Federal Government | Solution Brief

Docker Datacenter

Docker Datacenter delivers a unified framework for developers and IT ops teams to build, ship and run applications anywhere. A solution for both monolith and microservices applications built on Windows and Linux operating systems running on-premises or in the cloud, Docker Datacenter simultaneously standardizes the application environment while maintaining flexibility for the organization. Both civilian and defense agencies have joined the container movement to realize these benefits:

- Operational efficiency
- Accelerate time to deliver new service
- Cost effective consumption of infrastructure – on premises and in the cloud

With Docker Datacenter agencies can respond faster with applications that support diverse and complex agency missions:

- Providing citizens with new applications to connect to critical services
- Providing war fighters around the world access to resources required to protect and defend
- Providing all agencies with a simple way to develop, enhance and move applications into production preserving precious budget dollars

THE CHALLENGE TODAY

Every IT team is challenged by mission critical applications running on fragile aging infrastructure. The support and maintenance of these applications is costly and presents unnecessary risk. Historically, the demand for new applications and the 'on demand' expectations of today's constituents typically exceeds the capabilities of both development and operation controls. Finally, almost all organizations are burdened with the cost of maintaining aging infrastructure reducing available dollars for adopting modern technology. Government agencies, like all businesses, are seeking ways to lower cost and create bandwidth to deliver more applications faster.

THE DOCKER DATACENTER SOLUTION

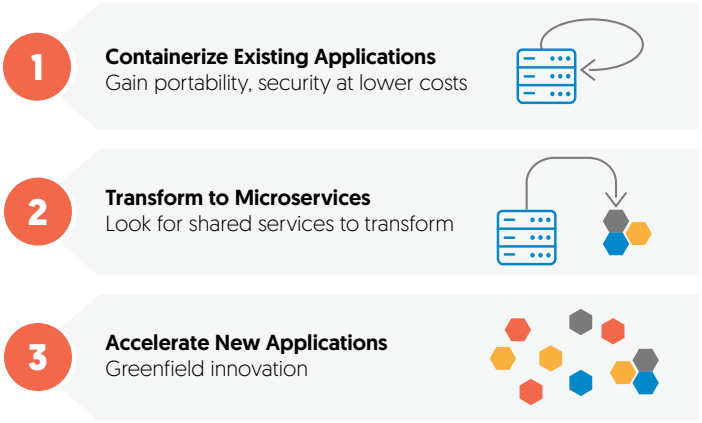
Docker Datacenter gives agencies the freedom to innovate without lock in. Docker containers run any application or service across the public and private cloud. Package applications and dependencies together into a Docker container, connect them together to create secure, highly available applications. Docker Datacenter provides integrated management and security features for an end to end development to production workflow for applications. Budget sensitive federal, state and local governments and universities are choosing Docker more often for these reasons:

Agility: Docker enables speed. Ship more software faster with the flexibility to use any stack or service in isolated containers.

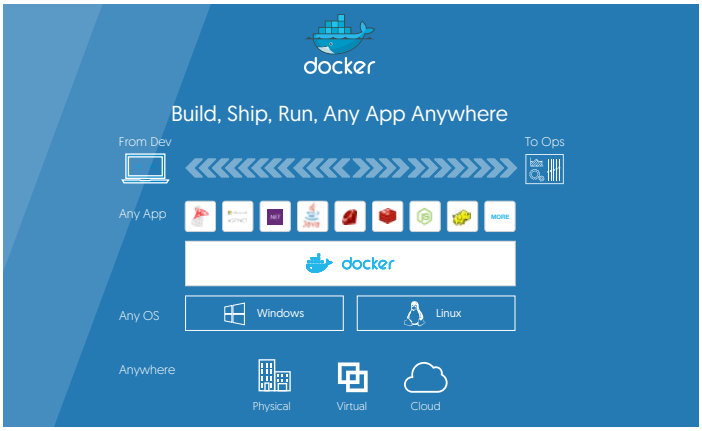
Portability: Seamless development to production workflow. Applications developed with Docker feature full stack portability.

Control: Docker enables end to end management at scale. With Docker, security is built in from the cluster to the application, adhering to policies at optimal costs. And, Docker integrates with existing IT systems ensuring governance and compliance with standards like FedRamp and FISMA.

One platform and one journey for all applications



Docker Datacenter provides a single platform and journey to optimize delivery of any application



The complexities of microservices and distributed applications are simplified and enabled with Docker.

"Docker containers wrap a piece of software in a complete filesystem that contains everything needed to run: code, runtime, system tools, system libraries – anything that can be installed on a server. This guarantees that the software will always run the same, regardless of its environment. Containers running on a single machine share the same operating system kernel; they start instantly and use less RAM. Images are constructed from layered filesystems and share common files, making disk usage and image downloads much more efficient."

BUILD, SHIP AND RUN ANY APPLICATION ANYWHERE

Civilian and defense agencies, big and small government and higher education enjoy frictionless portability across teams, environments and infrastructure. Thousands of companies already use Docker to modernize traditional applications and accelerate new application development. Docker enables new levels of efficiency and security for critical applications. Docker is:

Lightweight
Containers running on a single machine share the same operating system kernel; they start instantly and use less RAM. Images are constructed from layered filesystems and share common files, making disk usage and image downloads much more efficient.

Open
Docker containers are based on open standards, enabling containers to run on all major Linux distributions and on Microsoft Windows – and on top of any infrastructure.

Secure By Default
Containers isolate applications from one another and the underlying infrastructure, while providing an added layer of protection for the application.

ABOUT DOCKER

Docker is the leading software container platform. Developers use Docker to eliminate "works on my machine" problems when collaborating on code with co-workers. Operators use Docker to run and manage apps side-by-side in isolated containers to get better compute density. Organizations use Docker to build agile software delivery pipelines to ship new features faster, more securely and with confidence.
www.docker.com/government

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