

Nova - ADC for Modern Applications



Next-gen software load balancers are designed with Agile and DevOps in mind, so most come packaged as part of a larger application delivery controller (ADC).

ADCs combine tools to facilitate fast, frequent, and reliable application delivery, regardless of changes in traffic demand. Servers can be added or removed with a few clicks to accommodate peak traffic times and unexpected surges.

Snapt develops high-end solutions for application delivery. We provide load balancing, web acceleration, caching and security for critical services. Our products and services are designed to improve and protect our clients' applications, whether on-prem or in the cloud, while providing fast delivery and a stellar customer experience. We work with some of the biggest companies in the world to ensure their websites and services are always online, fast and secure.

SOLUTION ARCHITECTURE/HOW IT WORKS

Nova is a cloud-based (or on-premise) SaaS application delivery controller. It provides the same level of service you expect from traditional ADC (load balancing, acceleration, WAF), but from a central, cloud-based control panel. Nova is designed for massive scale: it can handle thousands of ADCs per client, auto-scale, and more.

Nova is a hyperscale-ready, centralized platform for deploying, controlling and monitoring ADCs at scale.

It removes the cost and complexity from the data-plane, while shifting the value to the control-plane – enabling you to manage all your ADCs from a single, intelligent platform. Nova provides dynamic, self-scaling ADC deployments capable of massive scale and automation, with a focus on the telemetry and quality of your services. It is time for a hyperscale-ready ADC that fits into the flexible fabric of applications and data.

“We are happy to say that Snapt has never had a single glitch that could result in downtime.”

– Felipe Cruz Ferrero, RackNation

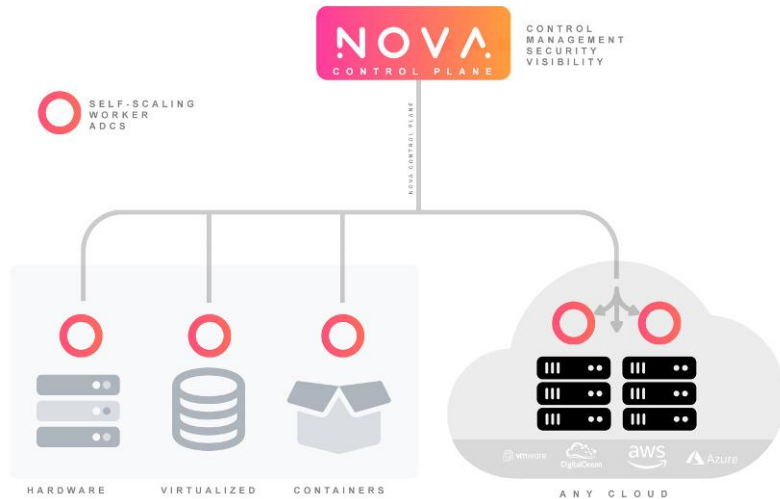
KEY SOLUTION BENEFITS

For DevOps, Developers and Infrastructure IT at companies embracing digital transformation and migrating workloads from legacy load balancers to a more modern app delivery fabric.

- Full-stack ADC: load balancer, web accelerator, WAF and GSLB.
- Centralized control: the Nova Cloud provides centralized deployment, configuration, reporting, monitoring, and more.
- Multi-location: Nova ADCs can run in multiple locations and in any cloud, container or VM, simultaneously.
- Hyperscale: scale to tens or thousands of nodes with near-zero latency. Automatically scale out / scale in as you need.
- Cloud-native: designed for containers and microservices, with automated service discovery for Kubernetes, Consul, Docker, etc.
- Machine-learning and AI: adapts to your network to predict and overcome bottlenecks, failures and threats.

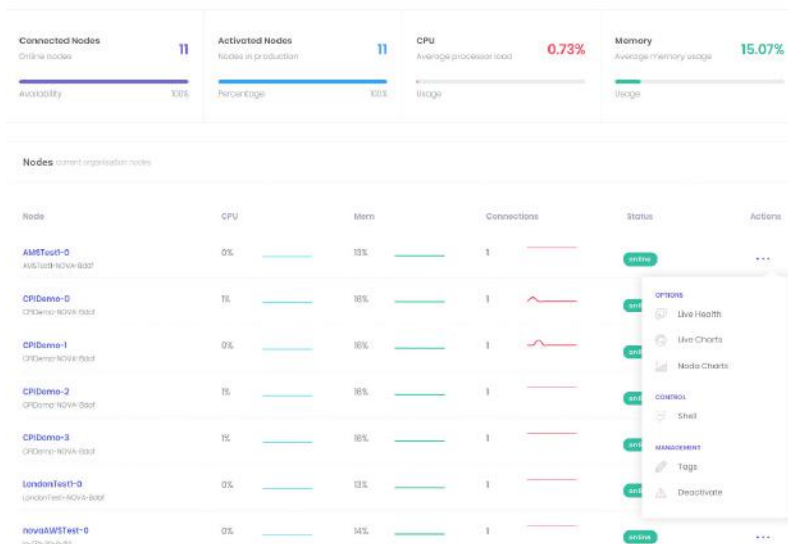
Nutanix Ready Validation

- Nova ADC 1.0 is validated on Nutanix AoS/AHV 5.15 LTS



Nodes

Nodes on Nova ADC are installations of the Nova Client on VMs, Servers, or inside Containers. They are systems that are controlled by Nova ADC in order to deploy ADCs. When you add a Node you are actually creating a Name, UUID and Secret Key for a Nova Client to identify as. These will be passed to your containers, or saved in your config file on VMs and Servers.



ADC

An ADC or Application Delivery Controller is a Layer 7 Load Balancer with HTTP and SSL acceleration, Web App Firewalling and other security features.

In Nova one or more ADCs can be attached to one or more Nodes. This allows you to effectively link an ADC configuration with a set of Nodes to run it on.

ABOUT NUTANIX

Nutanix makes infrastructure invisible, elevating IT to focus on the applications and services that power their business. The Nutanix enterprise cloud platform delivers the agility, pay-as-you-grow economics and operational simplicity of the public cloud, without sacrificing the predictability, security and control of on-premises infrastructure. Nutanix solutions leverage web-scale engineering and consumer-grade design to natively converge compute, virtualization and storage into a resilient, software-defined solution that delivers any application at any scale. Learn more at www.nutanix.com or follow us on Twitter [@nutanix](https://twitter.com/nutanix).

Backends

Nova ADC nodes use Backends to discover what servers to send the traffic to once processed. In its most simple form a backend is one or more IP addresses that Nova load balances to. These can also be discovered in more advanced ways.

RESOURCES AND GETTING STARTED

- <https://nova.snapt.net/docs/1.0/overview>
- <https://www.nutanix.com/partners/technology-alliances/snapt>
- <https://nova.snapt.net/>



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