



Kuryr integration into OpenShift

BigDataStack Software Component developed by RedHat

Provides easy deployment and management of KuryrSDN on OpenShift 4.X cluster on top of OpenStack VMs.

Input

Users use out of the box NVMe drivers

Initial TRL

TRL 1

Output

Virtual NVMe driver provided to the VMs

Final TRL

TRL 7

End Users

Kernel module which implements a virtual NVMe device which VMs can use as a drop-in replacement for PCI assignment

Key Features and Benefits

Allows sharing of NVMe device between server VMs. Simple configuration. Roughly the same performance as SPDK (95% of native).



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Essential Information for Users

Being proposed upstream for the Linux kernel. Unclear if it will be accepted at its current form.

Implementation in BigDataStack Use Cases

Kuryr integration into OpenShift applies to all three BigDataStack use-cases in terms of all components accessing local disk on the VMs may benefit from it.

How can the BigDataStack component contribute to Standardization foundations or initiatives?

If merged on the Linux kernel it will be available on every Linux distribution with a recent kernel version.

Differentiators from competitors in the market

All the functionalities (features, operators and drivers) are open sourced and developed upstream within their related project communities. This means with cooperation with other companies (i.e., providing feedback, reviews, requirement).