

**TOP
5
CONSIDERATIONS
for CIOs**

How a CIO should deploy containerisation

Business Objectives Alignment

Containerise to modernise

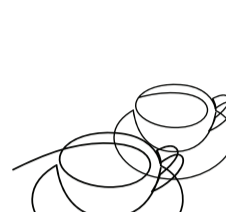
Boost agility, scale effortlessly and launch quicker

Think inside the container

Streamline your apps, speed up delivery and scale cautiously

Containerisation can support goals such as improving agility, scalability, and efficiency, as well as enabling quicker time-to-market for applications and services.

Bottom line: A 2020 Gartner report highlighted that by 2025, more than 75% of organisations will be running containerised applications in production, but 50% will struggle with security issues due to immature container security practices. In the famous words of Bruce Schneier “Security is not a product, but a process”.



Infrastructure and Resource Requirements

Is your infrastructure

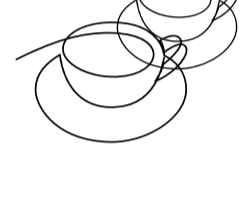
container-ready or is it time for an upgrade adventure?

Before you containerise,

scrutinise: can your current setup handle the load?

Determine if existing infrastructure can support containerised workloads or if upgrades or investments are needed to ensure adequate performance, scalability, and resilience.

Bottom line: A 2020 CNCF survey of organisations found that only 41% felt their infrastructure was ready for containerised workloads, with the majority citing significant challenges in performance, scalability, and resilience.



Skills and Training

Don't let your containers drift

Train your team in Kubernetes and Docker for smooth sailing

However, ramp up reality:

container mastery is not quick—start early or partner

Determine if the team has expertise in container orchestration platforms such as Kubernetes, Docker, etc. Invest in training and upskilling initiatives to build internal capabilities and ensure successful adoption.

Bottom line: The No.1 challenge in training people to implement and support containerisation is the steep learning curve associated with mastering container orchestration platforms like Kubernetes. It requires deep understanding of complex concepts such as cluster management, service discovery, networking, and security, which can be daunting for teams with no experience.



After 30+ years of experience...

“ While containerisation can be compared to standardised, self-contained shipping containers, each securely housing different goods, that can be efficiently loaded, moved and unloaded across various transport modes without repackaging, it also demands rigorous attention to security, compatibility, and skilled orchestration to fully realise its benefits in today's IT landscape. ”

Continuous Delivery and Automation

Secure your stack:

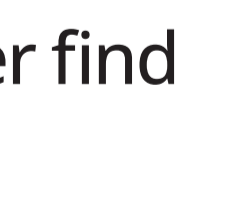
lock down container images, segment networks, and control access for regulatory peace-of-mind

Compliance in containers:

tighten security, manage access, and ensure regulatory alignment with every deployment

Product-Ops emphasises continuous delivery practices and automation to accelerate time-to-market and improve deployment reliability. It leverages CI/CD pipelines, infrastructure as code, and automation tools to streamline the release process and reduce manual effort and errors.

Bottom line: A confluence of tools and process allow you to work at scale. If you are working in a siloed or serial manner, then either find a partner with these capabilities or realise that Product-Ops may not be for you.



Integration with Existing Systems

Bridge the gap:

seamlessly unite legacy systems and modern containers with smart migration strategies

Old meets new:

Ensure flawless integration and coexistence between your legacy apps and containerised future

Evaluate compatibility with legacy applications, databases, and middleware, as well as integration with existing DevOps tools, automation frameworks, and monitoring solutions. Develop migration strategies and integration plans for seamless coexistence and interoperability between containerised and non-containerised environments.

Bottom line: A 2021 survey of organisations by Flexera found 59% citing legacy application compatibility as a major barrier to adopting containerisation, often needing significant refactoring or redevelopment efforts.



Like to delve into, dissect or draw on my experience over a coffee — let's set up a time...

