

Kaminario Flex Orchestrating the Cloud Storage Infrastructure

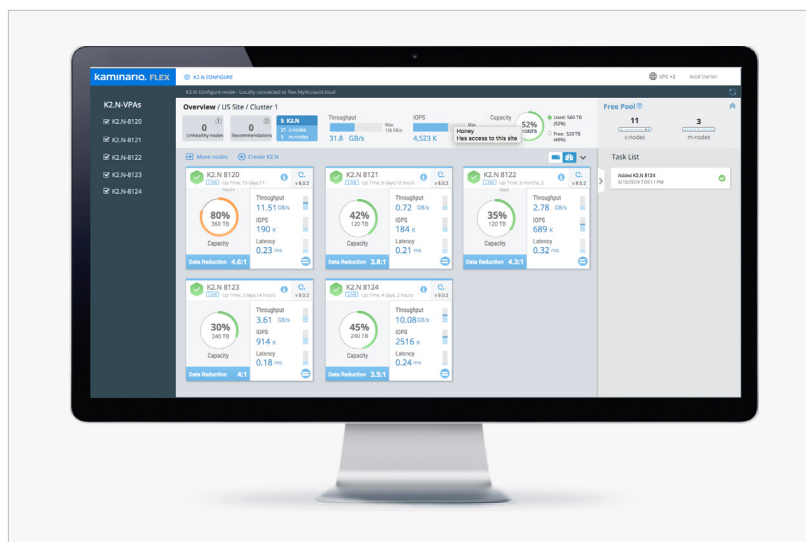
kaminario.

FLEX

is a unique
software-defined
architecture
to automate
datacenter
orchestration

Automate. Integrate. Orchestrate.

Kaminario Flex delivers the ability to monitor, manage and allocate storage controllers (c.nodes) and NVMe flash storage media (m.nodes) at a logical level to build shared storage resources that deliver industry-leading all-flash capability. These logically associated c.nodes and m.nodes are known as the Kaminario K2.N and deliver enterprise class storage capabilities but with a game-changing level of flexibility.



Automation and Orchestration

Designed to eliminate manual tasks, Flex delivers a new level of datacenter automation and orchestration – based on business and workload requirements. A rich set of machine learning algorithms, coupled with priority policy based capabilities ensure both - extreme resource flexibility, as well as the most efficient approach to resource allocation and utilization.

NVMeOF enables Flex to easily orchestrate storage resources, both c.nodes and m.nodes, as needed. Changing requirements is a reality of the datacenter – with Flex users can associate unused c.nodes with m.nodes to create new K2.Ns; or automatically move resources from one K2.N to another based on pre-defined capacity and performance SLAs.

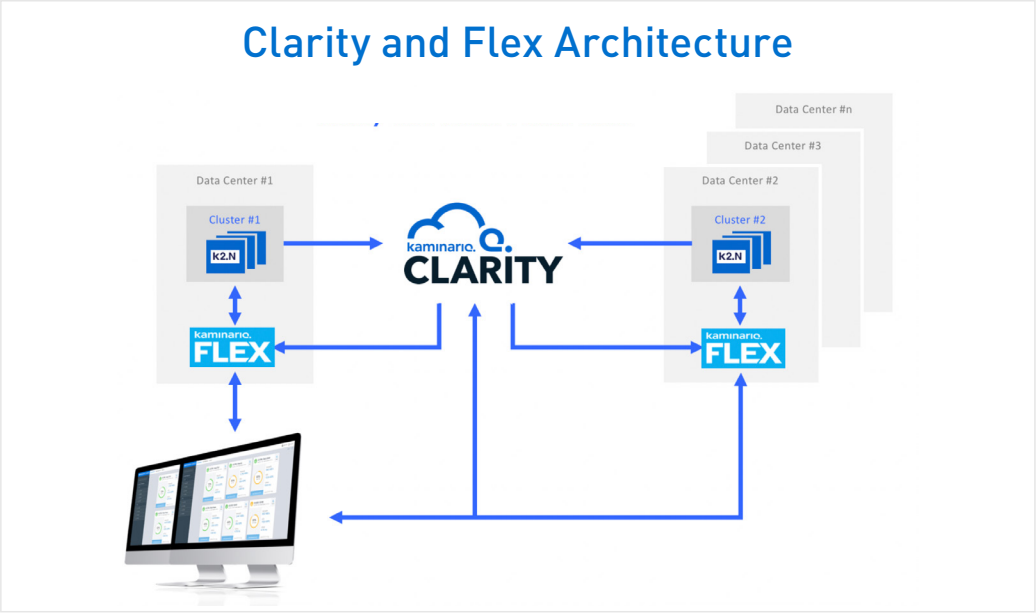
Users can also leverage policy based features to replace broken components and, de-commission unused components, returning them to the “free” pool and making them available for other K2.Ns if needed.

Finally, Flex delivers the ability add new storage resources to their datacenter on the go, needing only to cable up the new components. Flex then automates the process of installing and presenting the new components to the storage fabric.



Flex leverages the millions of historical data points gathered by Clarity to enhance its machine learning and artificial intelligence capabilities:

- Automated c.node and m.node resource allocation based
- Automated maintenance policies based on resource health
- Delayed maintenance schedules in unmanned datacenters



Kaminario Flex™ – Orchestrating the Cloud Storage Infrastructure	
Real Time Resource Allocation	Dynamically reallocate storage controllers and storage capacity between K2.Ns that share the same converged NVMeF backend. No physical movement needed – its all in the software
Scheduling	Automatic, suggestion-based, API driven, 15 minute granularity
Scale UP/Out/In/Down	K2.N arrays can grow and shrink according to business needs. Resources are highly utilized on the shared K2.N platform
New K2.N Creation	Carve out new K2.N storage resources from the NVMeOF resource mesh, add resources to existing resources set as needed
DAS Orchestration	Monitor, and orchestrate direct attached storage (DAS) media or JBOFs that are connected to the NVMeOF network within the datacenter
Containerized Orchestration	Create, assign, and manage storage resources on the fly. Create c.nodes within containers leveraging Kaminario’s RESTful APIs and CSI plugin integration

About Kaminario

Kaminario delivers a Storage as a Service (STaaS) platform for business-critical applications hosted on and off premises. Software composable architecture combined with advanced analytics and automation let our customers realize the agility and simplicity of public cloud while gaining the performance and control of dedicated infrastructure. With disruptive economics, Kaminario delivers flexible, consumption-based licensing that aligns with our customers’ business priorities. Headquartered outside of Boston, Kaminario works globally with a network of strategic partnerships. For more information, visit www.kaminario.com.

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