



# Working with Containers and Docker in Windows 2016 TP5 Part 2

The new release comes with a lot of new cool things for Windows containers and Docker!

You could find Part 1 here: <http://linuxkurser.nu/working-containers-docker-windows-2016-tp5-part-1/>

Task 1: Get information about Docker Engine and tag images.

Get information about Docker Engine:

Step 1: Open PowerShell window.

Step 2: Type **docker info**, and press Enter.

```
Administrator: Windows PowerShell
Windows PowerShell
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PS C:\Users\azureuser> docker info
Containers: 0
  Running: 0
  Paused: 0
  Stopped: 0
Images: 1
Server Version: 1.12.0-dev
Storage Driver: windowsfilter
  Windows:
Logging Driver: json-file
Plugins:
  Volume: local
  Network: null nat
Kernel Version: 10.0.14300 (14300.1016.amd64fre.rs1_release_svc.160428-1819)
Operating System: Windows Server 2016 Datacenter Technical Preview 5
OSType: windows
Architecture: x86_64
CPUs: 1
Total Memory: 767.6 MiB
Name: easectp5
ID: 3DRZ:EE4H:LDXU:6N2N:HXOZ:5O2A:FZOL:HQGK:5IRA:MBNB:SUOU:CBU7
Docker Root Dir: C:\ProgramData\docker
Debug Mode (client): false
Debug Mode (server): false
Registry: https://index.docker.io/v1/
Insecure Registries:
  127.0.0.0/8
PS C:\Users\azureuser>
```

List images.

Step 3: Type **docker images**, and press Enter.

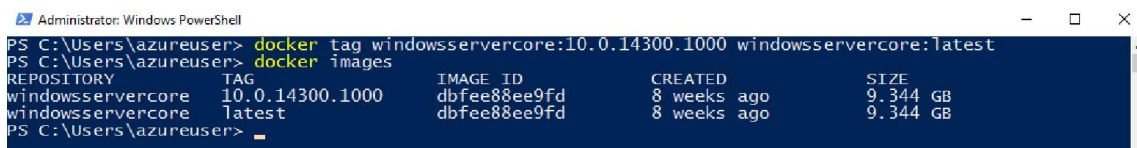
```
Administrator: Windows PowerShell
PS C:\Users\azureuser> docker images
REPOSITORY          TAG                IMAGE ID           CREATED
windowsservercore  10.0.14300.1000   dbfee88ee9fd     8 weeks ago
PS C:\Users\azureuser>
```

One image, named `windowsservercore` is available, but it does not have the "latest" tag.

Tag the image, with latest.

Step 4: Type `docker tag windowsservercore:10.0.14300.1000 windowsservercore:latest`, and press Enter.

Step 5: Type `docker images`, and press Enter to check.

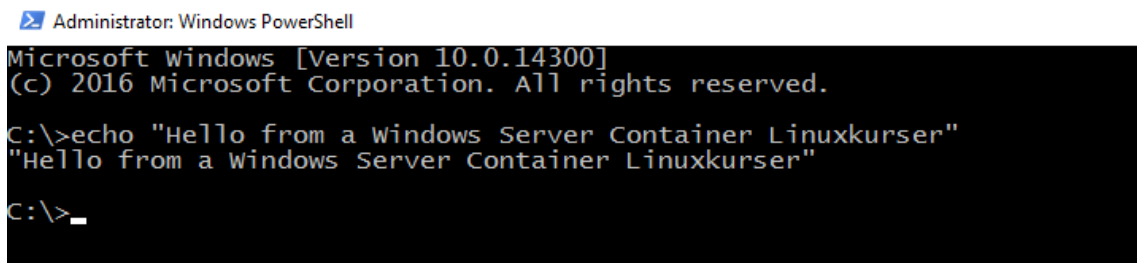


```
Administrator: Windows PowerShell
PS C:\Users\azureuser> docker tag windowsservercore:10.0.14300.1000 windowsservercore:latest
PS C:\Users\azureuser> docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
windowsservercore  10.0.14300.1000    dbfee88ee9fd       8 weeks ago        9.344 GB
windowsservercore  latest             dbfee88ee9fd       8 weeks ago        9.344 GB
PS C:\Users\azureuser>
```

Task 2: Run your first container.

Step 1: Type the following command: `docker run -it windowsservercore cmd`, and press Enter.

Command above will run new container in interactive mode and execute `cmd` inside the container.



```
Administrator: Windows PowerShell
Microsoft Windows [Version 10.0.14300]
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C:\>echo "Hello from a Windows Server Container Linuxkurser"
"Hello from a Windows Server Container Linuxkurser"

C:\>_
```

Step 2: Type `exit`, to leave the container.

Task 3: Work with Dockerfile.

Step 1: Create a new folder on your drive, name it Test.

Step 2: In the folder Test, create a new text document.

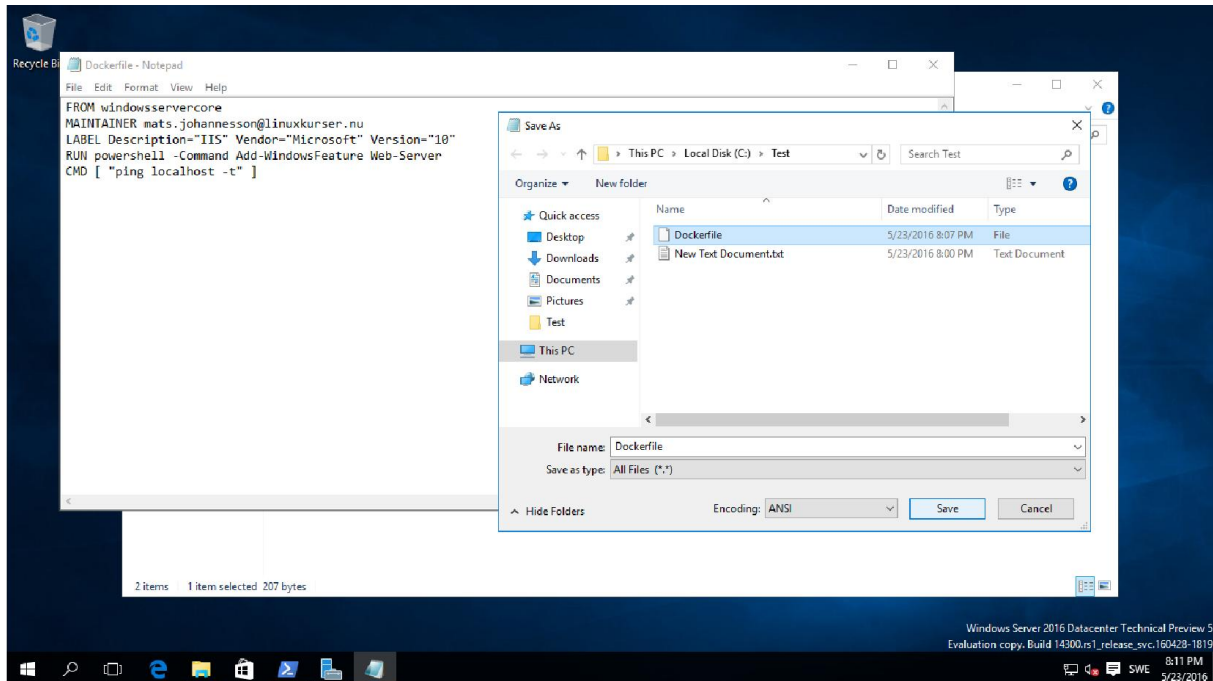
Step 3: In these new text document, put in following:

```

FROM windowsservercore
MAINTAINER mats.johannesson@linuxkurser.nu
LABEL Description="IIS" Vendor="Microsoft"
Version="10"
RUN powershell -Command Add-WindowsFeature Web-Server
CMD [ "ping localhost -t" ]

```

Step 4: Save the file as Dockerfile, no extensions!



Step 5: Open a PowerShell window in this directory, build the container image with following command: **docker build -t *webserveryour\_firstname* .**, and press Enter.

```

Administrator: Windows PowerShell
PS C:\test> docker build -t webservermats .
Sending build context to Docker daemon 2.56 kB
Step 1 : FROM windowsservercore
----> dbfee88ee9fd
Step 2 : MAINTAINER mats.johannesson@linuxkurser.nu
----> Using cache
----> d0ed123009e6
Step 3 : LABEL Description "IIS" Vendor "Microsoft" Version "10"
----> Running in d5c15d4408f0
----> 5cfd929bacc5
Removing intermediate container d5c15d4408f0
Step 4 : RUN powershell -Command Add-WindowsFeature Web-Server
----> Running in f7dcde6b49b7

Success Restart Needed Exit Code      Feature Result
-----
True      No          Success          {Common HTTP Features, Default Documen...

----> 78c0539c2cf9
Removing intermediate container f7dcde6b49b7
Step 5 : CMD ping localhost -t
----> Running in 987c908a7e8b
----> 0c3d3599e264
Removing intermediate container 987c908a7e8b
Successfully built 0c3d3599e264
PS C:\test>

```

Step 6: When the image have been build, you could show available images on your host, with the command **docker images**.

Administrator: Windows PowerShell

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```
PS C:\test> docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
webservermats       latest             0c3d3599e264      11 hours ago      9.484 GB
<none>              <none>            921ae58a5140      11 hours ago      9.344 GB
windowsservercore  10.0.14300.1000   dbfee88ee9fd      8 weeks ago       9.344 GB
windowsservercore  latest            dbfee88ee9fd      8 weeks ago       9.344 GB
PS C:\test>
```