Comparative Test of Folding Container Network Connection Types

Overview

What are container networking standards?

Container networking standards provide a well-defined interface or API that establishes communication between container runtimes and network plugins. There are various container networking standards available, which enable you to decouple networking from the container runtime.

What is container networking?

Container networking allows containers to communicate with other containers or hosts to share resources and data. Modern container networking aims to standardize and optimize container data flows, creating zones of isolation that allow large numbers of containers to communicate in an efficient and secure manner.

Which network models are used in Docker & Kubernetes?

The following network models are used by popular container platforms such as Docker and Kubernetes: None – The simplest mode of networking is a loopback interface in which the container does not communicate with an external network. Bridge – An internal host network that enables communication between containers on the same host.

What is a container Network Interface (CNI)?

Labels enable the runtime to inform driver behavior. The Container Network Interface (CNI) is a standard proposed by CoreOS. It was created as a minimal specification that works as a simple contract between network plugins and the container runtime. CNI whas been adopted by many projects, including Apache Mesos, Kubernetes, and rkt.

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