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Install IIS in NANO Server container

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[\(https://www.assistanz.com/category/blog/containers/install-iis-in-nano-server-container/\)](https://www.assistanz.com/category/blog/containers/install-iis-in-nano-server-container/)

Install IIS IN NANO SERVER CONTAINER

In this blog, we will show you how to Install IIS in NANO Server container server using DISM commands.

SYSTEM REQUIREMENTS

- ♦ Windows Container Host
- ♦ IIS Package for NANO server

PREPARING FOR INSTALLATION

First download the IIS offline for nano server using below command.

**Save-Module -Path "\$Env:ProgramFiles\WindowsPowerShell\Modules\" -Name NanoServerPackage
MinimumVersion 1.0.1.0**

```
PS C:\> Save-Module -Path "$Env:ProgramFiles\WindowsPowerShell\Modules\" -Name NanoServerPackage
PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-175.png>)

- ◆ Then import the nanoserver package

Import-PackageProvider NanoServerPackage

```
PS C:\> Import-PackageProvider NanoServerPackage

Name                Version          DynamicOptions
----                -
NanoServerPackage    1.0.1.0          ToVhd, FromVhd, DisplayCulture, Culture, Imag

PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-176.png>)

- ◆ You can list the available nanoserver package using **find** command.

Find-NanoServerPackage *

```
PS C:\> Find-NanoServerPackage *
```

Name	Version	Culture	Description
Microsoft-NanoServer-IPHelper-Service-Package	10.0.14393.576	cs-cz, de-de,...	Provides
Microsoft-NanoServer-SCVMM-Compute-Package	10.0.14393.0	cs-cz, de-de,...	Includes
Microsoft-NanoServer-ShieldedVM-Package	10.0.14393.0	cs-cz, de-de,...	Includes
Microsoft-NanoServer-Compute-Package	10.0.14393.0	cs-cz, de-de,...	Includes
Microsoft-NanoServer-SecureStartup-Package	10.0.14393.0	cs-cz, de-de,...	Includes
Microsoft-NanoServer-OEM-Drivers-Package	10.0.14393.0	cs-cz, de-de,...	Includes
Microsoft-NanoServer-Storage-Package	10.0.14393.0	cs-cz, de-de,...	Includes
Microsoft-NanoServer-Defender-Package	10.0.14393.0	cs-cz, de-de,...	Includes
Microsoft-NanoServer-DSC-Package	10.0.14393.0	cs-cz, de-de,...	Includes
Microsoft-NanoServer-DNS-Package	10.0.14393.0	cs-cz, de-de,...	Includes
Microsoft-NanoServer-IIS-Package	10.0.14393.0	cs-cz, de-de,...	Includes
Microsoft-NanoServer-DCB-Package	10.0.14393.0	cs-cz, de-de,...	Includes
Microsoft-NanoServer-FailoverCluster-Package	10.0.14393.0	cs-cz, de-de,...	Includes
Microsoft-NanoServer-SoftwareInventoryLogging-P...	10.0.14393.0	cs-cz, de-de,...	Includes
Microsoft-NanoServer-Host-Package	10.0.14393.0	cs-cz, de-de,...	Includes
Microsoft-NanoServer-SNMP-Agent-Package	10.0.14393.576	cs-cz, de-de,...	Simple Ne
Microsoft-NanoServer-SCVMM-Package	10.0.14393.0	cs-cz, de-de,...	Includes
Microsoft-NanoServer-Guest-Package	10.0.14393.0	cs-cz, de-de,...	Includes
Microsoft-NanoServer-Containers-Package	10.0.14393.0	cs-cz, de-de,...	Includes

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

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-177.png>)

- ◆ Download the IIS package for using the server to C:\Package folder using below command.

Save-NanoServerPackage -Name Microsoft-NanoServer-IIS-Package -Path C:\Package

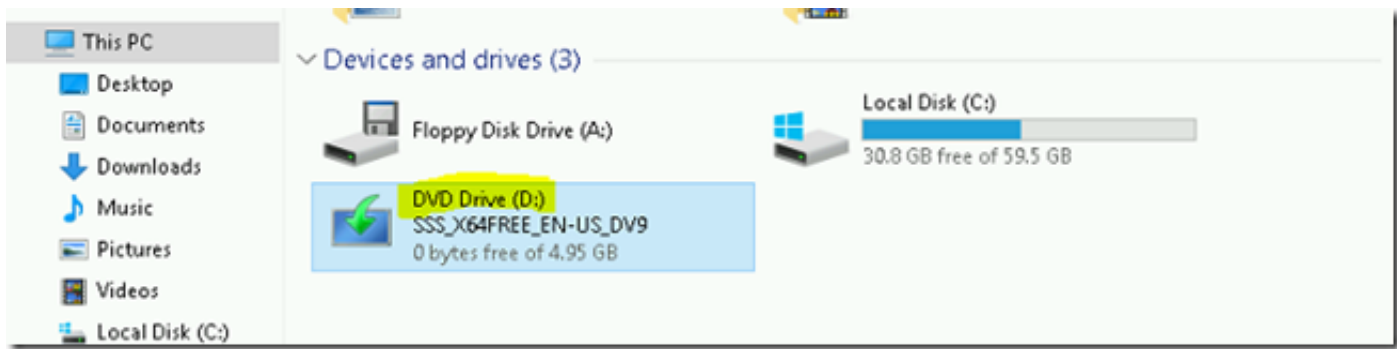
```
PS C:\> Save-NanoServerPackage -Name Microsoft-NanoServer-IIS-Package -Path C:\Package
```

Name	Version	Culture	Description
Microsoft-NanoServer-IIS-Package	10.0.14393.0	en-US	Includes

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

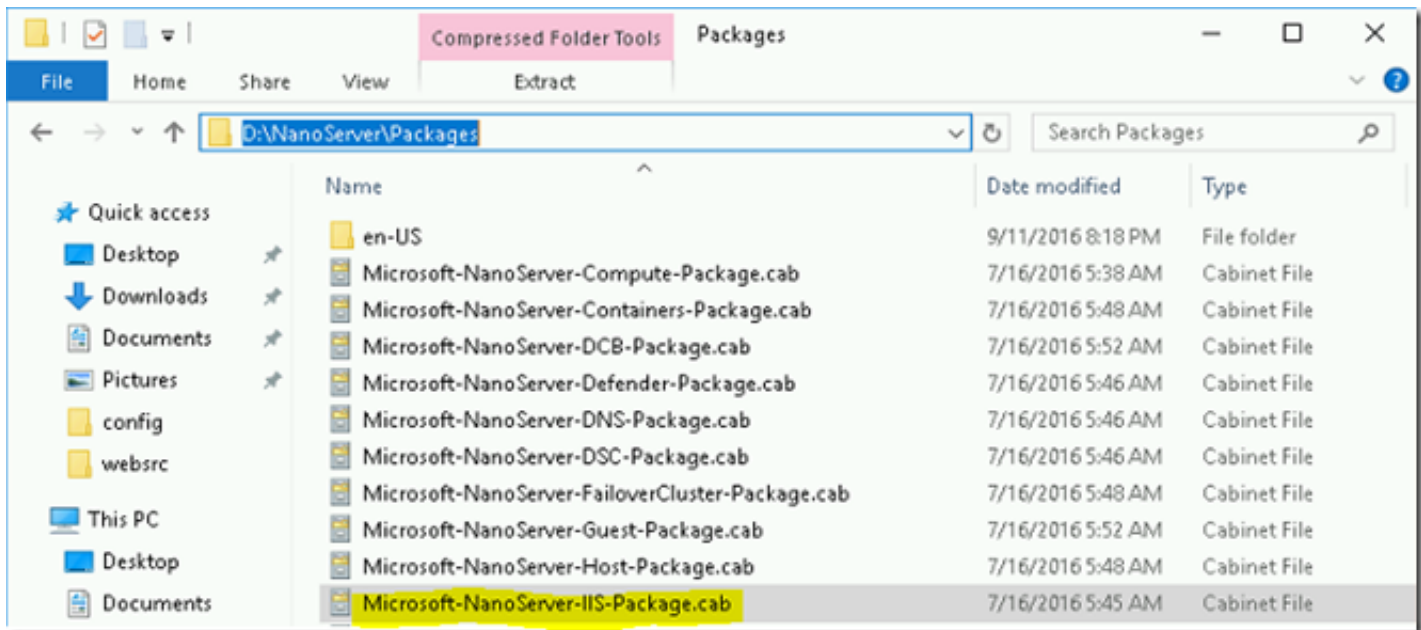
(<https://www.assistanz.com/wp-content/uploads/2017/04/image-178.png>)

- ◆ Mount windows 2016 ISO as a drive in windows container host server.

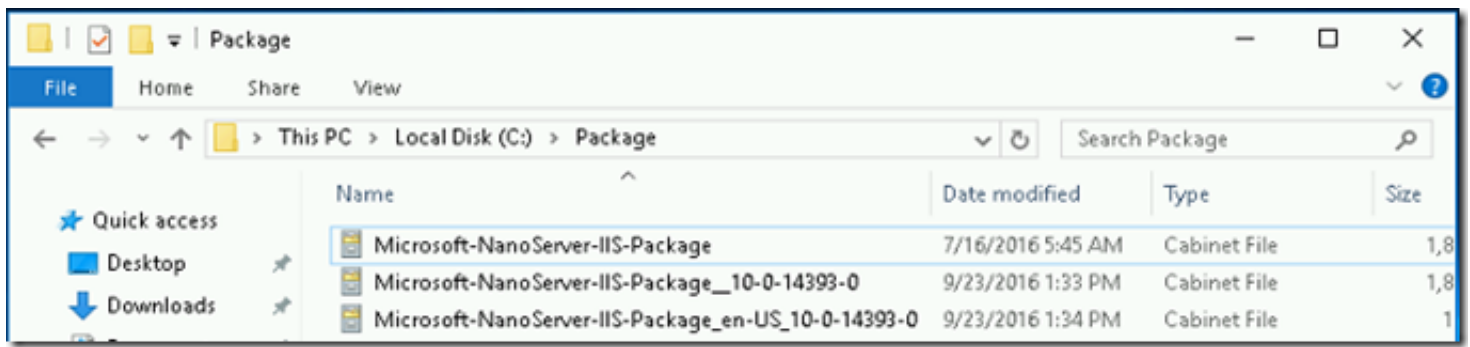


(<https://www.assistanz.com/wp-content/uploads/2017/04/image-179.png>)

- ◆ Copy the nanoserver package from windows 2016 ISO to **C:\packages** folder on container host server. In this d folder path is **D:\NanoServer\Packages** folder.



(<https://www.assistanz.com/wp-content/uploads/2017/04/image-180.png>)



(<https://www.assistanz.com/wp-content/uploads/2017/04/image-181.png>)

CREATING CONTAINER

- ◆ Create a container using along with port mapping and folder sharing using below command.

docker run --name nanoiis -p 80:80 -it -v c:\install:c:\data microsoft/nanoserver powershell

docker – Base command for docker CLI

run – To start a new Container

--name nanoiis – To name the container

-p – Specify the port mapping

80 (left-hand side) source port– Map the windows container host port.

80 (right-hand side) Destination port – Map the container port.

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

c:\install – It's the source folder from the container host

c:\data – Define the path where the source folder to be mounted inside the container.

microsoft/nanoserver – Image to start the container

PowerShell – To kickstart a process inside the container

```
PS C:\> docker run --name nanoiis -p 80:80 -it -v c:\install:c:\data microsoft/nano
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-182.png>)

- ◆ Once the container is up and running, type **dir** to verify the data folder is available.

```
PS C:\> dir

Directory: C:\

Mode                LastWriteTime         Length Name
----                -
d-----l       4/16/2017   10:17 PM             data
d-----       4/16/2017   10:17 PM      Program Files
d-----       7/16/2016    5:09 AM      Program Files (x86)
d-r---       4/16/2017   10:17 PM             Users
d-----       4/16/2017   10:17 PM             Windows
-a-----      11/20/2016    3:32 AM          1894 License.txt

PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-183.png>)

INSTALLING IIS

- ◆ Once the container is up and running, verify the **data** folder is available.

```
PS C:\> dir

Directory: C:\


Mode                LastWriteTime         Length Name
----                -
d-----1       4/15/2017   2:34 AM             data
d-----       4/15/2017   2:34 AM        Program Files
d-----       7/16/2016   5:09 AM        Program Files (x86)
d-r-----       4/15/2017   2:34 AM             Users
d-----       4/15/2017   2:35 AM             Windows
-a-----      11/20/2016   3:32 AM         1894 License.txt

PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-184.png>)

- ◆ Create a new folder name **software**

```
PS C:\> mkdir software

Directory: C:\


Mode                LastWriteTime         Length Name
----                -
d-----       4/15/2017   2:47 AM             software

PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-185.png>)

- ◆ Copy all the CAB files from data folder to software folder.

```
PS C:\data> dir

Directory: C:\data

Mode                LastWriteTime         Length Name
----                -
-a----          7/16/2016   5:45 AM         1943783 Microsoft-NanoServer-IIS-Package.cab
-a----          9/23/2016   1:34 PM         156378 Microsoft-NanoServer-IIS-Package_en-US_10-0-14393-0.cab
-a----          9/23/2016   1:33 PM         1943783 Microsoft-NanoServer-IIS-Package__10-0-14393-0.cab

PS C:\data> copy *.* c:\software
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-186.png>)

```
PS C:\software> dir

Directory: C:\software

Mode                LastWriteTime         Length Name
----                -
-a----          7/16/2016   5:45 AM         1943783 Microsoft-NanoServer-IIS-Package.cab
-a----          9/23/2016   1:34 PM         156378 Microsoft-NanoServer-IIS-Package_en-US_10-0-14393-0.cab
-a----          9/23/2016   1:33 PM         1943783 Microsoft-NanoServer-IIS-Package__10-0-14393-0.cab

PS C:\software> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-187.png>)

- ◆ Execute the below command using the DISM tool.

Dism.exe /online /Add-Package /PackagePath:c:\software\Microsoft-NanoServer-IIS-Package__10

- ◆ It will complete with errors. You can **ignore** it.


```

PS C:\> Dism.exe /online /Add-Package /PackagePath:c:\software\Microsoft-NanoServer-IIS-Package_
Deployment Image Servicing and Management tool
Version: 10.0.14393.0

Image Version: 10.0.14393.0

Processing 1 of 1 - Adding package Microsoft-NanoServer-IIS-Package~31bf3856ad364e35~amd64~~10.0
[=====100.0%=====]
An error occurred - Microsoft-NanoServer-IIS-Package Error: 0x800f0922

Error: 0x800f0922

DISM failed. No operation was performed.
For more information, review the log file.

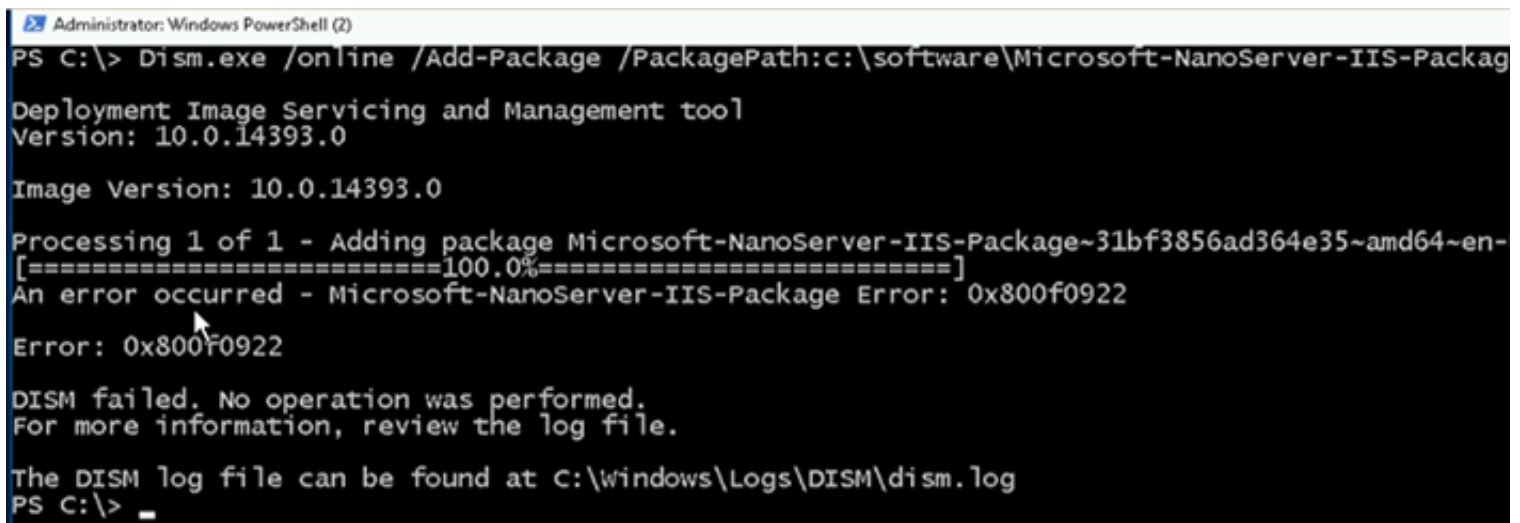
The DISM log file can be found at C:\windows\Logs\DISM\dism.log
PS C:\> _

```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-188.png>)

- ◆ Install the second CAB File.

Dism.exe /online /Add-Package /PackagePath:c:\software\Microsoft-NanoServer-IIS-Package_en-0.cab



```

Administrator: Windows PowerShell (2)
PS C:\> Dism.exe /online /Add-Package /PackagePath:c:\software\Microsoft-NanoServer-IIS-Packag
Deployment Image Servicing and Management tool
Version: 10.0.14393.0

Image Version: 10.0.14393.0

Processing 1 of 1 - Adding package Microsoft-NanoServer-IIS-Package~31bf3856ad364e35~amd64~en-
[=====100.0%=====]
An error occurred - Microsoft-NanoServer-IIS-Package Error: 0x800f0922

Error: 0x800f0922

DISM failed. No operation was performed.
For more information, review the log file.

The DISM log file can be found at C:\windows\Logs\DISM\dism.log
PS C:\> _

```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-189.png>)

- ◆ Go ahead and install the **Microsoft-NanoServer-IIS-Package** CAB file using below command.

Dism.exe /online /Add-Package /PackagePath:c:\software\Microsoft-NanoServer-IIS-Package.cab

```
PS C:\> Dism.exe /online /Add-Package /PackagePath:c:\software\Microsoft-NanoServer-IIS-Package.c
Deployment Image Servicing and Management tool
Version: 10.0.14393.0

Image Version: 10.0.14393.0

Processing 1 of 1 - Adding package Microsoft-NanoServer-IIS-Package~31bf3856ad364e35~amd64~~10.0.
[=====100.0%=====]
The operation completed successfully.
PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-190.png>)

Start the **W3SVC** service.

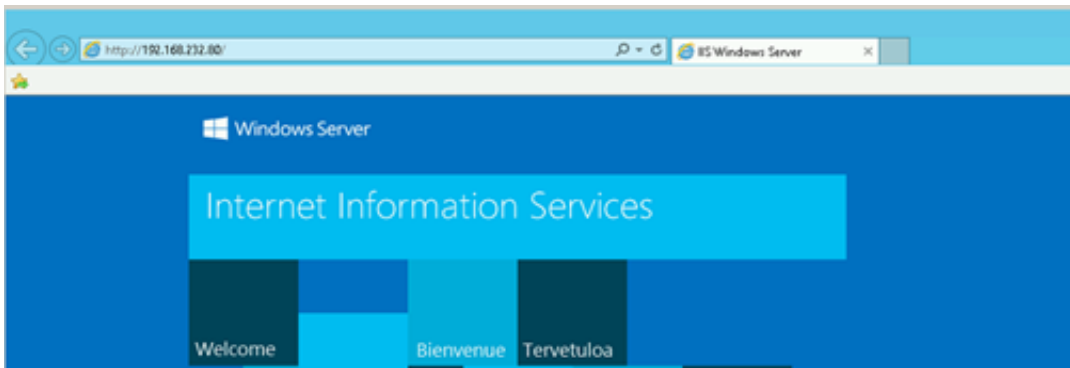
```
PS C:\> start-service w3svc
PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/04/image-191.png>)

191.png)

VERIFYING IIS

- ◆ We are able to access the nano server web application using window container host IP.



(<https://www.assistanz.com/wp-content/uploads/2017/04/image-192.png>)



([HTTPS://WWW.ASSISTANZ.COM/](https://www.assistanz.com/))

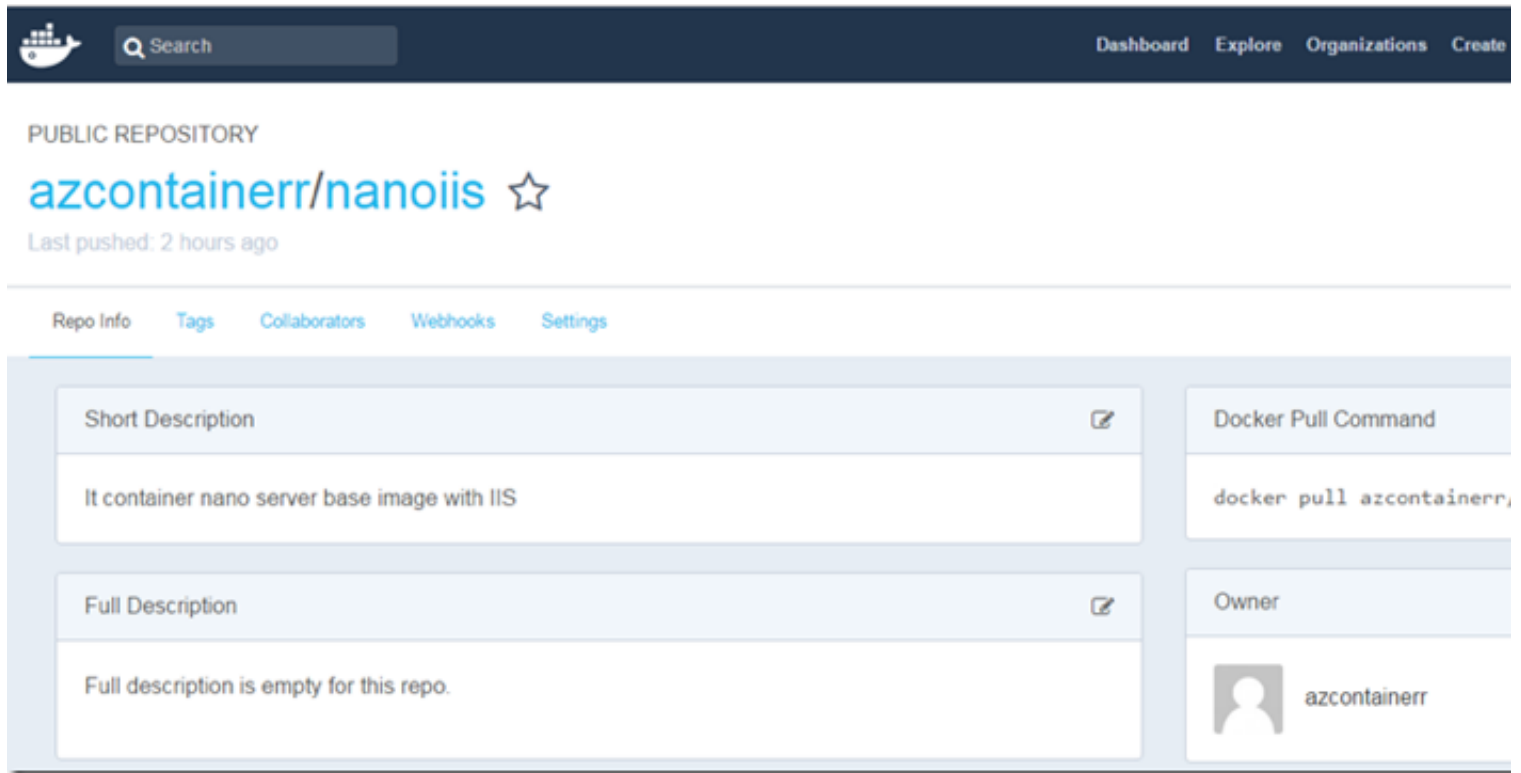
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content/uploads/2017/04/image-192.png)

- ◆ You can download the nano server container image from docker repository.



(<https://www.assistanz.com/wp-content/uploads/2017/04/image-193.png>)

Thanks for reading this blog. We hope it was useful for you to learn how to install IIS on nano server c

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Logeswaran holds Microsoft certified engineer & solution architect certifications with over 11+ years of experience in the fields of hosting technologies and IMS/Cloud consulting. At AssistanZ, Logeswaran spearheads the strategic planning and execution of the company's Microsoft based core technologies to Enterprise customers.