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Create Transparent Network in Windows Co

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Posted by: Loges

Category: Blog, Containers

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Create Transparent Network in Windows Container

In this blog, we will show you how to create a transparent network in windows container using docker comm

INTRODUCTION

The transparent network allows containers to be on the same network as container host. We need use both docker commands to configure the transparent network for containers.

SETTING UP TRANSPARENT NETWORK

• First, we need to stop the docker service using below command.

stop-service docker



Delete the existing network before creating the transparent network. Execute the below command.

Get-ContainerNetwork | Remove-ContainerNetwork

```
PS C:\s\ Get-ContainerNetwork | Remove-ContainerNetwork

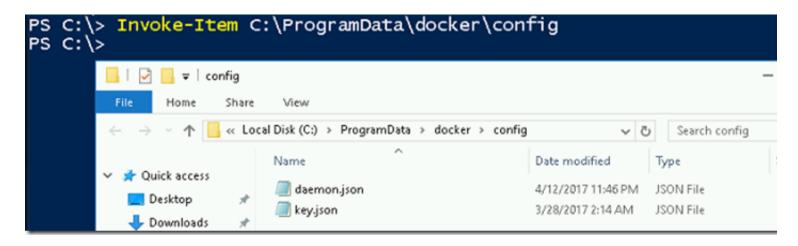
Confirm

Remove-ContainerNetwork will remove the container network "".

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default PS C:\> _
```

(https://www.assistanz.com/wp-content/uploads/2017/04/image-165.png)

• Open C:\ProgramData\docker\config folder.



(https://www.assistanz.com/wp-content/uploads/2017/04/image-166.png)

• Open the **daemon.json** file and add the below lines.

```
{
"bridge": "none"
}
```

content/uploads/2017/04/image-167.png)

- The above daemon file informs to docker engine that not to built the NAT network while starting the docker serv
- save and close the file.
- Start the docker service using start-service docker command.

```
PS C:\> start-service docker
WARNING: Waiting for service 'docker (Docker)' to start...
PS C:\>
PS C:\> get-service docker

Status Name DisplayName
----- Compared DisplayName
Running Docker docker

PS C:\> ______
```

content/uploads/2017/04/image-168.png)

• There will not be any container network if you execute **Get-ContainerNetwork** command.

```
PS C:\> Get-ContainerNetwork
PS C:\> (https://www.assistanz.com/wp-content/uploads/2017/0
```

CREATING TRANSPARENT NETWORK

• To create a transparent network, use the below command.

docker network create -d transparent TNET

docker network - Use to create docker networks.

Create – It's a sub-command to create a network.

-d – which driver to use to create a network. We need to give it as transparent.

TNET – Name for the network.

```
Administrator: Windows PowerShell (2)
PS C:\> docker network create -d transparent TNET
517f60e5bfc0350bbb77d3a6eb2930d3c45d1a3508df59ef105b7f89460fe551
PS C:\> __
```

(https://www.assistanz.com/wp-content/uploads/2017/04/image-170.png)

Note: docker network create command is the equivalent to new-containernetwork

• Type **Get-ContainerNetwork** to the information about the network.

```
PS C:\s\s\ Get-ContainerNetwork

Name
---
517f60e5bfc0350bbb77d3a6eb2930d3c45d1a3508df59ef105b7f89460fe551 08634bcc-d089-4191-8e9e-c2
```

(https://www.assistanz.com/wp-content/uploads/2017/04/image-171.png)

• If we run **docker network is** command, you can find network driver information.

(https://www.assistanz.com/wp-content/uploads/2017/04/image-172.png)

VERIFYING TRANSPARENT NETWORK

Launch new container using the below command.

docker run -it -network=TNET microsoft/nanoserver

• once the container is up and running, type **ipconfig** to verify the IP settings

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

C:\>ipconfig
Windows IP Configuration

Ethernet adapter vEthernet (Container NIC bcb283e2):

Connection-specific DNS Suffix .:

Link-local IPv6 Address . . . : fe80::1d90:a3bd:2ee1:a9a1%16

IPv4 Address . . . . . : 192.168.233.97

Subnet Mask . . . . . . . : 255.255.224.0

Default Gateway . . . . . : 192.168.224.1

C:\>__
```

(https://www.assistanz.com/wp-content/uploads/2017/04/image-173.png)

• The IP 192.168.233.97 is the physical network in our office. This container got the IP address from the physical DH

• Also, we will able to ping the internet domain.

(https://www.assistanz.com/wp-content/uploads/2017/04/image-174.png)

VIDEO