



Docker Containers

On Linux, Docker uses resource isolation of the Linux kernel, to allow independent "containers" to run within a single Linux kernel instance.

Docker containers are supported on MLNX-EN using Docker runtime. Virtual RoCE and InfiniBand devices are supported using SR-IOV mode.

Currently, RDMA/RoCE devices are supported in the modes listed in the following table.

Linux Containers Networking Modes

Orchestration and Clustering Tool	Version	Networking Mode	Link Layer	Virtualization Mode
Docker	Docker Engine 17.03 or higher	SR-IOV using sriov-plugin along with docker run wrapper tool	InfiniBand and Ethernet	SR-IOV
Kubernetes	Kubernetes 1.10.3 or higher	SR-IOV using device plugin, and using SR-IOV CNI plugin	InfiniBand and Ethernet	SR-IOV
		VXLAN using IPoIB bridge	InfiniBand	Shared HCA

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