



Working with Containers and Docker in Windows 2016 TP5 – part 1

The new release comes with a lot of new cool things for Windows containers and Docker!

To start testing this new preview, you have two solutions:

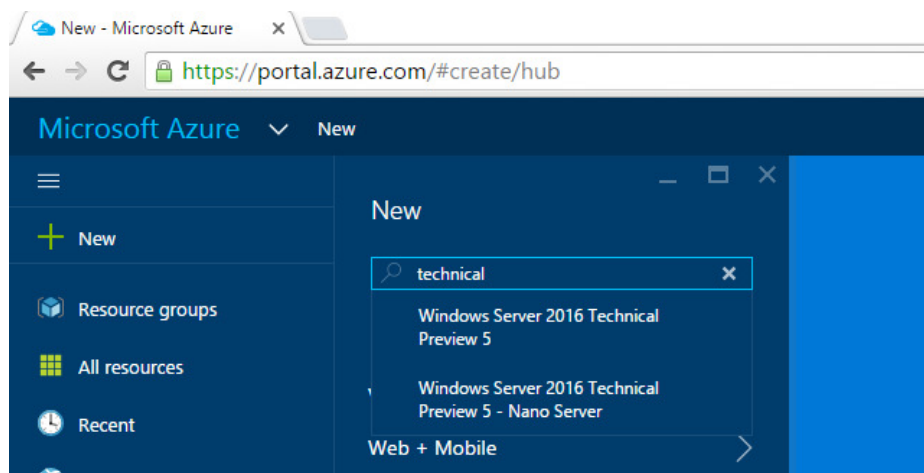
- Download it, and run it where you want.
- Deploy a new VM in Azure.

This document describes the second option.

Task 1: Login to the Azure portal.

Step 1: Start your web browser, enter following URL: <https://portal.azure.com>, hit Enter.

Step2: Log in with your account.

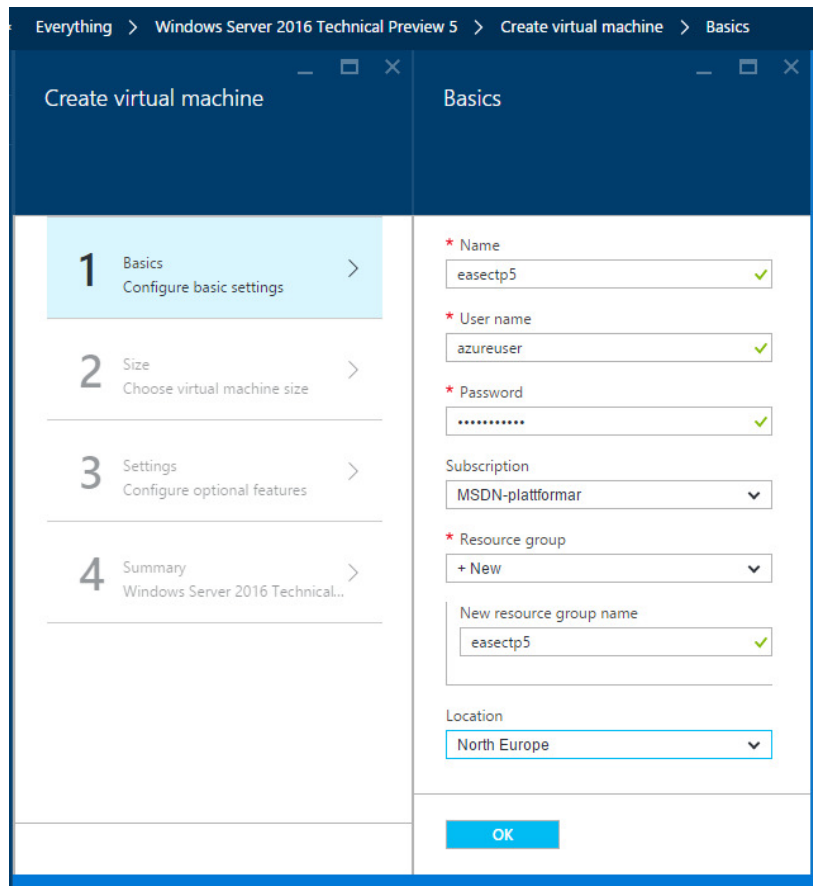


Task 2: Create a new VM with Windows Server 2016 Technical Preview 5.

Step 1: Click on New, enter technical in the search box.

Step 2: Click on Windows Server 2016 Technical Preview 5.

Step 3: Use Resource Manager as the deployment model, click on Create.



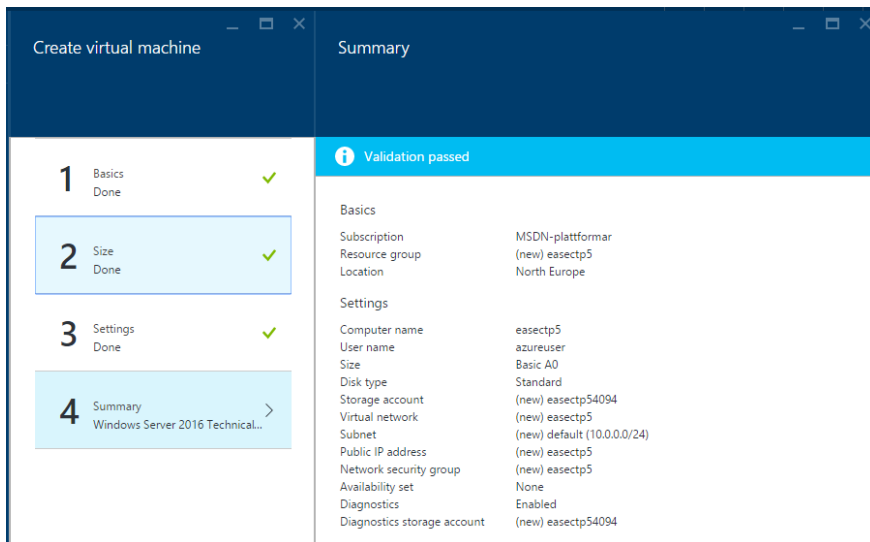
Step 4: Enter your information in the different boxes. Choose your Subscription. Create a new Resource group and give it a meaningful name.

Step 5: Choose location nearest your own location.

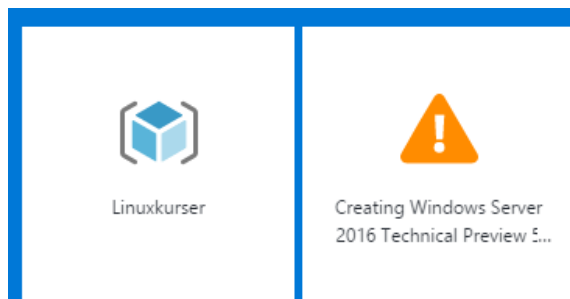
Click OK.

Step 6: Click on alternative View all in Choose a Size, choose your size for the VM. Click on Select.

Step 7: In Settings, choose all the default values. Click OK.

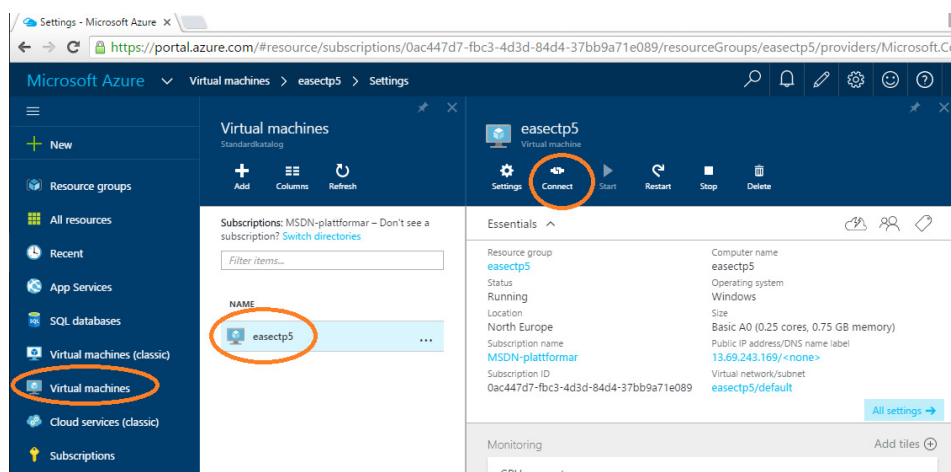


Step 8: Click on OK, on the Summary page.



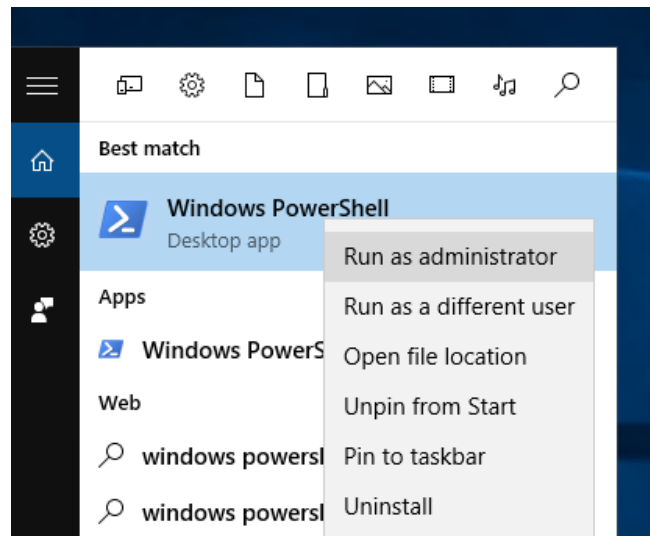
Check the status for the deployment in the portal.

Task 3: Connect to your VM and install Windows Containers feature and Docker for Windows.



Step 1: When your deployment is completed, connect to your new VM, through Virtual Machines.

Step 2: Click on downloaded .rdp-file, log on with the account you used when creating the VM.



Step 3: Start Windows Powershell as an Administrator.

```
Administrator: Windows PowerShell
PS C:\> wget -uri https://aka.ms/tp5/Install-ContainerHost -OutFile C:\Install-ContainerHost.ps1
PS C:\> _
```

Step 4: Run following command:

```
wget -uri https://aka.ms/tp5/Install-ContainerHost -
OutFile C:\Install-ContainerHost.ps1
```

Step 5: Then, just run the following command:

```
powershell.exe -NoProfile C:\Install-
ContainerHost.ps1
```

```
Administrator: Windows PowerShell
PS C:\> wget -uri https://aka.ms/tp5/Install-ContainerHost -OutFile C:\Install-ContainerHost.ps1
PS C:\> powershell.exe -NoProfile C:\Install-ContainerHost.ps1

Start Installation...
24%
[ooooooooooooooooooooooooooooo]
```

This command could take some time, it will:

- Installing the Windows Containers feature
- Configure the firewall
- Downloading and Installing Docker for Windows
- Downloading base images for Windows Server Containers
- Configuring the host

After the installation of the Windows Containers feature the virtual machine will restart. Once restarted, you can reopen your session using RDP and restart the PowerShell script.

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

PS C:\Users\azureuser> powershell.exe -NoProfile C:\Install-ContainerHost.ps1
Querying status of Windows feature: Containers...
Feature Containers is already enabled.
SUCCESS: The scheduled task "ContainerBootstrap" was successfully deleted.
Configuring ICMP firewall rules for containers...
Installing Docker...
Installing Docker daemon...
Creating Docker program data...
This script uses a third party tool: NSSM. For more information, see https://nssm.cc/usage
Downloading NSSM...
```

Step 6: When the script has completed, write the following command: **docker info**, and press Enter.

```
Administrator: Windows PowerShell
PS C:\Users\azureuser> docker info
Containers: 0
  Running: 0
  Paused: 0
  Stopped: 0
Images: 0
Server Version: 1.12.0-dev
Storage Driver: windowsfilter
  Windows:
Logging Driver: json-file
Plugins:
  Volume: local
  Network: nat null
Kernel Version: 10.0 14300 (14300.1010.amd64fre.rs1_release_svc.160415-2143)
Operating System: Windows Server 2016 Datacenter Technical Preview 5
OSType: windows
Architecture: x86_64
CPUs: 1
Total Memory: 767.6 MiB
Name: easectp5
ID: 3DRZ:EE4H:LDXU:6N2N:H XOZ:5O2A:FZOL:H QGK:5IRA:MBNB:SUOU:CBU7
Docker Root Dir: C:\ProgramData\docker
Debug Mode (client): false
Debug Mode (server): false
Registry: https://index.docker.io/v1/
Insecure Registries:
  127.0.0.0/8
PS C:\Users\azureuser>
```

Step 7: Restart the VM.