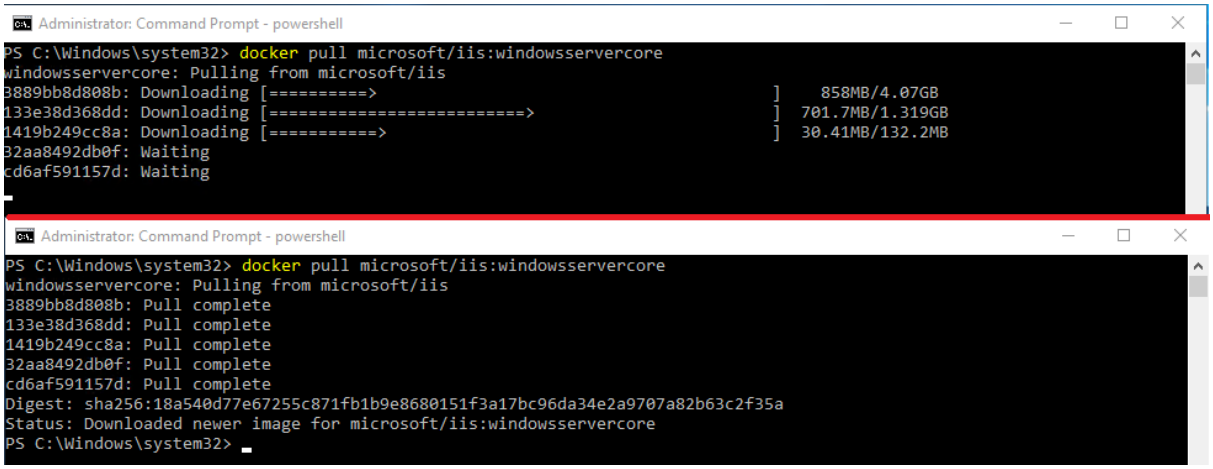
Containers

- **Create and Prepare Containers**
    1. Create a VM that supports Containers
        - Run this on Bash
    2. Connect to the VM.
    3. Open a PowerShell console and run Dockers.ps1
    4. When asked, choose option for windows containers and click download
    5. When prompted, click restart.
    6. Connect to the VM
    7. Open a command prompt
    8. Run this command on Command Prompt

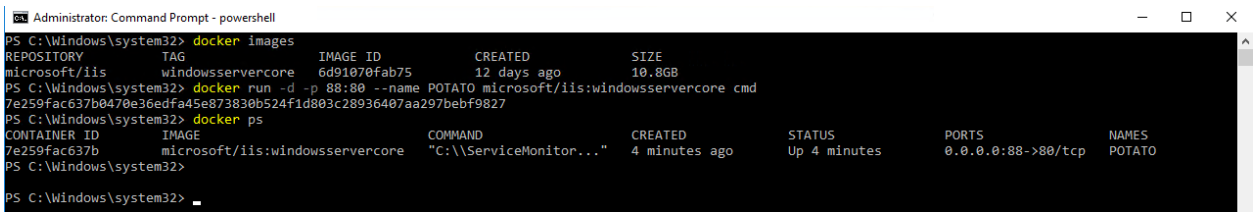
        docker pull microsoft/iis:windowsservercore



- **Start Images**
    1. Run the following command to see docker images

        Docker images
    2. To create a docker app run the following command

        docker run -d -p 81:80 --name <AnyName>
        microsoft/iis:windowsservercore

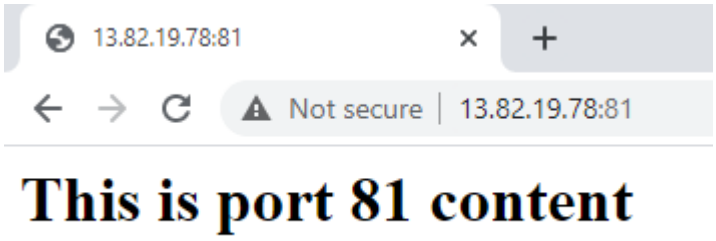


- **Manage Content**

1. For accessing Potato command line type
   docker exec -it Potato powershell

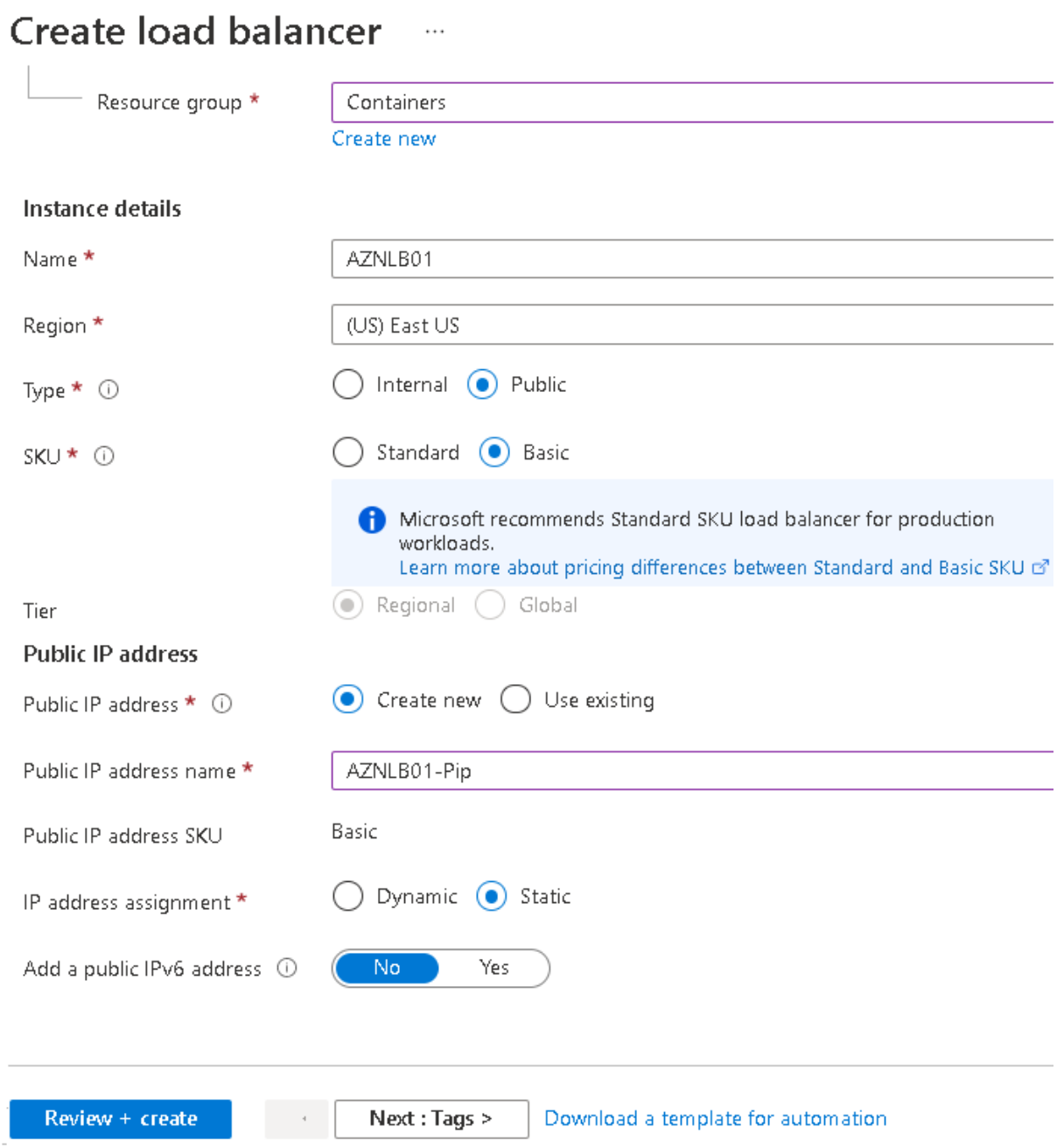
2. To create an index html file with a simple content, type
   echo "<html><body><h1>This is port 81 content</h1></body></html>" > "c:\inetpub\wwwroot\index.html"

3. Check for the web page content



- **Create an NLB**

1. New > Networking > Load Balancer>
   a. Resource Group, Existing **Containers**
   b. Name **AZNLB01**
   c. Region **East US**
   d. Type **Public**
   e. SKU **Basic**
   f. Public Ip New, static, **AZNLB01-Pip**



- **Configure NLB**

1. Navigate to Inbound NAT rules
2. Click Add
    a. Name **Rule01**
    b. FrontEndIp **LoadBalancerFrontEndIp**
    c. Service **Http**
    d. Port 80
    e. Target VM **Container**
    f. Network Ip Configuration **10.206.1.4**
    g. Port Mapping **Custom**
    h. Target Point **81**

Rule01 ...

An inbound NAT rule forwards incoming traffic sent to a selected IP address and port combination to a specific virtual machine.

Name	Rule01
Frontend IP address *	LoadBalancerFrontEnd (52.179.97.167)
IP Version	IPv4
Service *	HTTP
Protocol	TCP / UDP
Idle timeout (minutes)	4 (Max: 30)
Port *	80
Target virtual machine	Container (Containers)
Network IP configuration	ipconfigContainer (10.206.1.4)
Port mapping	Default / Custom
Floating IP	Disabled / Enabled
Target port *	81

- Access via IIS Manager

1. Open a command prompt with admin permissions
2. Run **PowerShell** to turn that window into *a PowerShell prompt*
3. Run the following command to access to Docker image PowerShell command line

   docker exec -it Potato powershell
4. Run the following command to install Web Service Management tools

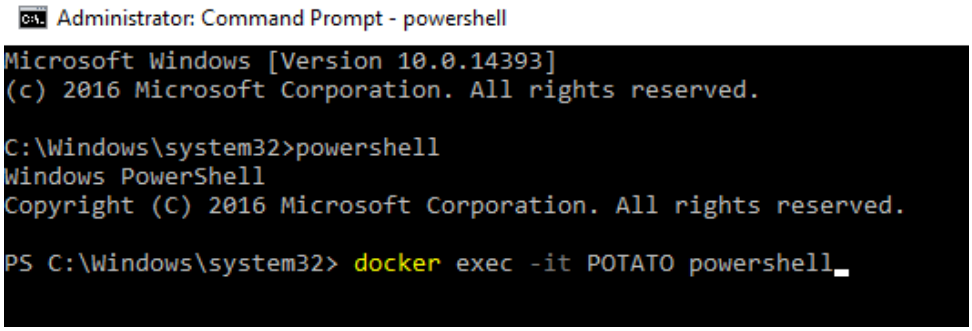
   Install-WindowsFeature -Name Web-Mgmt-Service
5. Run the following command to configure registry settings of the Docker image

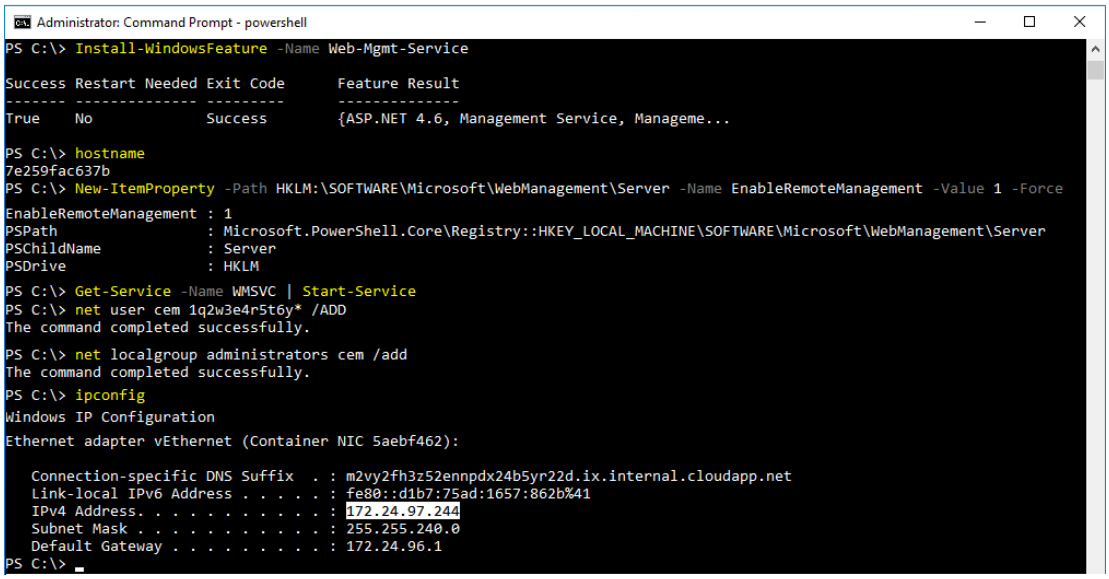
   New-ItemProperty -Path HKLM:\SOFTWARE\Microsoft\WebManagement\Server -Name EnableRemoteManagement -Value 1 -Force
6. Run the following command to start the service

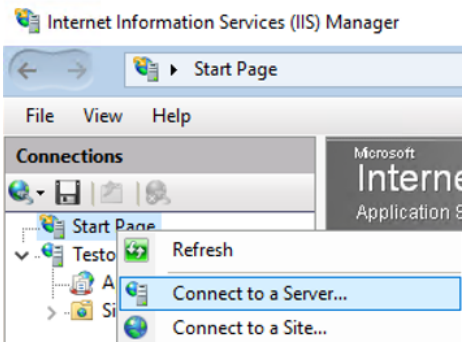
   Get-Service -Name WMSVC | Start-Service
7. Run the following command to add a user and assign a password to that user

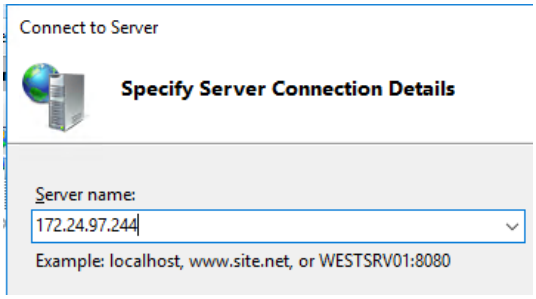
   net user <your UserName Here> <Password here> /ADD
8. Run the following command to assign admin permissions to the user you created

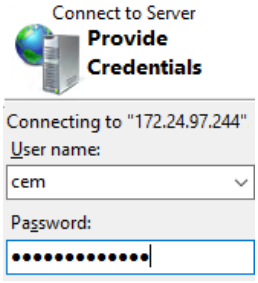
   net localgroup administrators <user on the previous line> / ADD
9. Run ipconfig to get the Docker image ip Address. Copy ip address
10. Open IIS manager. Right click and connect to another server
11. Paste the container ip address and click Next
12. Provide the user name and password you created on step 7 and click Next
13. Click YES for the Certificate prompt
14. Confirm the ip address and click Next

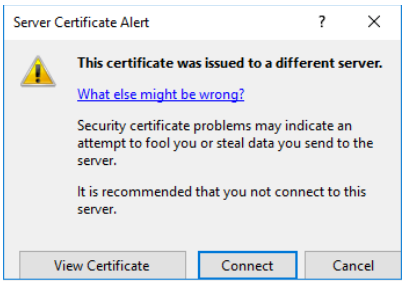


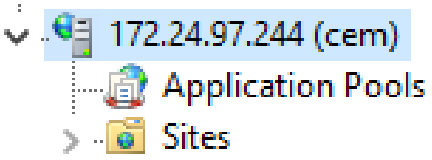

Administrator: Command Prompt - powershell
PS C:\> Install-WindowsFeature -Name Web-Mgmt-Service
Success Restart Needed Exit Code Feature Result
True No Success {ASP.NET 4.6, Management Service, Manageme...
PS C:\> hostname
7e259fac637b
PS C:\> New-ItemProperty -Path HKLM:\SOFTWARE\Microsoft\WebManagement\Server -Name EnableRemoteManagement -Value 1 -Force
EnableRemoteManagement : 1
PSPath : Microsoft.PowerShell.Core\Registry::HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\WebManagement\Server
PSChildName : Server
PSDrive : HKLM
PS C:\> Get-Service -Name WMSVC | Start-Service
PS C:\> net user cem 1q2w3e4r5t6y* /ADD
The command completed successfully.
PS C:\> net localgroup administrators cem /add
The command completed successfully.
PS C:\> ipconfig
Windows IP Configuration
Ethernet adapter vEthernet (Container NIC 5aebf462):
Connection-specific DNS Suffix . : m2vy2fh3z52ennpdx24b5yr22d.ix.internal.cloudapp.net
Link-local IPv6 Address . . . . . : fe80::d1b7:75ad:1657:862b%41
IPv4 Address. . . . . : 172.24.97.244
Subnet Mask . . . . . : 255.255.240.0
Default Gateway . . . . . : 172.24.96.1
PS C:\>


Internet Information Services (IIS) Manager
Start Page
File View Help
Connections
Refresh
Connect to a Server...
Connect to a Site...


Connect to Server
Specify Server Connection Details
Server name:
172.24.97.244
Example: localhost, www.site.net, or WESTSRV01:8080


Connect to Server
Provide Credentials
Connecting to "172.24.97.244"
User name:
cem
Password:


Server Certificate Alert
This certificate was issued to a different server.
What else might be wrong?
Security certificate problems may indicate an attempt to fool you or steal data you send to the server.
It is recommended that you not connect to this server.
View Certificate
Connect
Cancel


172.24.97.244 (cem)
Application Pools
Sites