

# MCSA-Windows Server 2016 实现和管理-实验篇

程尊华





Recycle Bin

# LON-NVHOST2

Logged on user: lon-nvhost2\administrator

Microsoft Windows NT version 6.2 Datacenter Edition (Terminal server) (build 9200)

File Explorer



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Select Administrator: Windows PowerShell

Windows PowerShell  
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PS C:\Users\Administrator> **Install-PackageProvider** -Name NuGet -Force\_

Search Windows



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Administrator: Windows PowerShell

Windows PowerShell  
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PS C:\Users\Administrator> **Install-PackageProvider** -Name NuGet -Force

Name	Version	Source	Summary
-----	-----	-----	-----
nuget	2.8.5.208	https://onege...	NuGet provider for the OneGet meta-package manager

PS C:\Users\Administrator>



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Administrator: Windows PowerShell

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PS C:\Users\Administrator> **Install-PackageProvider** -Name NuGet -Force

Name	Version	Source	Summary
-----	-----	-----	-----
nuget	2.8.5.208	https://onege...	NuGet provider for the OneGet meta-package manager

PS C:\Users\Administrator> **Install-Module** -Name DockerMsftProvider -Repository PSGallery -Force\_



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Administrator: Windows PowerShell

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PS C:\Users\Administrator> **Install-PackageProvider** -Name NuGet -Force

Name	Version	Source	Summary
-----	-----	-----	-----
nuget	2.8.5.208	https://onege...	NuGet provider for the OneGet meta-package manager

PS C:\Users\Administrator> **Install-Module** -Name DockerMsftProvider -Repository PSGallery -Force

PS C:\Users\Administrator> \_



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```
Administrator: Windows PowerShell
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PS C:\Users\Administrator> Install-PackageProvider -Name NuGet -Force

Name
----
nuget
Version
-----
2.8.5.208
Source
-----
https://onege...
Summary
-----
NuGet provider for the OneGet meta-package manager

PS C:\Users\Administrator> Install-Module -Name DockerMsftProvider -Repository PSGallery -Force
PS C:\Users\Administrator> Install-Package -Name Docker -ProviderName DockerMsftProvider

The package(s) come(s) from a package source that is not marked as trusted.
Are you sure you want to install software from 'DockerDefault'?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "N"): Y
```



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```
Administrator: Windows PowerShell
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PS C:\Users\Administrator> Install-PackageProvider -Name NuGet -Force

Name
----
nuget
Version
-----
2.8.5.208
Source
-----
https://onege...
Summary
-----
NuGet provider for the OneGet meta-package manager

PS C:\Users\Administrator> Install-Module -Name DockerMsftProvider -Repository PSGallery -Force
PS C:\Users\Administrator> Install-Package -Name Docker -ProviderName DockerMsftProvider

The package(s) come(s) from a package source that is not marked as trusted.
Are you sure you want to install software from 'DockerDefault'?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "N"): Y
WARNING: A restart is required to start docker service. Please restart your machine.
WARNING: After the restart please start the docker service.

Name
----
Docker
Version
-----
17.03.0-ee
Source
-----
DockerDefault
Summary
-----
Contains Docker EE for use with Windows Server 2016...

PS C:\Users\Administrator>
PS C:\Users\Administrator> restart-computer -force_
```

Internet Explorer



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Recycle Bin

```
Administrator: Windows PowerShell
Windows PowerShell
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PS C:\Users\Administrator> docker search microsoft_
```



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Recycle Bin

Administrator: Windows PowerShell

Windows PowerShell

Copyright (C) 2016 Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> docker search microsoft

Error response from daemon: Get https://index.docker.io/v1/search?q=microsoft&n=25: dial tcp: lookup index.docker.io: getaddrinfo: No such host is known.

PS C:\Users\Administrator> docker pull microsoft/iis:windowsservercore\_



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Recycle Bin

Administrator: Windows PowerShell

```
Windows PowerShell
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PS C:\Users\Administrator> docker search microsoft
Error response from daemon: Get https://index.docker.io/v1/search?q=microsoft&n=25: dial tcp: lookup index.docker.io: getaddrinfo: No such host is known.
PS C:\Users\Administrator> docker pull microsoft/iis:windowsservercore
windowsservercore: Pulling from microsoft/iis
3889bb8d808b: Downloading [>] 540.7 kB/4.07 GB
503d87f3196a: Pulling fs layer
ea440dc770db: Downloading [==>] 5.895 MB/129.8 MB
46f765ced05f: Waiting
640f08987e57: Waiting
a81c4ca315a9: Waiting
```

Internet Explorer



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Recycle Bin

Select Administrator: Windows PowerShell

```
Windows PowerShell
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PS C:\Users\Administrator> docker search microsoft
Error response from daemon: Get https://index.docker.io/v1/search?q=microsoft&n=25: dial tcp: lookup index.docker.io: getaddrinfo: No such host is known.
PS C:\Users\Administrator> docker pull microsoft/iis:windowsservercore
windowsservercore: Pulling from microsoft/iis
3889bb8d808b: Downloading [=====] 1.229 GB/4.07 GB
503d87f3196a: Download complete
ea440dc770db: Download complete
46f765ced05f: Download complete
640f08987e57: Download complete
a81c4ca315a9: Download complete
```



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Task Manager

Resource Monitor

File Monitor Help

Overview CPU Memory Disk Network

### Processes with Network Activity

<input checked="" type="checkbox"/> Image	PID	Send (B/sec)	Receive (B/sec)	Total (B/sec)
<input checked="" type="checkbox"/> dockerd.exe	1492	1	2,618,637	2,618,638
<input type="checkbox"/> svchost.exe (netsvcs)	2520	21	21	42
<input type="checkbox"/> svchost.exe (NetworkService)	388	16	7	24

### Network Activity

17 Mbps Network I/O 0% Network Utilization

Filtered by dockerd.exe

Image	PID	Address	Send (B/s...	Receive (B...	Total (B/sec)
dockerd.exe	1492	72.21.81....	1	2,618,637	2,618,638

### TCP Connections

Views

Network 100 Mbps

60 Seconds

TCP Connections

Ethernet 100%

vEthernet (HNS Internal... 100%





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```
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PS C:\Users\Administrator> docker search microsoft
Error response from daemon: Get https://index.docker.io/v1/search?q=microsoft&n=25: dial tcp: lookup index.docker.io: getaddrinfo: No such host is known.
PS C:\Users\Administrator> docker pull microsoft/iis:windowsservercore
windowsservercore: Pulling from microsoft/iis
3889bb8d808b: Extracting [=====] 3.618 GB/4.07 GB
503d87f3196a: Download complete
ea440dc770db: Download complete
46f765ced05f: Download complete
640f08987e57: Download complete
a81c4ca315a9: Download complete
```

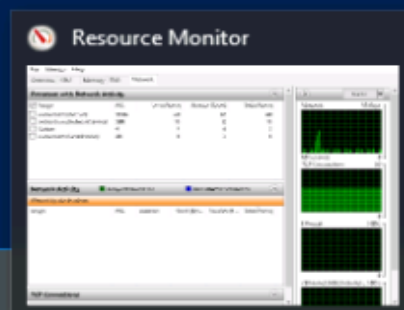




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```
Administrator: Windows PowerShell
Windows PowerShell
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PS C:\Users\Administrator> docker search microsoft
Error response from daemon: Get https://index.docker.io/v1/search?q=microsoft&n=25: dial tcp: lookup index.docker.io: getaddrinfo: No such host is known.
PS C:\Users\Administrator> docker pull microsoft/iis:windowsservercore
windowsservercore: Pulling from microsoft/iis
3889bb8d808b: Pull complete
503d87f3196a: Extracting [=====] 829.5 MB/1.147 GB
ea440dc770db: Download complete
46f765ced05f: Download complete
640f08987e57: Download complete
a81c4ca315a9: Download complete
```



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Recycle Bin

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> docker search microsoft
Error response from daemon: Get https://index.docker.io/v1/search?q=microsoft&n=25: dial tcp: lookup index.docker.io: ge
taddrinfo: No such host is known.
PS C:\Users\Administrator> docker pull microsoft/iis:windowsservercore
windowsservercore: Pulling from microsoft/iis
3889bb8d808b: Pull complete
503d87f3196a: Pull complete
ea440dc770db: Pull complete
46f765ced05f: Pull complete
640f08987e57: Pull complete
a81c4ca315a9: Pull complete
Digest: sha256:6acdf40399b9225b8262054fe540db1d2e965360e157a882c3715d0da564759d
Status: Downloaded newer image for microsoft/iis:windowsservercore
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator>
```



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Administrator: Windows PowerShell

```
PS C:\Users\Administrator> docker run -d -p 80:80 microsoft/iis:windowsservercore cmd
```

Search Windows



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Recycle Bin

```
Administrator: Windows PowerShell
PS C:\Users\Administrator> docker run -d -p 80:80 microsoft/iis:windowsservercore cmd
a5a6c472463c9e713f536c77bf5d72319d892282daeb61760a7a06a4d1699768
```



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Recycle Bin

Select Administrator: Windows PowerShell

```
PS C:\Users\Administrator> docker run -d -p 80:80 microsoft/iis:windowsservercore cmd
a5a6c472463c9e713f536c77bf5d72319d892282daeb61760a7a06a4d1699768
PS C:\Users\Administrator> ipconfig
```

Windows IP Configuration

Ethernet adapter Ethernet:

```
Connection-specific DNS Suffix . : 
Link-local IPv6 Address . . . . . : fe80::d0b5:d02:8fb9:2664%2
IPv4 Address. . . . . : 172.16.0.32
Subnet Mask . . . . . : 255.255.0.0
Default Gateway . . . . . : 172.16.0.1
```

Ethernet adapter vEthernet (HNS Internal NIC):

```
Connection-specific DNS Suffix . : 
Link-local IPv6 Address . . . . . : fe80::4c8:7109:8dfc:9091%11
IPv4 Address. . . . . : 172.31.224.1
Subnet Mask . . . . . : 255.255.240.0
Default Gateway . . . . . :
```

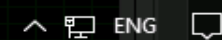
Tunnel adapter isatap.{0676D6D5-1B1C-4841-9209-F765DF24C93B}:

```
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
```

Tunnel adapter isatap.{71C28D5C-CAA3-49F3-B2FA-6CB40D5B9C89}:

```
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
```

PS C:\Users\Administrator>



Windows Server

# Internet Information Services

Welcome

Bienvenue

Tervetuloa

ようこそ Benvenuto

歡迎

Bem-vindo

Bienvenido

Hoş geldiniz

ברוכים הבאים

Welkom

Vítejte

Καλώς  
ορίσαστε

Välkommen

환영합니다

Добро  
пожаловать

Üdvözljük

مرحبا 歡迎

Microsoft

Willkommen

Velkommen

Witamy





Recycle Bin

```
Administrator: Windows PowerShell

PS C:\Users\Administrator> docker run -d -p 80:80 microsoft/iis:windowsservercore cmd
a5a6c472463c9e713f536c77bf5d72319d892282daeb61760a7a06a4d1699768
PS C:\Users\Administrator> ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::d0b5:d02:8fb9:2664%2
    IPv4 Address. . . . . : 172.16.0.32
    Subnet Mask . . . . . : 255.255.0.0
    Default Gateway . . . . . : 172.16.0.1

Ethernet adapter vEthernet (HNS Internal NIC):

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::4c8:7109:8dfc:9091%11
    IPv4 Address. . . . . : 172.31.224.1
    Subnet Mask . . . . . : 255.255.240.0
    Default Gateway . . . . . : 

Tunnel adapter isatap.{0676D6D5-1B1C-4841-9209-F765DF24C93B}:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 

Tunnel adapter isatap.{71C28D5C-CAA3-49F3-B2FA-6CB40D5B9C89}:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 
PS C:\Users\Administrator> docker ps
CONTAINER ID        IMAGE               COMMAND                  CREATED            STATUS
PORTS              NAMES
a5a6c472463c        microsoft/iis:windowsservercore  "C:\ServiceMonitor..." 10 minutes ago    Up 9 minutes
0.0.0.0:80->80/tcp  practical_joliot
PS C:\Users\Administrator>
```

File Explorer



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Recycle Bin

Administrator: Windows PowerShell

```
PS C:\Users\Administrator> docker run -d -p 80:80 microsoft/iis:windowsservercore cmd  
a5a6c472463c9e713f536c77bf5d72319d892282daeb61760a7a06a4d1699768
```

```
PS C:\Users\Administrator> ipconfig
```

Windows IP Configuration

Ethernet adapter Ethernet:

```
Connection-specific DNS Suffix . :  
Link-local IPv6 Address . . . . . : fe80::d0b5:d02:8fb9:2664%2  
IPv4 Address. . . . . : 172.16.0.32  
Subnet Mask . . . . . : 255.255.0.0  
Default Gateway . . . . . : 172.16.0.1
```

Ethernet adapter vEthernet (HNS Internal NIC):

```
Connection-specific DNS Suffix . :  
Link-local IPv6 Address . . . . . : fe80::4c8:7109:8dfc:9091%11  
IPv4 Address. . . . . : 172.31.224.1  
Subnet Mask . . . . . : 255.255.240.0  
Default Gateway . . . . . :
```

Tunnel adapter isatap.{0676D6D5-1B1C-4841-9209-F765DF24C93B}:

```
Media State . . . . . : Media disconnected  
Connection-specific DNS Suffix . :
```

Tunnel adapter isatap.{71C28D5C-CAA3-49F3-B2FA-6CB40D5B9C89}:

```
Media State . . . . . : Media disconnected  
Connection-specific DNS Suffix . :
```

```
PS C:\Users\Administrator> docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
a5a6c472463c	microsoft/iis:windowsservercore	"C:\\ServiceMonitor..."	10 minutes ago	Up 9 minutes

```
0.0.0.0:80->80/tcp practical_joliot
```

```
PS C:\Users\Administrator> docker stop a5a6c472463c
```

```
a5a6c472463c
```

```
PS C:\Users\Administrator> _
```



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# This page can't be displayed

- Make sure the web address <http://172.16.0.32/> is correct.
- Look for the page with your search engine.
- Refresh the page in a few minutes.

Fix connection problems





Recycle Bin

# Administrator: Windows PowerShell

```
PS C:\Users\Administrator> docker run -d -p 80:80 microsoft/iis:windowsservercore cmd  
a5a6c472463c9e713f536c77bf5d72319d892282daeb61760a7a06a4d1699768  
PS C:\Users\Administrator> ipconfig
```

Windows IP Configuration

Ethernet adapter Ethernet:

```
Connection-specific DNS Suffix . :  
Link-local IPv6 Address . . . . . : fe80::d0b5:d02:8fb9:2664%2  
IPv4 Address. . . . . : 172.16.0.32  
Subnet Mask . . . . . : 255.255.0.0  
Default Gateway . . . . . : 172.16.0.1
```

Ethernet adapter vEthernet (HNS Internal NIC):

```
Connection-specific DNS Suffix . :  
Link-local IPv6 Address . . . . . : fe80::4c8:7109:8dfc:9091%11  
IPv4 Address. . . . . : 172.31.224.1  
Subnet Mask . . . . . : 255.255.240.0  
Default Gateway . . . . . :
```

Tunnel adapter isatap.{0676D6D5-1B1C-4841-9209-F765DF24C93B}:

```
Media State . . . . . : Media disconnected  
Connection-specific DNS Suffix . :
```

Tunnel adapter isatap.{71C28D5C-CAA3-49F3-B2FA-6CB40D5B9C89}:

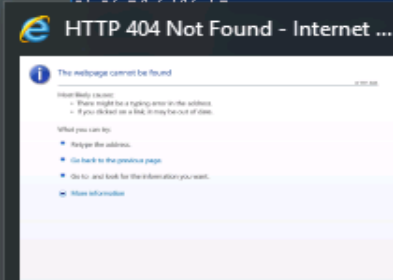
```
Media State . . . . . : Media disconnected  
Connection-specific DNS Suffix . :
```

```
PS C:\Users\Administrator> docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
a5a6c472463c	microsoft/iis:windowsservercore	"C:\\ServiceMonitor..."	10 minutes ago	Up 9 minutes

```
PS C:\Users\Administrator> docker stop a5a6c472463c  
PS C:\Users\Administrator> docker rm a5a6c472463c
```

HTTP 404 Not Found - Internet Explorer



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最后祝大家学习顺利！再次感谢！

