

# Containers Readiness Workshop

An Interactive Introduction to Containers Technology & Benefits

**EDUCATE:** rapid foundational knowledge creates springboard for deeper understanding for technology adoption leaders

**PREPARE:** interactive workshop drives participants to consider benefits of containers in their role and how to prepare for it

**ENABLE:** level-setting knowledge across groups and departments facilitates efficient strategy & planning for containers adoption



## Start Your Path to Containers

Software containers offer a new way of packaging and deploying applications that provide a diverse set of business benefits, especially when containers are fully implemented and integrated into an organization's development workflows and operating models. Adopting software containers, as with any transformative technology, can be a daunting challenge for many organizations. As a newer technology, almost all aspects of containers are rapidly evolving and expertise is limited. This creates a level of uncertainty for many businesses that often slows adoption of new technology despite its potential business benefits. While early adoption may be inherent to younger companies, the lack of knowledge and experience presents risk to more well-established enterprises.

## The Journey to Containers Begins with Knowledge Building

Whether starting with a limited pilot deployment or embarking on a more comprehensive enterprise-level strategy, the planning and deployment of software containers technology will likely impact multiple roles, groups, and departments. Case in point: the introduction of containers technology needs to be sponsored and financed by the business, will be heavily integrated into the development teams, and likely managed by the production operations group. A key to successfully introducing a transformative technology lies in all the affected parties (sponsors, users, operators, etc.) having a common, basic level of understanding.

A workshop, delivered on-site in an exclusive setting, is a very effective way to build and align knowledge around a new technology. Hosting a workshop in your environment not only facilitates attendance (by eliminating logistical overhead) but allows the session to be exclusive to your participants. This not only fosters open dialogue but also allows the session to be focused where general concepts can be applied in terms that are specific to your environment.

## A Holistic Approach to Learning About Containers

The **Containers Enablement Workshop** provides a comprehensive technical overview of containers technology as well as the elements that make up a typical platform in the enterprise including its infrastructure, orchestration, management, and security. The workshop also includes in depth discussion on the principles of building the containers themselves as well as practical demonstrations to enforce concepts and further connect them to how they may apply in your environment. The workshop starts with general containers concepts before focusing specifically on Docker containers and Kubernetes orchestration, the leading implementations of those functions.

### Introduction to Containers

The workshop starts with the fundamentals of containers as a technology including definitions, concepts, and comparisons enabling the participants to develop context around containers. This is followed by key technical details and the business benefits that are driving an increasing rate of adoption with market data to illustrate that point. Building Containers & the Development Workflow Containers are most effective when applications are properly written to use them and is an important topic covered in the workshop. It covers the makeup of the image file and how to build them including best practices, or the 'do's and don'ts' of creating images. The topic is concluded with discussion around how the image building process is commonly incorporated into a development workflow and a demonstration on building and running Docker containers.

### Orchestration & Kubernetes Deep Dive

The workshop provides an overview of the different orchestration tools for containers and describes the differences between the most established players before diving into Kubernetes, the most rapidly growing technology. It covers key terms, definitions, concepts, architecture, components, etc. before demonstrating different features of Kubernetes such as the user interface and creating pods.

### Infrastructure: Storage & Networking with Containers

Software runs on infrastructure and containers are no different. A section of the workshop is dedicated to discussing the unique characteristics and way in which Docker containers and Kubernetes orchestration use storage and networking components including filesystems and communication options. The topic is concluded with a demonstration of attaching a storage volume and using the APIs to expose services.

### Monitoring and Dashboards

No system can be considered 'production ready' without proper management tools and processes. The workshop dives into the monitoring components of Kubernetes as well as other products and technologies that can be added on to provide even greater insight and control of the containers environment. The section concludes with a demonstration of monitoring and dashboards for a glimpse of operations for containers.

### Security: Securing Containers

The workshop wraps up with a look at securing containers in a typical development workflow model where images are validated prior to deployment and then during their running state. The workshop dives into the different tools and technologies available for securing containers and best practices for the environment.

## How the Workshop “Works”

Are you ready to get your organization aligned on containers, its platform ecosystem, and the business benefits? The standard workshop begins with discovery and preparation to provide the most valuable experience possible.

## A Workshop Tailored to the Customer

We seek to understand in advance what experience the organization already has with containers, if any, and any preferences around tools and technologies to touch on. The standard offering dives deep into Docker containers and Kubernetes for orchestration but can be tailored to your environment and your experience with containers to date. With the right workshop prepared, we move onto scheduling and guidance around preparing for our workshop delivery.

## Our Expertise at Your Office

The workshop is led by one of our principal architects with enterprise experience designing, implementing, and helping our customers adopt containers. This includes both the tooling as well as the development practices for integrating containers into an organization’s development models and the methods for containerizing applications. The interactive workshop is supported by a presentation and demonstrations throughout. The typical workshop lasts an entire day, with breaks throughout, at a pace that is specific to the audience.

## Take the First Step or the Next Step

Whether your organization is thinking about containers or has started using the technology but looking to build momentum to expand its adoption, the Containers Enablement Workshop will help get your organization moving in the right direction.

## Next Steps

To learn more about how InterVision can help you successfully deploy and adopt containers in your environment, visit <http://www.intervision.com> or contact your InterVision sales representative.

InterVision helps customers optimize IT infrastructure, better manage risk, & gain a competitive advantage with IT integration and broad capabilities.