

Enterprise Container Management Platforms

Driving Success in a Digital World



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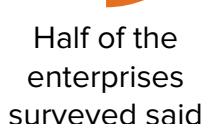


ABOUT THIS INFOGRAPHIC

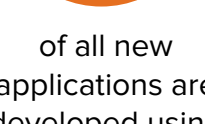
Despite efficiency, speed, and portability benefits, containerisation presents some challenges. Learn how enterprise container management platforms can improve your IT operations and developer experience.

Embracing containers to drive digital transformation

Organisations have embraced the use of containers to support their digital transformation



Half of the enterprises surveyed said that 50% or more of their applications are containerised.¹



of all new applications are developed using containers.²

IDC estimated over 2.5 billion container instances in 2022 across enterprises and digital providers worldwide. This figure is expected to more than double to 6.5 billion in three years (2025).³



Key drivers of container adoption

Top reasons for AP organisations running applications in containers:⁴



EFFICIENCY

Containers are less compute- and storage resource-intensive, compared with virtual machines **(20.7%)**



SPEED

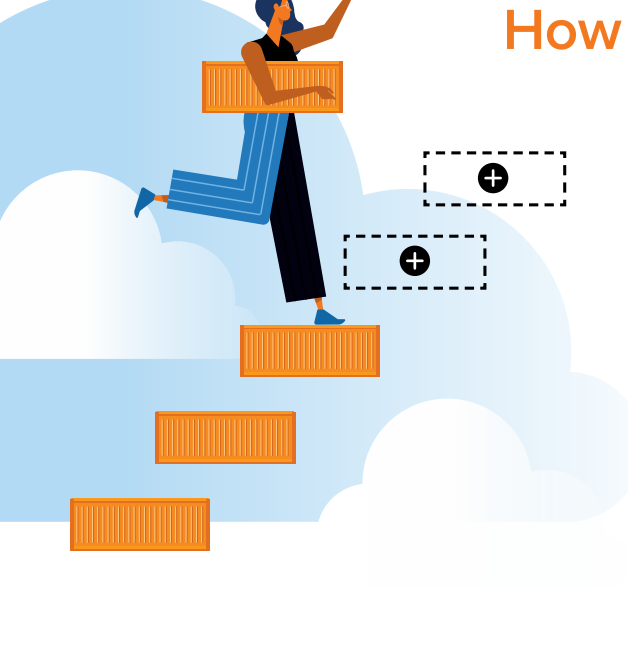
Containers enable faster time from development to deployment in production **(17.8%)**



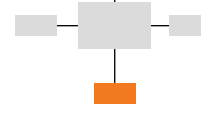
PORTABILITY

Containers are easier to deploy consistently across private and public clouds as well as traditional IT environments **(16.6%)**

How are containers being deployed?⁵



Refactor existing applications **(56%)**



Distributed application and microservices **(55%)**



Container-native modern applications **(45%)**

Challenges of containerisation⁶

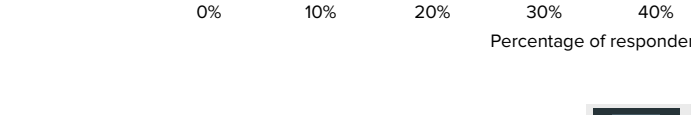
What challenges does your IT environment face as a result of containerisation?

Security, ease of use, data integrity/reliability, data management, hybrid cloud support, scalability are among the top challenges.

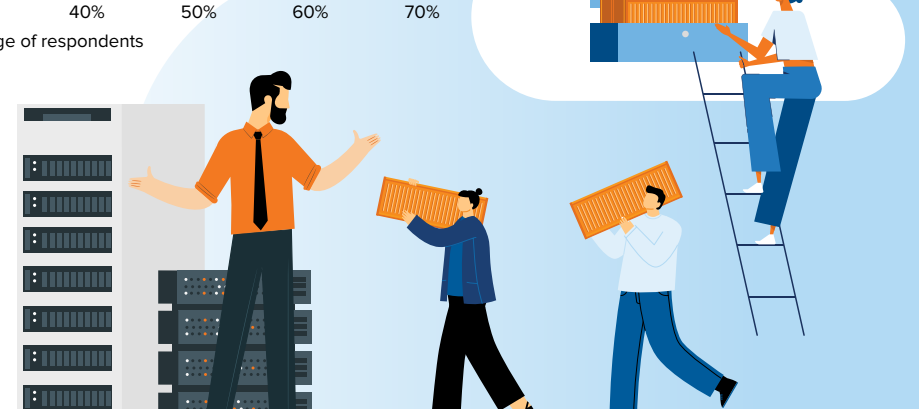


Repatriation to on-premise/traditional environment

Security, optimisation issues, performance issues, complexity, and expense are top reasons why some enterprises want to repatriate their containerised applications.



More than half of enterprises intend to repatriate 50% or more of their containerised applications in the next two years.



Top candidates for repatriation



Infrastructure apps



Data management apps



Business management apps

The case for enterprise container management platforms

All the challenges present a case for a single enterprisewide management platform to streamline IT operations, enhance developer experience, as well as strengthen SecOps.

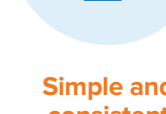
Drivers for adoption of container management platforms



Application and data mobility — support application movement across environments: on-premise, private and public cloud.



Improved connectivity between apps — current applications are highly interdependent, and a container management platform improves connectivity among applications and for data sharing.



Simple and consistent experience across multiple environments — automated deployment, scaling, monitoring and management of containers across on-premise servers, private and public clouds.



Security — image scanning, vulnerability management, and access control to container environment.

CONTAINER MANAGEMENT SOLUTIONS

There are a number of solutions in the market, with the top ones being **Red Hat OpenShift**, **VMware Tanzu**, **Amazon Web Services**, and **Google Anthos**. **Red Hat OpenShift** tops adoption and revenue of **Kubernetes** software.



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IDC Essential Guidance

1 PLAN
— develop clear requirements and plans for containers in the organisation, including the environment of deployments, security, and scalability.

2 EVALUATE & PRIORITISE
— there are many options for platforms in the market, such as Kubernetes, Docker, Red Hat OpenShift. Map solutions with your requirements and prioritise security, ease of use, portability, and scalability.

3 THIRD-PARTY PARTNER SUPPORT
— skills and challenges continue to be major challenges. Look for external partners that can provide guidance and expertise within your industry.

Sources

- ¹ IDC's Drivers, Challenges, and Risks for Container Adoption, March 2022
- ² IDC's Worldwide Workload Survey, 1H2022
- ³ IDC's Worldwide Container Instances Installed Base, 2022
- ⁴ IDC's AP Enterprise Infrastructure Survey, November 2020
- ⁵ IDC's AP Enterprise Infrastructure Survey, November 2020
- ⁶ IDC's Drivers, Challenges, and Risks for Container Adoption, March 2022