

Installing Docker in Nano Server

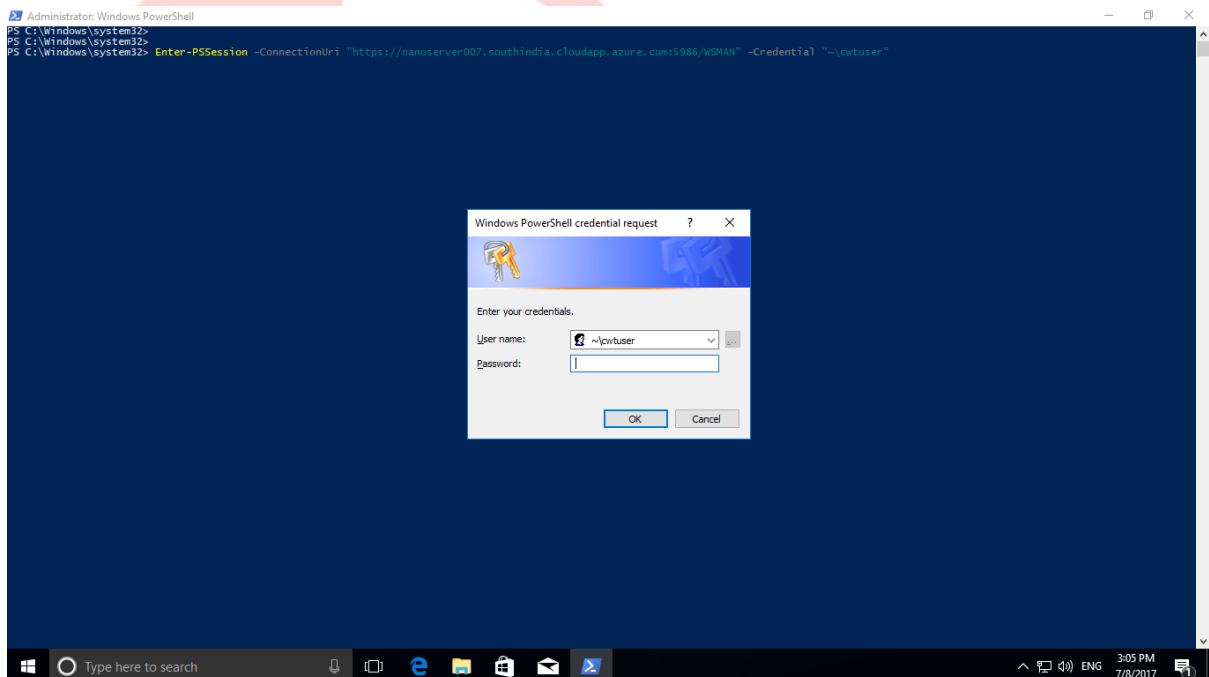
This is about the installation of the Docker in the Nano Server VM which has been created previously.

Step 1: Connecting to Nano Server using PowerShell

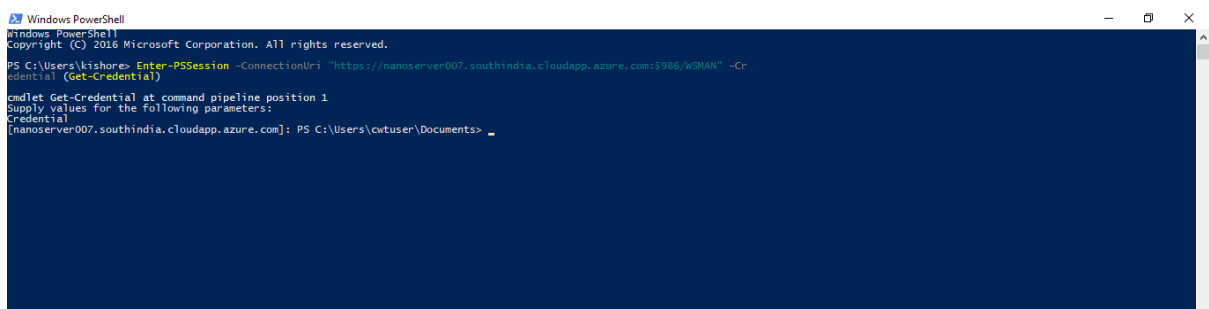
- Open PowerShell with administrator privileges. Run the following code to connect with the Nano Server.

```
Enter-PSSession -ConnectionUri "https://nanoserver007.southindia.cloudapp.azure.com:5986/WSMAN" -Credential (Get-Credential)
```

- This will ask you for the user name and password of the Nano Server VM. Enter them and login.



- Once after logging in, we will be allowed to access the Nano Server using PowerShell. You will find some change like this.

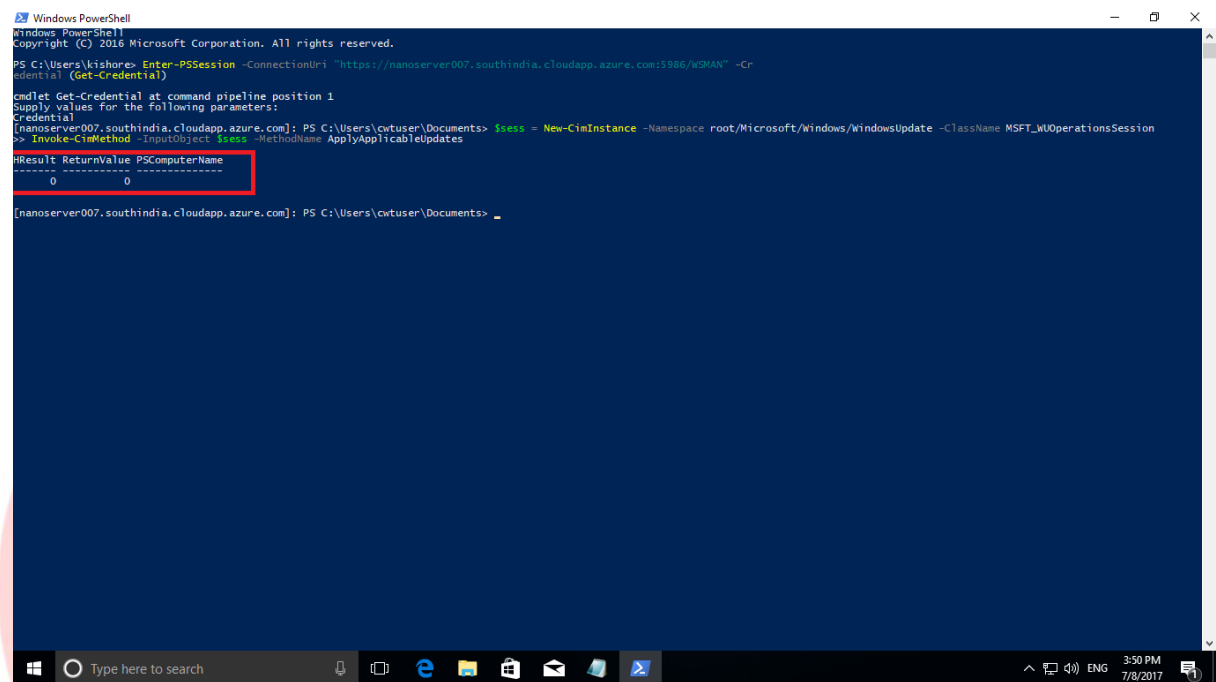


Step 2: Checking Windows Updates for Nano Server

- It is necessary to update the VM before installing the Docker. Hence, we have to update the windows before installing Docker. For this run the set of commands.

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

```
Invoke-CimMethod -InputObject $sess -MethodName ApplyApplicableUpdates
```



```
Windows PowerShell  
Copyright (C) 2016 Microsoft Corporation. All rights reserved.  
  
PS C:\Users\kishore> Enter-PSSession -ConnectionUri "https://nanoserver007.southindia.cloudapp.azure.com:5986/WSMAN" -Cr  
edential (Get-Credential)  
cmdlet Get-Credential at command pipeline position 1  
Supply values for the following parameters:  
Credential  
[nanoserver007.southindia.cloudapp.azure.com]: PS C:\Users\cwtuser\Documents> $sess = New-CimInstance -Namespace root/Microsoft/Windows/WindowsUpdate -ClassName MSFT_WUOperationsSession  
> Invoke-CimMethod -InputObject $sess -MethodName ApplyApplicableUpdates  
Result: ReturnValue PSComputerName  
-----  
0  
[nanoserver007.southindia.cloudapp.azure.com]: PS C:\Users\cwtuser\Documents>
```

- This will take some time to finish updates. You have to wait for few minutes to get the updates to finish up. After the updates are done, we need to restart the server. Run the following command after the updates are done.

```
Restart-Computer
```

- After restarting the Nano Server, again connect back to the VM and login with the credentials.

Step 3: Installing Docker

- After logging into the VM, install the docker service using the following command.

```
Install-Module -Name DockerMsftProvider -Repository PSGallery -Force
```

```
Invoke-Command -InputObject $sess -Methodname ApplyApplicaterepoates
Result ReturnValue PSComputerName
-----
0 0

[nanoserver007.southindia.cloudapp.azure.com]: PS C:\Users\cwtuser\Documents> Restart-Computer
[nanoserver007.southindia.cloudapp.azure.com]: PS C:\Users\cwtuser\Documents> cd
WARNING: The network connection to nanoserver007.southindia.cloudapp.azure.com has been interrupted. Attempting to reconnect for up to 4 minutes...
WARNING: Attempting to reconnect to nanoserver007.southindia.cloudapp.azure.com ...
Processing data from remote server nanoserver007.southindia.cloudapp.azure.com failed with the following error message: The request for the Windows Remote Shell with ShellId EB029EEE-6108-4184-8E44-86775A94472A failed because the shell was not found on the server. Possible causes are: the specified ShellId is incorrect or the shell no longer exists on the server. Provide the correct ShellId or create a new shell and retry the operation. For more information, see the about_Remote_Troubleshooting Help topic.
PS C:\Users\cwtuser\Documents> Enter-PSsession -ConnectionUri https://nanoserver007.southindia.cloudapp.azure.com/550/WSMAN -Credential (Get-Credential)
cmdlet Get-Credential at command pipeline position 1
Supply values for the following prompt:
Credential
[nanoserver007.southindia.cloudapp.azure.com]: PS C:\Users\cwtuser\Documents> 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. The NuGet provider must be available in 'C:\Program
Files\PackageManagement\ProviderAssemblies' or 'C:\Users\cwtuser\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
[nanoserver007.southindia.cloudapp.azure.com]: PS C:\Users\cwtuser\Documents>
```

- Now install the docker package from the gallery which we have installed now.

Install-Package -Name docker -Providername DockerMsftProvider -Verbose

- Once the installation gets done, restart your Server VM by running command

Restart-Computer -Force

Step 4: Starting Docker

- Now check whether Docker is running by using the command

Get-Service docker

- If it doesn't run, execute the following command.

Start-Service docker

- Now execute the command

docker version

```
Administrator: Windows PowerShell
Windows PowerShell
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PS C:\Users\CWTUSER> Get-Service docker

Status Name DisplayName
-----
Running Docker docker

PS C:\Users\CWTUSER> Start-Service docker
PS C:\Users\CWTUSER> docker version

Client:
Version: 17.03.1-ee-3
API version: 1.27
Go version: go1.7.5
Git commit: 3fcee33
Built: Thu Mar 30 19:31:22 2017
OS/Arch: windows/amd64

Server:
Version: 17.03.1-ee-3
API version: 1.27 (minimum version 1.24)
Go version: go1.7.5
Git commit: 3fcee33
Built: Thu Mar 30 19:31:22 2017
OS/Arch: windows/amd64
Experimental: false
PS C:\Users\CWTUSER>
```

Finally, the Docker have been successfully installed in the Nano Server VM.

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