Containers
A new way to build

Agile, lightweight building blocks to build, ship, and run any application, across any infrastructure

Docker + Microsoft: a bridge to DevOps

Take any app from development to production—with little or no code change—thanks to Docker integration across Microsoft developer tools, operating systems, and cloud

Windows Server 2016
Hyper-V
Visual Studio
Azure

Build | Ship | Run
any application, anywhere, from DevOps to datacenter to cloud

Secure your container

One platform, one journey for all applications

Agility
Fast and agile
Supports microservices architecture
Visual Studio Code, Docker for Windows, Docker for Mac
Rapidly develop apps in Azure with templates from Docker Datacenter
65% reduction in developer onboarding time


Portability
Modular and portable
Docker support for an open, portable bridge to Azure
Ship across public, private, and hybrid cloud environments
Lift and shift containers to new hosts at different sites without modifications to the service
41% move workloads across public/private clouds
Eliminates “works on my machine”

Control
Flexible and secure
Enterprise support options for Windows Server 2016 and Hyper-V containers
Docker for Azure provides native, easy-to-deploy environment for portable apps leveraging Azure IaaS Services
Higher resource utilization with Docker-supported container management

10x cost reduction in maintaining existing applications

Spin up fast

Compare the startup performance of NodeJS with...

Windows Server Containers
Name Server
- Under 600 ms
- 1.75 seconds
- 3 seconds

Windows Server Container
Hyper-V
Hyper-V Isolation
Virtual Machine
Name Server
- First container: 120 MB
- Additional: 75 MB
- First container: 340 MB
- Additional: 150 MB
- First container: 555 MB
- Additional: 280 MB

Orchestrate and monitor from one location

Commercial solutions
Plata, manage, and network containerized apps
Docker Datacenter
DC/OS

Open-source tools
Run Windows and Linux containers side by side
Elastic cluster scale for Linux and Windows containers
Built on familiar open-source tools
(Docker Swarm, DC/OS, or Kubernetes)

Pick a project

Modernize .NET, C++, C, CP, and Java apps
Build cloud-native apps and microservices
Move from Dev & IT to DevOps

Let’s build
microsoft.com/containers
aka.ms/modernizeyourapps
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