THE ADVANTAGE OF USING DOCKER

CONTAINERISED DEV PLATFORM

Current software platforms are constrained by having multiple infrastructure and technology stacks to maintain. This leads to fragile and complex deployment processes, with many interdependencies, which are hard to replicate, test and support.

The technology leaders at IMQS Software are continuously looking at innovative ways to accelerate digital transformation, with the ultimate goal of improving the quality of the software they deliver to their clients. There are an unprecedented number of new technology solutions that promise to bring real change to business, one of which is containerised software development.

Containers, otherwise known as operating-system-level virtualisation, are a lightweight approach to virtualisation that only provides the bare minimum that an application requires to run and function as intended. In a way, they can be considered as super minimalist virtual machines. Containerising an application enables it to run reliably in different environments by abstracting away the operating system and the physical infrastructure. Containerised applications share the kernel of the host operating system with other containers and the shared part of the Operating System is read-only.

Docker is the company driving the container movement and the preferred containerised platform at IMQS Software. The technology has seen adoption in some key enterprises and recognition from large software vendors, including Microsoft and Google.

Docker containers that run on a single machine share that machine's operating system kernel. The container starts instantly and uses less computing power as well as RAM.

KEY BENEFITS

- Robust, lightweight and easy to maintain.

- Operating System Agnostic.

- Secure (completely segregated and isolated).

- Ensures better quality software.

- Enhance Deployment and QA processes.

Docker images are constructed from filesystem layers and share common files. This minimises disk usage, and image downloads are much faster. These containers are based on open standards and run on all major Linux distributions, Microsoft Windows, and on any infrastructure including VMs, bare-metal and in the cloud.

The Software Engineering division at IMQS Software is actively working to incorporate this exciting technology to benefit its clients in the near future.

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