## What is a Container?

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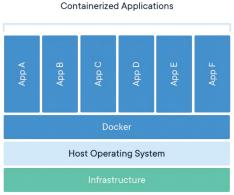




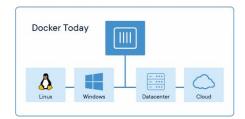
## What is a Container?

A container is a standard unit of software that packages up code and all its dependencies so the application runs quickly and reliably from one computing environment to another. A Docker container image is a lightweight, standalone, executable package of software that includes everything needed to run an application: code, runtime, system tools, system libraries and settings.

Container images become containers at runtime and in the case of Docker containers - images become containers when they run on Docker Engine. Available for both Linux and Windows-based applications, containerized software will always run the same, regardless of the infrastructure. Containers isolate software from its environment and ensure that it works uniformly despite differences for instance between development and staging.



Docker container technology was launched in 2013 as an open source Docker Engine. It leveraged existing computing concepts around containers and specifically in the Linux world, primitives known as cgroups and namespaces. Docker's technology is unique because it focuses on the requirements of developers and systems operators to separate application dependencies from infrastructure.





Success in the Linux world drove a partnership with Microsoft that brought Docker containers and its functionality to Windows Server (sometimes referred to as Docker Windows containers).

Technology available from Docker and its open source project, Moby has been leveraged by all major data centre vendors and cloud providers. Many of these providers are leveraging Docker for their container-native laaS offerings. Additionally, the leading open source serverless frameworks utilize Docker container technology.

Please, check out the application of Containers in Microservices, by watching our videos on Microservices & VMs: <a href="https://www.youtube.com/watch?v=3kgnY16Okg8">https://www.youtube.com/watch?v=3kgnY16Okg8</a>, <a href="https://www.youtube.com/watch?v=RL8Bwh0Xics&t">https://www.youtube.com/watch?v=RL8Bwh0Xics&t</a>

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