

Containerization Services

The success of your organization's business outcomes depends on how fast you as an IT organization can pivot and deliver new features and innovations to your customer base to stay relevant in your marketplace; cloud-based business models are enabling IT organizations to do the same, and driving the need for cloud modernization of existing applications.

One of the best methods to drive cloud modernization, that provides a balance between the risk and rewards, is replatforming. This is an effective way to quickly start reaping the benefits of portability, faster go-to-market, lower cost of ownership, and a pathway to microservices.

What Are Containers?

Organizations are now deploying their applications across a wider variety of machines and infrastructure than ever before. Unfortunately, much enterprise IT is still wedded to legacy hardware and software that carry serious technical debt and operational costs.

Containers are a virtualization technology that bundles an application's source code together with its libraries, dependencies, and settings, creating an abstraction independent of the underlying environment. This enables the containerized application to run predictably and reliably, no matter where you're executing it.



The Need for Containerization

If you're looking to modernize your legacy IT for the cloud, you have several options, including:

- Rehosting applications, also known as "lift and shift," by migrating them to the cloud as-is.
- Replatforming applications by making some modifications to fit the cloud infrastructure.
- Refactoring applications by rewriting their codebase to be more suitable for the cloud.

Whereas rehosting offers some cost benefits to customers, it falls short of the advantages of cloud-native applications. Meanwhile, refactoring applications can be a long and expensive process, making many organizations reluctant to get started.

Replatforming is a middle ground between these two options: it provides the benefits of cloud-native applications but without the cost and risk of refactoring. Containerization offers a simple way to get your legacy IT into the cloud, without having to modernize the rest of your technology stack immediately. By adopting containerization, development teams can deploy software more quickly and efficiently, with high reliability and scalability as well.

Containerization Technology



Docker

An open-source technology for building, deploying and sharing containerized software applications.



Kubernetes

An open-source technology used for managing and orchestrating large numbers of containers on a cluster of machines.

Containerization Services with Datavail

- **Strategic consulting:** Datavail offers many different consulting services to fit our clients' needs with containerization—everything from roadmaps and strategic planning to design and performance tuning.
- **Automation and orchestration:** Datavail can help you automate your container deployment, management, and scaling, ensuring that users enjoy high levels of availability and reliability.
- **Application modernization:** As a skilled application development partner, Datavail can help refresh and modernize your legacy software. Our services include migrating applications to the cloud, rearchitecting and refactoring existing applications, and shifting applications from a monolithic to a microservices-based architecture.