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SINGLE-ROOT INPUT/OUTPUT VIRTUALIZATION (SR-IOV) WITH LINUX CONTAINERS ^[1]

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Virtualization is a technology offering an abstraction layer between software and hardware. It can emulate a hardware platform in order to provide the operating system abstractions of various resources. It is also a means to easily manage hardware resources and to run services in the cloud. One of the main disadvantages of the traditional hypervisor-based virtualization is, however, that it introduces a large overhead with respect to memory and CPU1 usage. Linux* Containers (abbreviated to LXC) is a lightweight alternative to the traditional approach, providing separation of namespaces and file systems while running all processes on a single kernel. Combined with Single-Root Input/Output Virtualization (abbreviated to SR-IOV) it can provide a solution that allows the containers to appear in the network as separate compute-nodes with exclusive MAC2 addresses, while sharing one link and physical network adapter.

Link:

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Copy of the coverage:

 [Single-Root Input_Output Virtualization \(SR-IOV\) with Linux Containers _ Myinforms.pdf](#) ^[3]

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Links

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