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Creating container volumes in windows 201



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Creating container volumes in win 2016

In this blog, we will share you creating container volumes in windows 2016 using docker commands.

OVERVIEW

In addition, to store the data inside the container while building, we can also set it up the container to access their environment. For example, create a folder on container host and we can access the folder from inside t

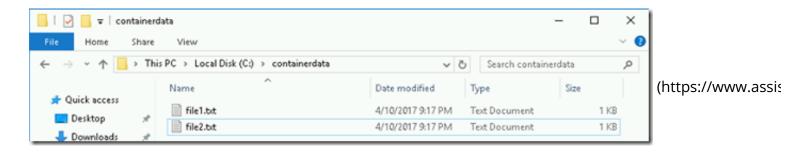
CREATING CONTAINER FOLDER

• Create a folder in C:\ drive named **containerdata** using below command.

mkdir containerdata

content/uploads/2017/04/image-109.png)

Create two new files named file1.txt and file2.txt



content/uploads/2017/04/image-110.png)

LAUNCHING NEW CONTAINER AND MAP THE FOLDER

• Create a new container along with mapping using below command.

SYNTAX: docker run -it -v <sourcefolderpath>:<destination folder path where source folder to be mo <container OS image< <pre>container OS image

EXAMPLE: docker run -it -v c:\containerdata:c:\mydata azcontainerr/web powershell

docker – Base command for docker command line interface.

-it - To start the docker container in interactive mode.

-v − to map the local folder (or) data volume to a folder inside the container.

c:\containerdata - It's the source folder from the container host

c:\mydata – Define the path where the source folder to be mounted.

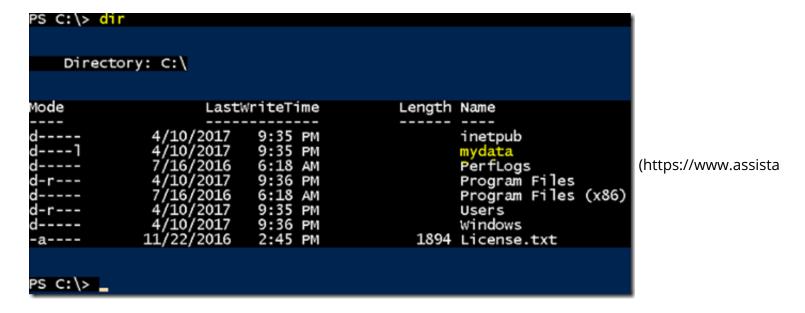
azcontainerr/web – Image to start the container

PowerShell – To kickstart the PowerShell process inside the container.



(https://www.assistanz.com/wp-content/uploads/2017/04/image-111.png)

• Once the container up and running, List the files and folders to verify **mydata** folder is available.



content/uploads/2017/04/image-112.png)

• If we list the files inside mydata, we can see our files file1.txt and file2.txt.

content/uploads/2017/04/image-113.png)

• Create a new file inside the **mydata** folder using below command.

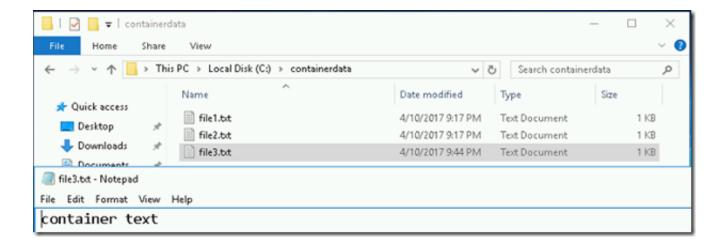
New-Item-ItemType file -Name file3.txt -Value 'container text'

(https://www.assistanz.com/wp-content/uploads/2017/04/image-114.png)

• List the directory and we can able to find the third file in the list.

content/uploads/2017/04/image-115.png)

We can able to see the file from the container host.



(https://www.assistanz.com/wp-content/uploads/2017/04/image-116.png)

• Quit from the container using below command.

exit

```
PS C:\mydata> exit
PS C:\> _ (https://www.assistanz.com/wp-content/uploads/2017/04/image-117.pn;
```

Now container is in stopped mode. We can verify it using docker ps -α command.

```
PS C:\> docker ps =a
CONTAINER ID IMAGE COMMAND CREATED STATUS POR
9d0765ff449f azcontainerr/web "powershell" 25 minutes ago Exited (0) 2 minutes ago
b1bfc568da68 microsoft/nanoserver "powershell" 4 days ago Exited (1067) 4 days ago
PS C:\> _
```

(https://www.assistanz.com/wp-content/uploads/2017/04/image-118.png)

REMOVING CONTAINER

Now delete the container using rm command.

docker rm 9d



There are no containers available now.

```
PS C:\> docker ps == A
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
PS C:\> _
```

(https://www.assistanz.com/wp-content/uploads/2017/04/image-120.png)

• You can see all three files available in the **c:\containerdata** folder from the container host

content/uploads/2017/04/image-121.png)

• The data are available after we delete the containers.

CREATING PERSISTENT DATA VOLUMES

• We can create persistent data volumes that can be shared access multiple containers. It's like virtual volume whice connected to different containers.

To create persistent data volume, use the below command.

SYNTAX: docker run -it -v <data volume name>:<Folder name where data volume to be mounted> <co name> <command to kickstart the process>

EXAMPLE: docker run -it -v mydata:c:\demo azcontainerr/web powershell

docker – Base command for docker command line interface.

- -it To start the docker container in interactive mode.
- **-v** − to map the local folder (or) data volume to a folder inside the container.

mydata - create a data volume

c:\demo - where data volume should be mounted inside the container

azcontainerr/web – Image to start the container

powershell – To kickstart the PowerShell process inside the container.

```
PS C:\> docker run -it -v mydata:c:\demo azcontainerr/web powershell_
```

(https://www.assistanz.com/wp-content/uploads/2017/04/image-122.png)

• Once the container is up and running, list the folders to verify **demo** folder is available.

(https://www.assistanz.com/wp-

content/uploads/2017/04/image-123.png)

• There is no files are available under demo folder.



Create a new file named test.txt using below command.

New-Item-Itemtype file -Name test.txt -Value 'hello assistanz'

content/uploads/2017/04/image-125.png)

• Now disconnect this container by pressing **CTRL+PQ** keys.

```
PS C:\demo>
PS C:\> _ (https://www.assistanz.com/wp-content/uploads/2017/04/image-126.png)
```

Make sure that container is in running state by executing docker ps command.

```
PS C:\> <mark>docker ps</mark>
CONTAINER ID IMAGE COMMAND CREATED STATUS
c70155c97202 azcontainerr/web "powershell" 11 minutes ago Up 11 minutes
PS C:\> _
```

(https://www.assistanz.com/wp-content/uploads/2017/04/image-127.png)

• Launch a new container with same volume mapping using below command.

docker run -it -v mydata:c:\demo azcontainerr/web powershell

```
PS C:\> docker run -it -v mydata:c:\demo azcontainerr/web powershell_
```

(https://www.assistanz.com/wp-content/uploads/2017/04/image-128.png)

• Once container up and running, list the folders to view **demo** folder.

```
PS C:\> dir
    Directory: C:\
Mode
                     LastWriteTime
                                             Length Name
               4/10/2017
                /10/2017
                                                      inetpub
                                                     PerfLogs
                                                                           (https://www.
               4/10/2017
                                                     Program Files
                                                     Program Files (x86)
                                                     Windows
              11/22/2016
                                                1894 License.txt
PS C:\>
```

content/uploads/2017/04/image-129.png)

• If we list inside the demo folder, we can see the text file which we created from the other container.

content/uploads/2017/04/image-130.png)

• Disconnect from this container by pressing **CTRL+PQ** keys.



ABOUT DATA VOLUMES

- Actually, we create, manage and delete data volumes using docker volume command.
- To list the available data volumes in the container host, use the below command.

docker volume is

```
PS C:\> docker volume ls
DRIVER VOLUME NAME
local mydata
PS C:\> _
```

Make sure that container is deleted prior to delete volumes. To delete multiple containers, use the below comma

docker rm -f \$(docker ps -q)

```
C:\> docker ps
ONTAINER ID
                                          powershell"
                    azcontainerr/web
                                                              24 minutes ago
                    azcontainerr/web
                                          powershell"
 0155c97202
                                                                 minutes ago
                                                                                      40 minut
       docker rm -f $(docker ps -q)
  3c609712f
 0155c97202
                    IMAGE
                                         COMMAND
                                                              CREATED
                                                                                   STATUS
```

(https://www.assistanz.com/wp-content/uploads/2017/04/image-133.png)

• To delete the docker volume, execute the below command.

SYNTAX: docker volume rm <volume name>

COMMAND: docker volume rm mydata



(https://www.assistanz.com/wp-content/uploads/201

134.png)

You can verify the data volumes using docker volume is command.



(https://www.assistanz.com/wp-content/uploads/20

135.png)

VIDEO