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Import and Export Docker images for windows



Import and Export Docker images from windows container

In this blog, we will show you how to import and export docker images from one server to another using docker

REQUIREMENTS

- ◆ We need two windows container host with docker service installed.

*In this demonstration, we are using two windows container host as **container1** with IP **192.168.232.81**.
container2 with IP **192.168.232.81**.*

EXPORT THE IMAGE

- ◆ Login into **container1** host and create a new folder named **images** under c:\ drive using below command

New-Item -ItemType directory -Path c:\ -name images

```
PS C:\> New-Item -ItemType directory -Path c:\ -name images

Directory: C:\

Mode                LastWriteTime         Length Name
----                -
d-----          4/24/2017  10:12 PM             images

PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-203.png>)

- ◆ Type **docker images** command to list the available images on the server.

```
PS C:\> docker images
REPOSITORY              TAG                IMAGE ID           CREATED
assistanz247/nanoserver-iis  latest            02fa91a462a0      7 days ago
azcontainerr/web         v1                90272c2e2ccd      2 weeks ago
azcontainerr/web         latest            b22d1e45ce8d      2 weeks ago
my-nano-image            latest            29ffc86d86c5      2 weeks ago
microsoft/windowsservercore latest            b4713e4d8bab      6 weeks ago
microsoft/nanoserver      10.0.14393.953    18a0d32a4b98      6 weeks ago
microsoft/nanoserver      latest            18a0d32a4b98      6 weeks ago
PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-204.png>)

- ◆ In the demo, we are exporting the **assistanz247/nanoserver-iis:latest** image. To export the image use the below

SYNTAX: docker save -o c:\images\nanoserver.tar assistanz247/nanoserver-iis

docker save – Sub command to save the docker images.

-o – To specify the out file path

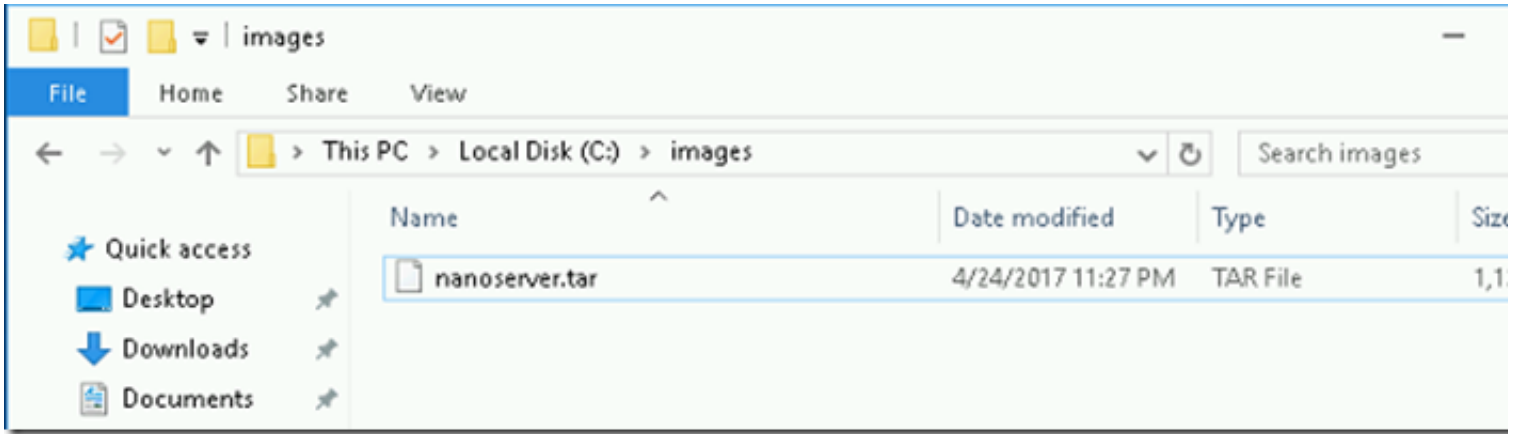
c:\images\nanoserver.tar – The path and the filename to save the image.

nanoserver-iis – Image Name

```
PS C:\> docker save -o c:\images\nanoserver.tar assistanz247/nanose
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-205.png>)

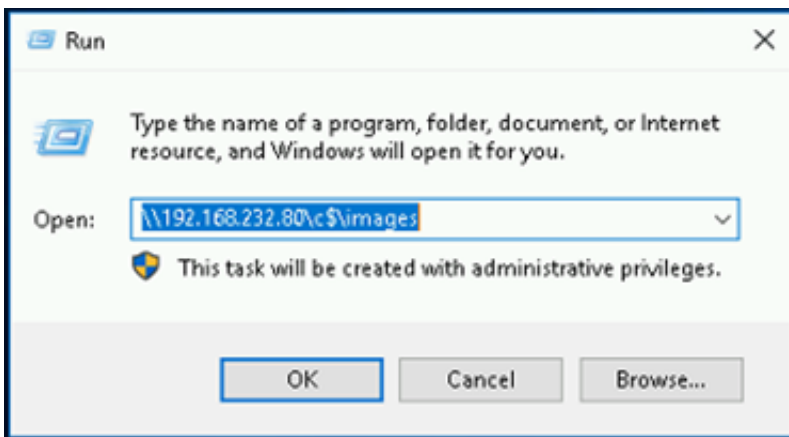
- ◆ Once it's complete. The **nanoserver.tar** file will be available on **c:\images** folder.



(<https://www.assistanz.com/wp-content/uploads/2017/04/image-206.png>)

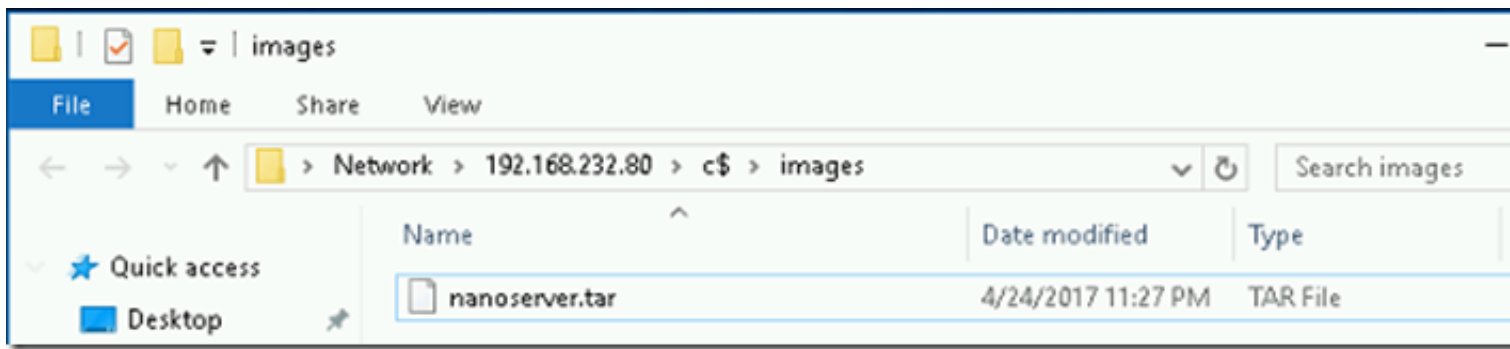
IMPORT DOCKER IMAGE

- ◆ Login into **Container2** server and access the **c:\images** folder from **container1** through the network share.



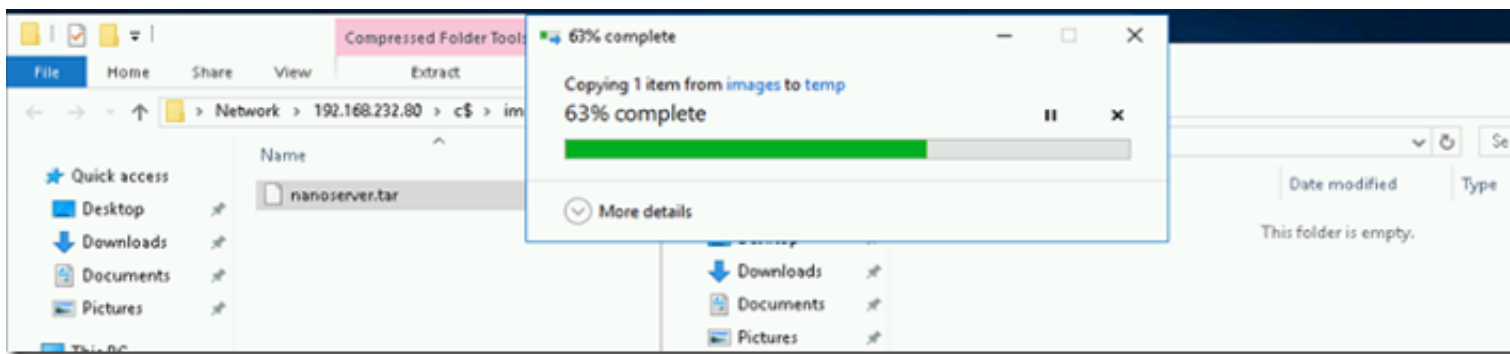
(<https://www.assistanz.com/wp-content/uploads/2017/04/image-207.png>)

207.png)



(<https://www.assistanz.com/wp-content/uploads/2017/04/image-208.png>)

- ◆ Copy the **nanoserver.rar** to local folder named **c:\temp**



(<https://www.assistanz.com/wp-content/uploads/2017/04/image-209.png>)



(<https://www.assistanz.com/wp-content/uploads/2017/04/image-210.png>)

- ◆ To import the image to docker, use the below command.

docker load -i c:\temp\nanoserver.tar

docker load – This is the sub-command for docker to import the image.

-i – To specify the TAR file path.

c:\temp\nanoserver.tar – The full path for TAR file.

```
PS C:\> docker load -i c:\temp\nanoserver.tar
6c357baed9f5: Loading layer 733.9 MB/733.9 MB
75c873eec901: Loading layer 312.4 MB/312.4 MB
a53c35e20c19: Loading layer 102.5 MB/102.5 MB
Loaded image: assistanz247/nanoserver-iis:latest
PS C:\> _
```

(<https://www.assistanz.c>

content/uploads/2017/04/image-211.png)

- ◆ Type **docker images** command to verify the image availability.

```
PS C:\> docker images
REPOSITORY          TAG          IMAGE ID          CREATED
assistanz247/nanoserver-iis  latest      02fa91a462a0     7 days ago
PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-212.png>)

VERIFICATION

- ◆ Launch a new container using the **assistanz247/nanoservder-iis:latest** image for verification.

```
PS C:\> docker run -it assistanz247/nanoserver-iis cmd
```

(<https://www.assi>

content/uploads/2017/04/image-213.png)

- ◆ Image launch successfully without any problem.

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

```
C:\>dir
```

```
Volume in drive C has no label.  
Volume Serial Number is 9085-3797
```

```
Directory of C:\
```

```
04/15/2017  12:31 AM    <DIR>          data  
04/24/2017  11:51 PM    <DIR>          inetpub  
11/20/2016  04:32 AM                1,894 License.txt  
07/16/2016  05:20 AM    <DIR>          Program Files  
07/16/2016  05:09 AM    <DIR>          Program Files (x86)  
04/24/2017  11:51 PM    <DIR>          Users  
04/24/2017  11:51 PM    <DIR>          Windows  
                1 File(s)                1,894 bytes  
                6 Dir(s)  21,201,158,144 bytes free
```

```
C:\>_
```

(<https://www.a>

content/uploads/2017/04/image-214.png)

VIDEO