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(https://www.assis
docker-on-nar

Installing Docker on Nano Server in

windows 2016

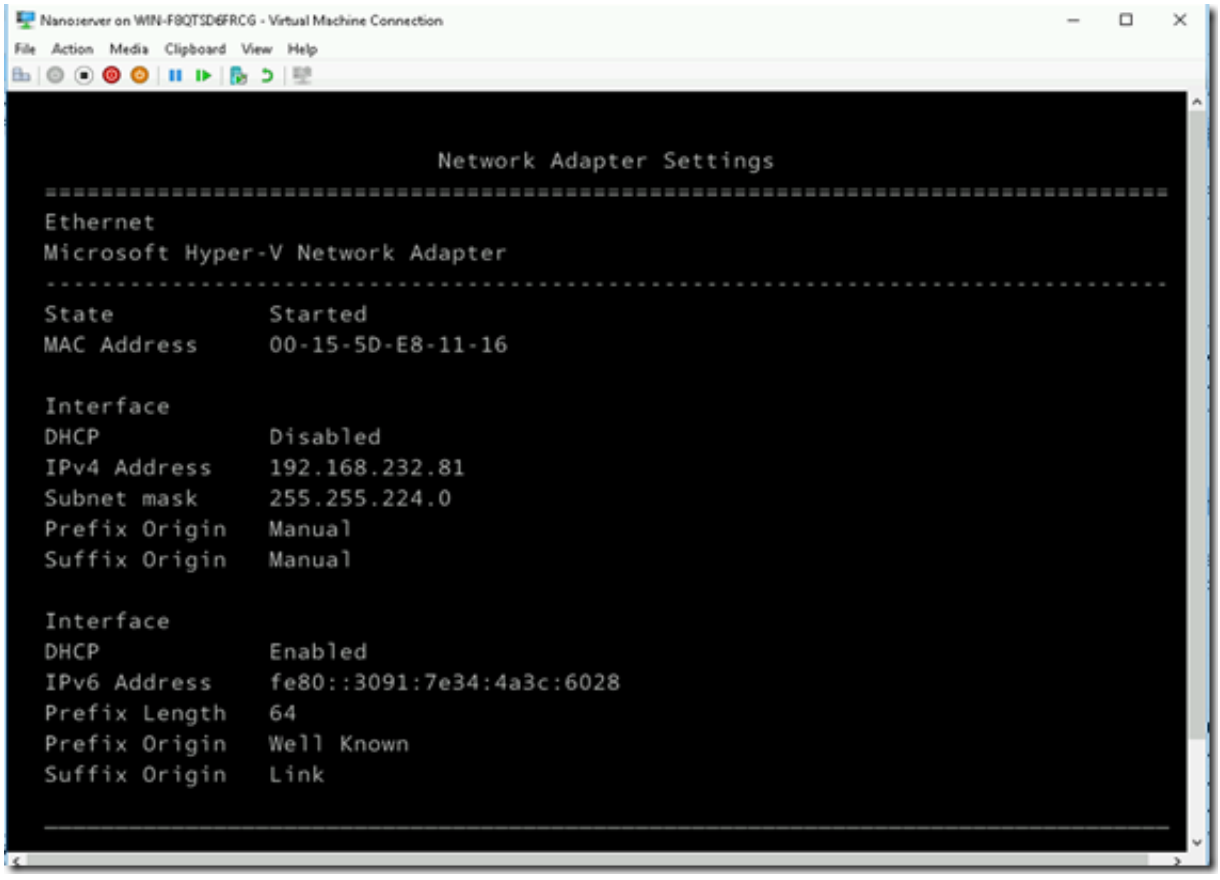
In this blog, we will show you installing docker on nano server.

REQUIREMENTS

- A Nano server with static (or) dynamic IP.

NANO SERVER OVERVIEW

- We have already installed a nano server VM for this demonstration. We also set an IP as **192.168.232.81** and it's in



(https://www.assista

content/uploads/2017/03/image-115.png)

ACCESSING NANO SERVER REMOTE SERVER

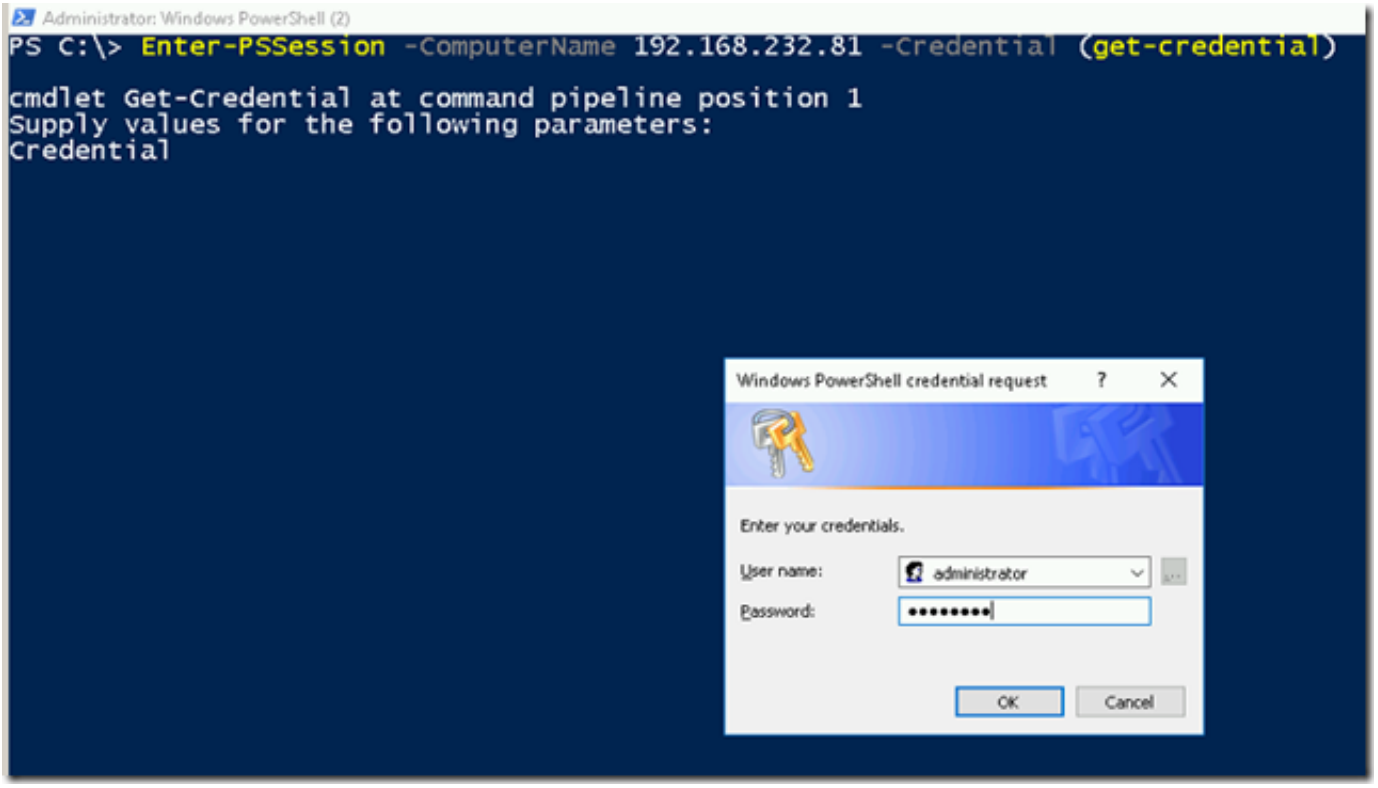
- As this nano server is not in a domain, we need to add the nano server IP in the **trusted host** on the remote serv trusted hosts execute the below command.

Set-Item WSMan:\localhost\Client\TrustedHosts 192.168.232.81 -Force

(https://www.assistanz.com/wp-content/uploads/2017/03/image-116.png)

- To access the nano server remotely, execute the below command.

Enter-PSSession -ComputerName 192.168.232.81 -Credential (get-credential)



(https://www.assistanz.com/wp-content/uploads/2017/03/image-117.png)

Provide the login credentials and click OK.

- After successful login, the PowerShell prompt will look like below.

(https://www.assistanz.com/wp-content/uploads/2017/03/image-118.png)

You can see the Nano server IP on left side of command prompt.

INSTALLING WINDOWS UPDATES ON NANO SERVER

POWERSHELL COMMANDS:

- To install the windows updates, execute the below commands.

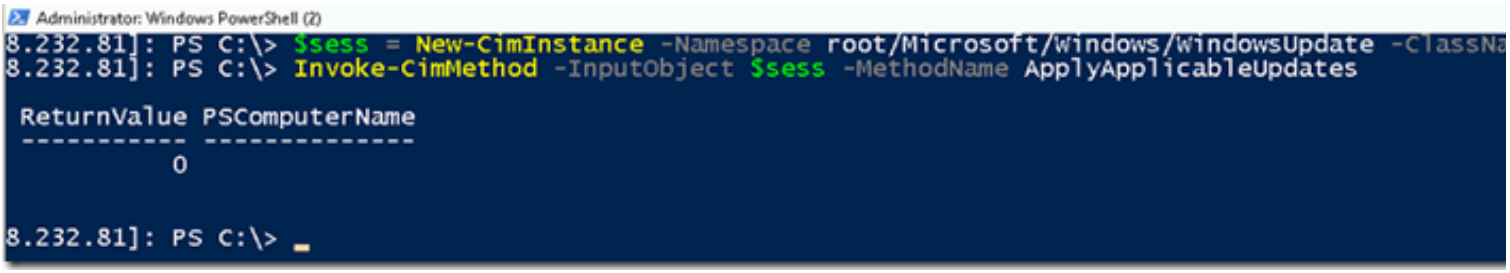
$sess = New-CimInstance -Namespace root/Microsoft/Windows/WindowsUpdate -ClassName MSFT_WUOperationsSession

Invoke-CimMethod -InputObject $sess -MethodName ApplyApplicableUpdates

The first command will create a session using N**ew-Ciminstance** cmdlet for **MSFT_WUOperationsSession** are invoking a CIM method for MSFT_WUOperationsSession class for the method **ApplyApplicableUpdates**

(https://www.assistanz.com/wp-content/uploads/2017/03/image-119.png)

- Once the installation completes, it shows the return value as 0. It means, all the updates has been installed succe



(https://www.assistanz.com/wp-content/uploads/2017/03/image-120.png)

- Restart the nano server to apply the changes using below command.

Restart-Computer

(https://www.assistanz.com/wp-content/uploads/2017/03/image-121.png)

Then exit the session using **exit** command and re-connect the server using **PSSession** command.

INSTALLING NuGet PROVIDER

- Once you reconnect to the nano server, execute the below command to install NuGet provider for docker.

Install-Module -Name DockerMsftProvider -Repository PSGallery -Force

(https://www.assistanz.com/wp-content/uploads/2017/03/image-122.png)

- Type Y and press enter to import the NuGet provider.

```
[192.168.232.81]: PS C:\> Install-Module -Name DockerMsftProvider -Repository PSGallery -Force

NuGet provider is required to continue
PowerShellGet requires NuGet provider version '2.8.5.201' or newer to interact with NuGet-based repositories. T
NuGet provider must be available in 'C:\Program Files\PackageManagement\ProviderAssemblies' or
'C:\Users\Administrator\AppData\Local\PackageManagement\ProviderAssemblies'. You can also install the NuGet
provider by running 'Install-PackageProvider -Name NuGet -MinimumVersion 2.8.5.201 -Force'. Do you want
PowerShellGet to install and import the NuGet provider now?
[Y] Yes  [N] No  [?] Help (default is "Y"): Y
```

(https://www.assistanz.com/wp-content/uploads/2017/03/image-123.png)

- It shows the PowerShell command prompt once the installation is complete.

```
[192.168.232.81]: PS C:\> Install-Module -Name DockerMsftProvider -Repository PSGallery -Force

NuGet provider is required to continue
PowerShellGet requires NuGet provider version '2.8.5.201' or newer to interact with NuGet-based repositories.
NuGet provider must be available in 'C:\Program Files\PackageManagement\ProviderAssemblies' or
'C:\Users\Administrator\AppData\Local\PackageManagement\ProviderAssemblies'. You can also install the NuGet
provider by running 'Install-PackageProvider -Name NuGet -MinimumVersion 2.8.5.201 -Force'. Do you want
PowerShellGet to install and import the NuGet provider now?
[Y] Yes  [N] No  [?] Help (default is "Y"): Y
[192.168.232.81]: PS C:\>
```

(https://www.assistanz.com/wp-content/uploads/2017/03/image-124.png)

INSTALLING DOCKER SERVICE

- From the PowerShell command prompt, execute the below command to install docker package.

Install-Package -Name docker -ProviderName DockerMsftProvider –verbose

```
[192.168.232.81]: PS C:\> Install-Package -Name docker -ProviderName DockerMsftProvider -V
VERBOSE: Importing package provider 'DockerMsftProvider'.
```

(https://www.assistanz.com/wp-content/uploads/2017/03/image-125.png)

- Type **A** and press enter to accept the non-trusted docker package.

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

(https://www.assistanz.com/wp-content/uploads/2017/03/image-126.png)

- Installation is completed and we need to restart the nano server to apply the changes.

```
VERBOSE: Found C:\Users\ADMINI~1\AppData\Local\Temp\DockerMsftProvider\Docker-17-03-0-ee.zip to install.
VERBOSE: Trying to unzip : C:\Users\ADMINI~1\AppData\Local\Temp\DockerMsftProvider\Docker-17-03-0-ee.zip
VERBOSE: Preparing to expand...
VERBOSE: Adding 'C:\Program Files\docker\'.
VERBOSE: Created 'C:\Program Files\docker\docker.exe'.
VERBOSE: Created 'C:\Program Files\docker\dockerd.exe'.
VERBOSE: Trying to enable the docker service...
VERBOSE: Removing the archive: C:\Users\ADMINI~1\AppData\Local\Temp\DockerMsftProvider\Docker-17-03-0-ee.zip
WARNING: A restart is required to start docker service. Please restart your machine.
WARNING: After the restart please start the docker service.

Name                           Version          Source           Summary
----                           -------          ------           -------
Docker                         17.03.0-ee       DockerDefault    Contains Docker EE for use with Windows Server 20

[192.168.232.81]: PS C:\> _
```

(https://www.assistanz.com/wp-content/uploads/2017/03/image-127.png)

- Restart the nano server using the below command.

Restart-Computer

```
[192.168.232.81]: PS C:\> restart-computer
[192.168.232.81]: PS C:\> _
```

(https://www.assistanz.com/wp-content/uploads/2017/03/image-128.png)

VERIFYING DOCKER SERVICE

- Reconnect the nano server and check the status of the docker service using below command.

Get-Service docker

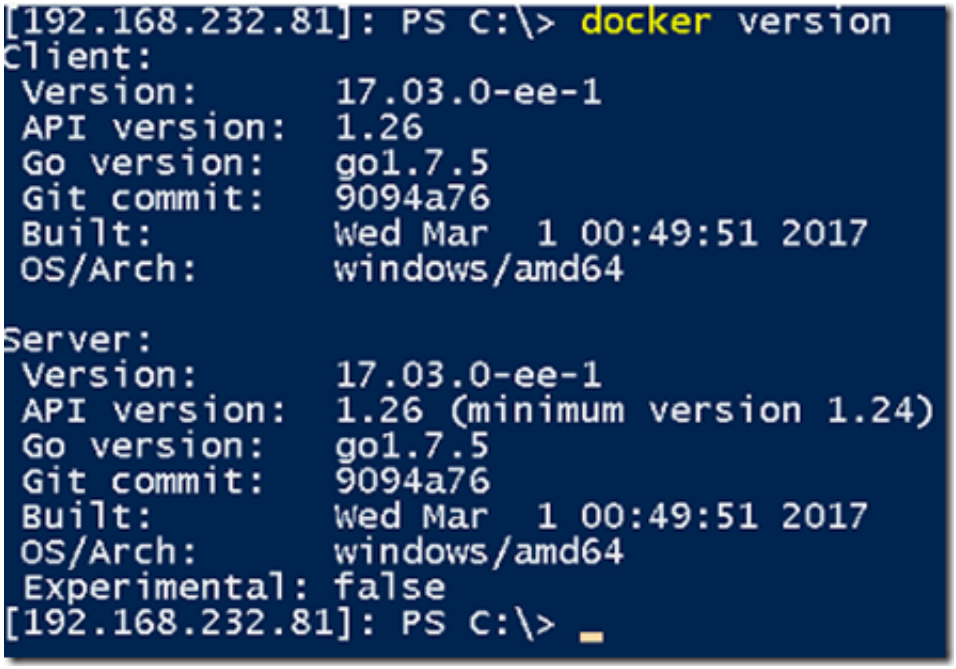
```
[192.168.232.81]: PS C:\> Get-Service docker

Status   Name               DisplayName
------   ----               -----------
Running  Docker             Docker

[192.168.232.81]: PS C:\> _
```

(https://www.assistanz.com/wp-content/uploads/2017/03/image-129.png)

- If service is in stopped state, use **start-service docker** to start the docker service.

- To check the docker version, execute the below command.

docker version



(https://www.assistanz.com/wp-content/uploads/2017/03/image-130.png)

Video