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Running Windows Container in Windows 2016

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<https://www.assistanz.com/windows-2016>



Running Windows Container in Windows 2016

In this blog, we will show you how to running windows container in windows 2016 using docker commands.

OVERVIEW

We are using the docker client command **docker.exe** to run the windows containers in windows 2016. There are many options available in docker command. you can use the help page to find different options about this command.

RUN WINDOWS CONTAINER IN AN INTERACTIVE MODE

- ♦ To run a container in an interactive mode, use the below command.

docker run -it microsoft/nanoserver cmd

In the above example,

docker – Command name

run – sub option of to run the container

-it – To run the container in interactive mode

microsoft/nanoserver – Image name for this container

cmd – To execute the cmd.exe process for interactive experience



([https://www.assistanz.com/wp-](https://www.assistanz.com/wp-content/uploads/2017/04/image-9.png)

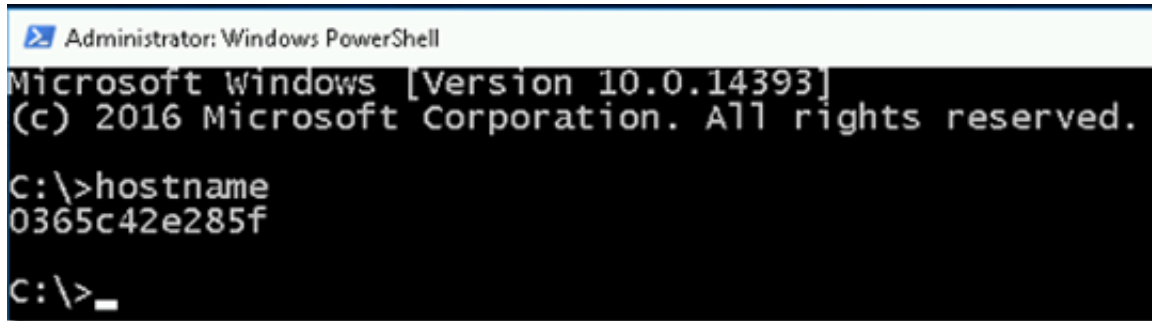
[content/uploads/2017/04/image-9.png](https://www.assistanz.com/wp-content/uploads/2017/04/image-9.png))

Note: By default, docker will use the latest images if you are not provide the tag nan image.

Also, we can provide tag along with the image name as shown below.

docker run -it microsoft/nanoserver:latest cmd

Once docker started successfully it shows the command prompt.



([https://www.assistanz.c](https://www.assistanz.com/wp-content/uploads/2017/04/image-10.png)

[content/uploads/2017/04/image-10.png](https://www.assistanz.com/wp-content/uploads/2017/04/image-10.png))

- ♦ To stop the container, type **exit** and press enter.

DISCONNECT THE CONTAINER

- ♦ To keep the container in the running mode, press **CTRL key+PQ**
- ♦ Once you press these keys it will disconnect from the container.

```
Administrator: Windows PowerShell
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\>hostname
0365c42e285f

C:\>
PS C:\> _
```

(<https://www.assistanz.com>)

content/uploads/2017/04/image-11.png)

- ♦ To list the docker process, type the below command.

docker ps

```
PS C:\> docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS
0365c42e285f       microsoft/nanoserver:latest "cmd"              22 minutes ago     Up 2
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-12.png>)

STOP THE CONTAINER

- ♦ To stop the container, type below command.

Syntax : docker stop <container ID> or <container name>

Example : docker stop 03

Note : We can use the first two character of container ID for short form.

```
PS C:\> docker stop 03
03
PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-13.png>)

- ♦ There are no running containers available now.

```
PS C:\> docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS
NAMES
PS C:\>
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-14.png>)

- ♦ To show all the containers including stopped, type the below command.

docker ps -a

```
PS C:\> docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS
0365c42e285f       microsoft/nanoserver:latest "cmd"              32 minutes ago     Exited (1067) 4 minutes
romantic_kirch
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-15.png>)

START THE CONTAINER

- ♦ To start the container, type the below command.

Syntax : docker start <container ID> or <container name>

Example : docker start 03

```
PS C:\> docker start 03
03
PS C:\>
```

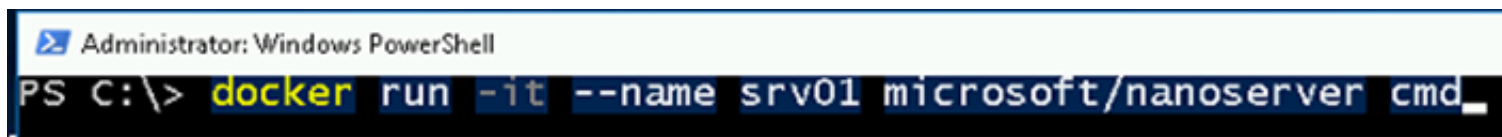
(<https://www.assistanz.com/wp-content/uploads/2017/04/image-16.png>)

```
PS C:\> docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS
0365c42e285f       microsoft/nanoserver:latest "cmd"              41 minutes ago     Up 5 minutes
romantic_kirch
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-17.png>)

SETTING NAME FOR CONTAINER

- ♦ By default, Microsoft will choose a random name for a container. To set a name while creating the container, type command.



```
Administrator: Windows PowerShell
PS C:\> docker run -it --name srv01 microsoft/nanoserver cmd_
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-18.png>)

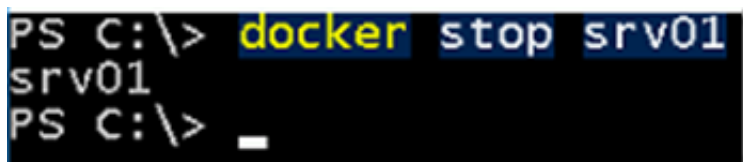
- ♦ Once the container created successfully, press **CTRL+PQ** to disconnect from the container. Then type **docker ps** the container(s).



```
PS C:\> docker ps
CONTAINER ID   IMAGE                COMMAND              CREATED        STATUS
1d02358a15f1   microsoft/nanoserver "cmd"               3 minutes ago  Up 3 mi
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-19.png>)

- ♦ So we can use the name **srv01** to stop, start and delete the containers.



```
PS C:\> docker stop srv01
srv01
PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-20.png>)

DELETE A CONTAINER

- ♦ To delete a container, type the below command.

Syntax : docker rm <container ID> or <container name>

Example : docker rm srv01



```
Administrator: Windows PowerShell
PS C:\> docker rm srv01
srv01
PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-21.png>)

- ♦ If you try to delete the running container using **rm** command it shows the below error.

```
PS C:\> docker rm 03
Error response from daemon: You cannot remove a running container 0365c42e285f613f5e66f92da03e8071ec70ba29bb9c2836a2094c44e. Stop the container before attempting removal or use -f
PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-22.png>)

- ♦ To delete the running container, type the below command.

Syntax : docker rm -f <container ID> or <container name>

Example : docker rm -f 03

```
Administrator: Windows PowerShell
PS C:\> docker rm -f 03
03
PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04>

RUNNING IN DETACH MODE WHILE CREATING THE CONTAINER

- ♦ To run in the detach mode while creating the container, type the below command.

Syntax : docker run -d <container image> <process command>

Example : docker run -d microsoft/nanoserver ping 127.0.0.1 -t

```
Administrator: Windows PowerShell
PS C:\> docker run -d microsoft/nanoserver ping 127.0.0.1 -t
68701621fad06f5152b624cdbe78f032767b5d67569d3d085150f1153de75b01
PS C:\> _
```

(<https://www.assista>

content/uploads/2017/04/image-24.png)

- ♦ When we list the docker process, we can able to see the container running in background.

```
Administrator: Windows PowerShell
PS C:\> docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS
68701621fad0        microsoft/nanoserver "ping 127.0.0.1 -t" About a minute ago   Up About a minute
laughing_mclean
```

(<https://www.as>

content/uploads/2017/04/image-25.png)

- ♦ To start another process inside a running container, type the below command.

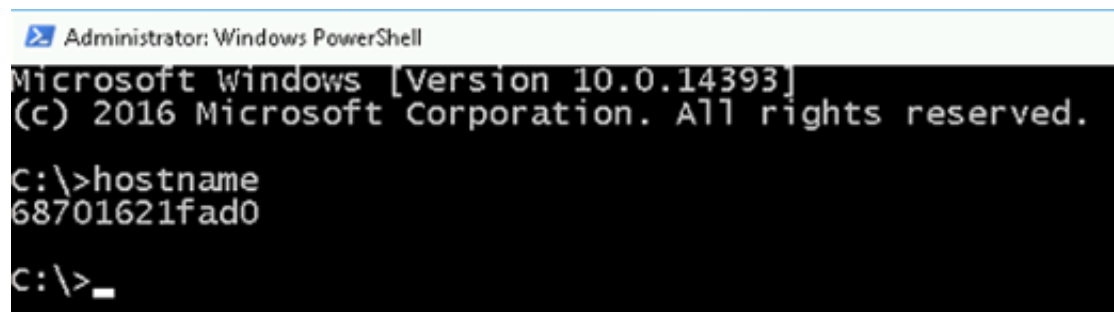
Syntax: `docker exec -it <container ID> or <container name> <process command>`

Example: `docker exec -it 68 cmd`



PS C:\> **docker** **exec** **-it** **68** **cmd** (https://www.assistanz.com/wp-content/uploads/2017/04/image-26.png)

- ♦ After few seconds, it shows the command prompt. Type **hostname** to verify the container.



Administrator: Windows PowerShell
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.
C:\>hostname
68701621fad0
C:\>_ (https://www.assistanz.com-content/uploads/2017/04/image-27.png)

- ♦ Type **exit** to exit from the container. Now execute the **docker ps** command to view the docker process list.



Administrator: Windows PowerShell
PS C:\> **docker** **ps**

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
68701621fad0	microsoft/nanoserver	"ping 127.0.0.1 -t"	12 minutes ago	Up 12 minutes	

PS C:\>_ (https://www.assistanz.com/wp-content/uploads/2017/04/image-28.png)

The command which we ran during detach mode is still running in the background.

COLLECTING INFORMATION ABOUT CONTAINER

- ♦ To view the information about the container, type the below command.

Syntax: docker inspect <container ID> or <container name>

Example : docker inspect 68



```
PS C:\> docker inspect 68
[
  {
    "Id": "68701621fad06f5152b624cdbe78f032767b5d67569d3d085150f1153de75b01",
    "Created": "2017-04-03T07:46:37.7473761Z",
    "Path": "ping",
    "Args": [
      "127.0.0.1",
      "-t"
    ],
    "State": {
      "Status": "running",
      "Running": true,
      "Paused": false,
      "Restarting": false,
      "OOMKilled": false,
      "Dead": false,
      "Pid": 1484,
      "ExitCode": 0,
      "Error": "",
      "StartedAt": "2017-04-03T07:46:45.6351987Z",
      "FinishedAt": "0001-01-01T00:00:00Z"
    },
    "Image": "sha256:18a0d32a4b98e8a3e1ab7eb33b2be75b4826cbf43754961db08101b52bce0840",
    "ResolvConfPath": "",
    "HostnamePath": "",
    "HostsPath": "",
    "LogPath": "C:\\ProgramData\\docker\\containers\\68701621fad06f5152b624cdbe78f032767b5d67569d3d085150f1153de75b01\\68701621fad06f5152b624cdbe78f032767b5d67569d3d085150f1153de75b01-json.log",
    "Name": "/laughing_mclean",
    "RestartCount": 0,
    "Driver": "windowsfilter",
  }
]
```

(<https://www.i>

content/uploads/2017/04/image-29.png)

It shows the information about the container in JSON format.

VIDEO