Docker on Windows

THE BEGINNER’S GUIDE

@EltonStoneman | elton@docker.com | #gids18
Today

DOCKER ON WINDOWS

• Why Docker?
• Windows Apps in Docker
• Modernizing .NET Apps with Docker
- w3wp.exe
- console.exe
- sqlservr.exe
> demo
Why Docker?
Efficiency. 5X over VMs

8 VMs

40 containers
Efficiency. 5X over VMs

1 Windows licence → 40 containers
Portability. Consistent deployment
Security. Provenance & trust

Content Trust

Security Scanning
Choice. Multi-OS, multi-orchestrator, any cloud
Docker on Windows
**Dockerfile**: deployment script

**Image**: packaged application

**Registry**: image store

**Container**: running application
build
ship
run
FROM microsoft/aspnet:windowsservercore

COPY UpgradeSample-1.0.0.0.msi /

RUN msiexec /i c:\UpgradeSample-1.0.0.0.msi RELEASENAME=2017.02 /qn
FROM microsoft/windowssservercore
SHELL ["powershell", "-Command"]

RUN Add-WindowsFeature Web-server, `  
    NET-Framework-45-ASPNET, Web-Asp-Net45; ` 
    Remove-Website -Name 'Default Web Site'

COPY ProductLaunchWeb /product-launch-web
RUN New-Website -Name 'product-launch' ` 
    -PhysicalPath 'C:\product-launch-web' -Port 80

EXPOSE 80

COPY bootstrap.ps1 /
ENTRYPOINT ./bootstrap.ps1
> docker image push

hub.docker.com
`docker container run w3wp.exe`
> docker container run
Windows ❤️ Linux
PS> docker ...
Modernizing .NET Apps
> demo
TAKEAWAYS

- Production-ready now!
- Portability, security & efficiency
- Sunset & modernizing traditional apps
NEXT STEPS

• Demos | is.gd/vKYs4T

• Workshop | dockr.ly/windows-workshop

• MTA for .NET devs | dockr.ly/mta-dev

• Pluralsight | Modernizing .NET Apps w/ Docker
THANK YOU :)

@EltonStoneman | elton@docker.com
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