

Developing Container Applications with VMware vSphere Integrated Containers

vSphere Integrated Containers

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Developing Container Applications with vSphere Integrated Containers

Developing Container Applications with vSphere Integrated Containers provides information about how to use vSphere Integrated Containers as the endpoint for Docker container application development.

Product version 0.4.0

NOTE This book is a work in progress.

Intended Audience

This information is intended for container application developers who's Docker environment uses vSphere Integrated Containers as its endpoint. Knowledge of [container technology](#) and [Docker](#) is assumed.

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Supported Docker Commands

vSphere Integrated Containers supports these container operations.

Container	Docker Reference	Supported in 0.4
Docker run	Composite command of create, start, inspect, attach, rm	Yes
Docker create	Create a container	Yes
Docker inspect	Inspect a container Inspect an image	Yes
Docker start	Start a container	Yes
Docker attach	Attach to a container Attach to a container websocket	Yes
Docker rm	Remove a container	Yes, only the <code>name</code> parameter is supported. <code>force</code> and <code>v</code> are a future implementation
Docker info	Docker system information	Yes, docker-specific data, basic capacity information
Docker version	Docker version information	Yes. vSphere Integrated Containers version provided
Docker container resize	Resize a container	Yes
Docker stop	Stop a container Stop	Yes. Powers down the VM
Docker images	Images list-images	Yes
Docker ps	Show running containers	Yes
Docker logs	Get container logs	No, onsite beta
Docker restart	Restart a container Restart	No, onsite beta
Docker kill	Kill a container Kill	No, onsite Beta. Use Docker stop
Docker Container list	List Containers	TBD

Network	Docker Reference	Supported in 0.4
Network create	Create a network	Yes. See the use case to connect to an external network in vSphere Integrated Container for vSphere Administrators. Bridge is also supported.
Network ls	List networks/	Yes
Network inspect	Inspect a network	Yes
Network connect	Connect to a network	Yes
Network rm	Remove a network	Yes

Volume	Docker Reference	Supported by 0.4
Docker volume create	Create a volume	Onsite beta
Docker volume ls	List volumes	Onsite beta
Docker volume rm	Remove a volume	Onsite beta

Commands	Docker Reference	Supported version
Link	Link	TBD
Docker export	Export a container	Future release
Docker save	Save images	Future release
Docker stats	Get container stats based on resource usage Stats	Future release
Docker update	Update a container Update	Future release
Docker rename	Rename a container Rename	Future release
Docker pause	Pause processes in a container Pause	Future release
Docker unpause	Unpause processes in a container Unpause	Future release
Docker cp	Copy files or folders in a container Copy	Future release
Wait	Wait for a container Wait	Future release