Configuring Nano Server for Remote Connections

Objective:

Here we are going to connect with the Docker engine remotely using the PowerShell. For this we can either use our local machine or a VM. Before we proceed further, make sure that your Nano Server is up and running.

Step 1: Downloading the Docker Daemon and extracting them

- Creation of a variable that references the zip file which is in the official docker website. This zip file will have the docker engine data that is require to create the client and server. Open the **PowerShell** with administrator privileges and run the below given command. This will assign the link to that variable named **package.**

```
$package = "https://download.docker.com/components/engine/windows-
server/cs-1.12/docker.zip"
```

- The next step is to invoke a web request to get for the link that has been referenced in the variable called **package.** Then the file will be stored in a temporary storage by getting downloaded from the docker site. For this we have to run the following command.

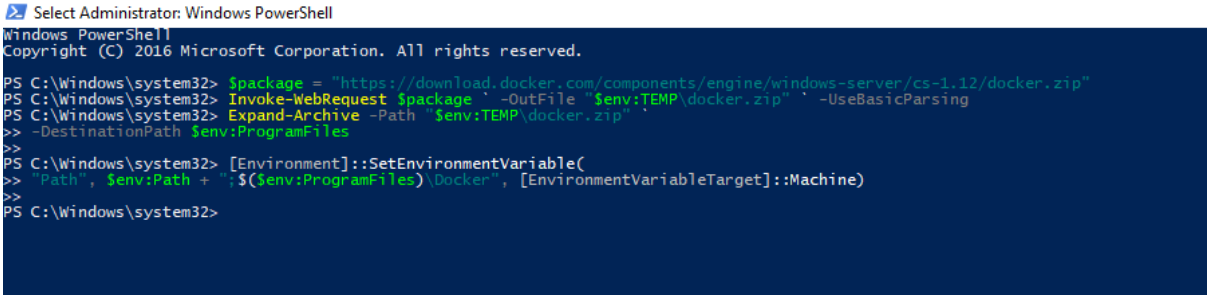
```
Invoke-WebRequest $package ` -OutFile "$env:TEMP\docker.zip" ` -UseBasicParsing
```

- Now we shall expand the downloaded zip file to the programming files of our machine. For this run,

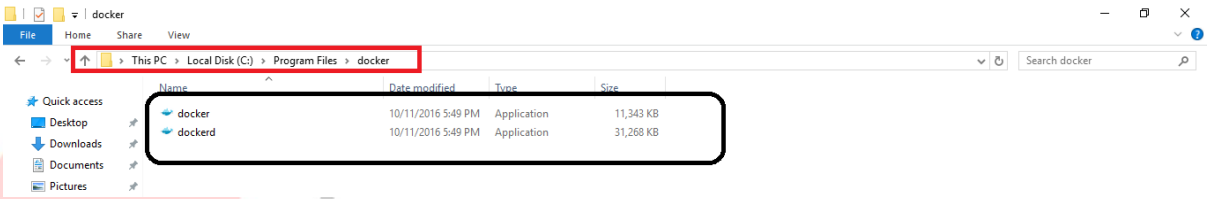
```
Expand-Archive -Path "$env:TEMP\docker.zip" `
-DestinationPath $env:ProgramFiles
```

- The final step is to create an environment variable that will add the Docker directory to the path daemon. Run the command,

```
[Environment]::SetEnvironmentVariable(
"Path", $env:Path + ";$($env:ProgramFiles)\Docker",
[EnvironmentVariableTarget]::Machine)
```



- Now we have finished installing the **Docker (client)** and **Dcokerd (engine)** in programming files folder. Check for these in the programming files inside the Docker folder.



Step 2: Creating Environment variable to connect Docker easily

- Here the **Docker** is the client and the **Dockerd** is the engine. Now we are going to configure an environment variable that will store the DNS name of our Nano Server and connect with it. For this run the command,

[Environment]::SetEnvironmentVariable("DOCKER_HOST","nanoserver007.southindia.cloudapp.azure.com",[EnvironmentVariableTarget]::Machine)

Note: Replace the DNS name with your Nano Server DNS or IP

- Now open up the new PowerShell console and run the command **docker version** . This will show you the client(**Docker**) and engine(**Dockerd**). This means we have created a connectin in between these two services which we have actually downloaded from the docker website.