sponsor of the CNCF, where Kubernetes is a Graduated Project.

POWERFUL ADD-ONS



KEY BENEFITS

- Hassle-free management:** Dive into Kubernetes without being bogged down by its intricacies. With VKE, the complexity of container orchestration is simplified, enabling you to focus on scaling and deploying applications with unparalleled confidence. Gone are the days of manually wrestling with cluster configurations — VKE does the heavy lifting.
- Unmatched value:** Get a leg up on competitors with VKE's distinct financial advantage: a cost-free control plane. There are no hidden charges or unexpected management fees. Coupled with transparent pricing for worker nodes, Load Balancers, and Block Storage, VKE offers a predictably economical Kubernetes solution, ensuring your investments are directly tied to tangible resources and functionalities.
- Resilient infrastructure:** VKE's architecture is inherently designed for resilience. You're equipped to offer non-stop service with automated health checks and failover mechanisms. As workloads evolve, VKE seamlessly scales, ensuring optimal resource allocation, efficient performance, and consistent user experiences.
- CNCF-certified reliability:** Elevate your operations and peace of mind with the CNCF seal of assurance. Being certified by the CNCF is not just a badge — it's a commitment to global standards and reliability. Software conformance ensures that VKE supports required APIs. Using VKE, you can expect true interoperability from one installation to the next, guaranteeing smooth workload migrations to Vultr and aligning your operations with global best practices.
- Enhanced with value-driven tools:** VKE isn't just about Kubernetes; it's an entire ecosystem. Benefit from integrated tools like the Vultr Cloud Controller Manager for seamless feature integrations as well as the Vultr Container Storage Interface, ensuring persistent, high-speed storage. These tools converge to offer a holistic Kubernetes experience, refined and optimized for diverse operational needs.
- Versatile storage:** With VKE, storage isn't just about capacity; it's about choice and performance. Whether your applications demand HDD storage spanning from 40 GB to 40 TB or seek the blistering speeds of NVMe storage ranging from 1 GB to 10 TB, VKE delivers. Adapt to regional availability and tailor storage solutions that perfectly match your application needs without compromising on performance.

THE FUTURE OF CONTAINER ORCHESTRATION

VKE ushers in a better way to optimize container orchestration. Businesses can now effortlessly manage their applications, ensuring they are ready for the challenges of today and tomorrow.

Learn more about [Vultr Kubernetes Engine](#) or [contact sales](#) to get started.