Manage Containers and Container Images



Greg ShieldsAUTHOR EVANGELIST

@concentratdgreg www.pluralsight.com



What This Module Covers



Pull and Run a Server Core Container Image

Run an Interactive Container

Run Detached Containers

Manage Containers in Windows Admin Center

Build a Container Image Interactively

Stop, Start, and Remove Containers



What This Module Covers²



Configure Container Naming at Execution

Incorporate CMD and ENTRYPOINT Instructions into Dockerfiles

Configure Containers at Runtime using CMD and ENTRYPOINT Instructions

Incorporate HEALTHCHECK Instructions into Dockerfiles

Push Container Images to Docker Hub Repository





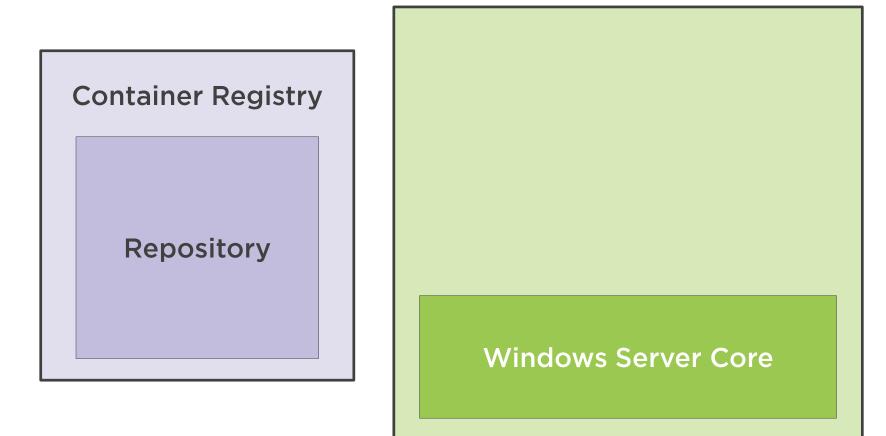
Container Registry

Repository

ASP.NET Installation IIS Installation Windows Server Core

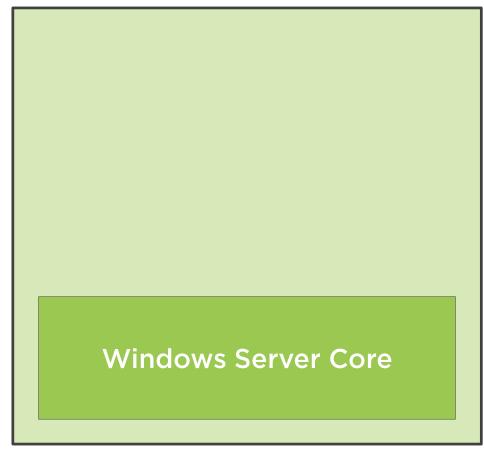
Container





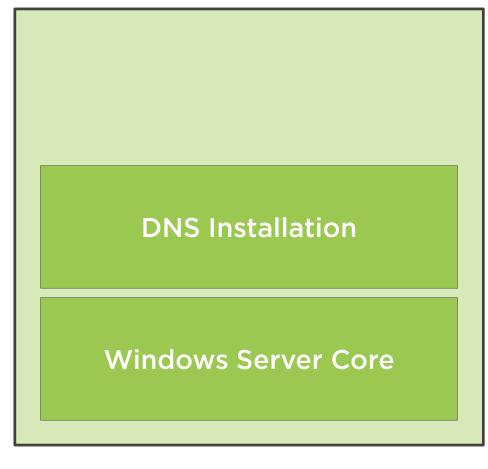






Container











FROM

COPY

RUN



FROM mcr.microsoft.com/windows/servercore:ltsc2019

COPY

RUN



```
FROM mcr.microsoft.com/windows/servercore:ltsc2019
COPY scripts/installdns.ps1 c:\\installdns.ps1
RUN
```



FROM mcr.microsoft.com/windows/servercore:ltsc2019

COPY scripts/installdns.ps1 c:\\installdns.ps1

RUN powershell.exe -ExecutionPolicy Bypass c:\\installdns.ps1



```
# escape=`
FROM mcr.microsoft.com/windows/servercore:ltsc2019
COPY scripts/installdns.ps1 c:\\installdns.ps1
RUN powershell.exe -ExecutionPolicy Bypass c:\\installdns.ps1
```



```
# escape=`
FROM mcr.microsoft.com/windows/servercore:ltsc2019
COPY scripts/installdns.ps1 c:\installdns.ps1
RUN powershell.exe -ExecutionPolicy Bypass c:\installdns.ps1
```



```
# escape=`
FROM mcr.microsoft.com/windows/servercore:ltsc2019
COPY scripts/installdns.ps1 c:\installdns.ps1
RUN powershell.exe -ExecutionPolicy Bypass c:\installdns.ps1
```



```
# escape=`
FROM mcr.microsoft.com/windows/servercore:ltsc2019
COPY scripts/installdns.ps1 c:\installdns.ps1
RUN powershell.exe -ExecutionPolicy Bypass c:\installdns.ps1
CMD
```



```
# escape=`
FROM mcr.microsoft.com/windows/servercore:ltsc2019
COPY scripts/installdns.ps1 c:\installdns.ps1
RUN powershell.exe -ExecutionPolicy Bypass c:\installdns.ps1
CMD "ping -t localhost > NULL"
```



```
# escape=`
FROM mcr.microsoft.com/windows/servercore:ltsc2019
COPY scripts/installdns.ps1 c:\installdns.ps1
RUN powershell.exe -ExecutionPolicy Bypass c:\installdns.ps1
ENTRYPOINT "ping -t localhost > NULL"
```



What This Module Covered



Pull and Run a Server Core Container Image

Run an Interactive Container

Run Detached Containers

Manage Containers in Windows Admin Center

Build a Container Image Interactively

Stop, Start, and Remove Containers



What This Module Covered²



Configure Container Naming at Execution

Incorporate CMD and ENTRYPOINT Instructions into Dockerfiles

Configure Containers at Runtime using CMD and ENTRYPOINT Instructions

Incorporate HEALTHCHECK Instructions into Dockerfiles

Push Container Images to Docker Hub Repository

