Container Runtime Engine

In Kubernetes





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Container Runtimes

Note: Dockershim has been removed from the Kubernetes project as of release 1.24. Read the Dockershim Removal FAQ for further details.

You need to install a container runtime into each node in the cluster so that Pods can run there. This page outlines what is involved and describes related tasks for setting up nodes.

Kubernetes 1.29 requires that you use a runtime that conforms with the Container Runtime Interface (CRI).

See CRI version support for more information.

This page provides an outline of how to use several common container runtimes with Kubernetes.

- containerd
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Kubernetes releases before v1.24 included a direct integration with Docker Engine, using a component named dockershim. That special direct integration is no longer part of Kubernetes (this removal was announced as part of the v1.20 release). You can read Check whether Dockershim removal affects you to understand how this removal might affect you. To learn about migrating from using dockershim, see Migrating from dockershim.

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https://kubernetes.io/docs/setup/production-environment/container-runtimes/



Container Runtime docker **kubernetes** Container Runtime Interface (CRI) CRI-O containerd Open Container Initiative (OCI) - runc

Containers



- https://kubernetes.io/docs/setup/production-environment/container-runtimes/
- https://phoenixnap.com/kb/docker-vs-containerd-vs-cri-o
- https://www.tutorialworks.com/difference-docker-containerd-runc-crio-oci/

