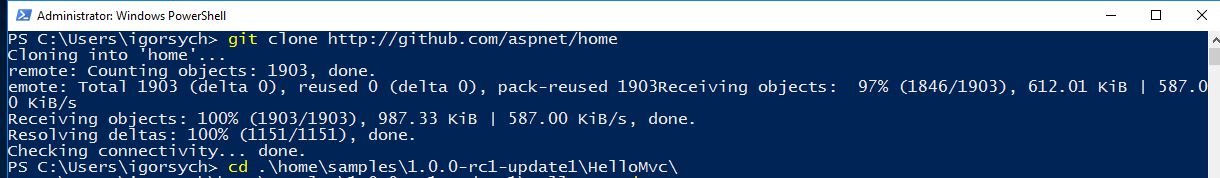
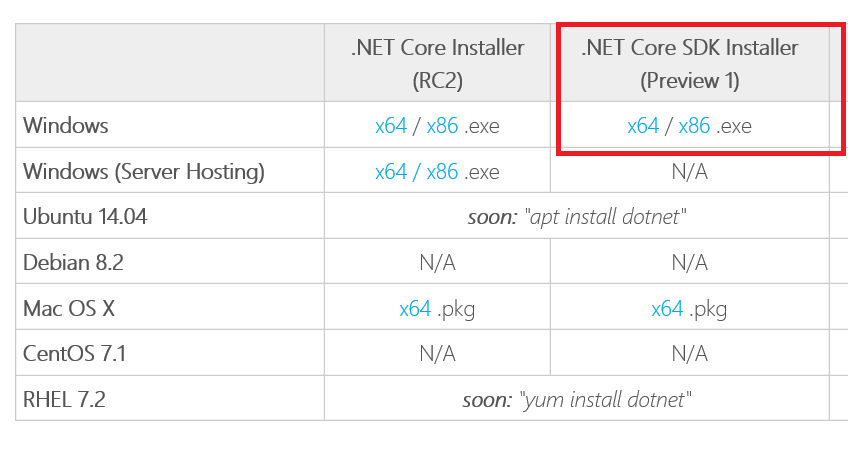
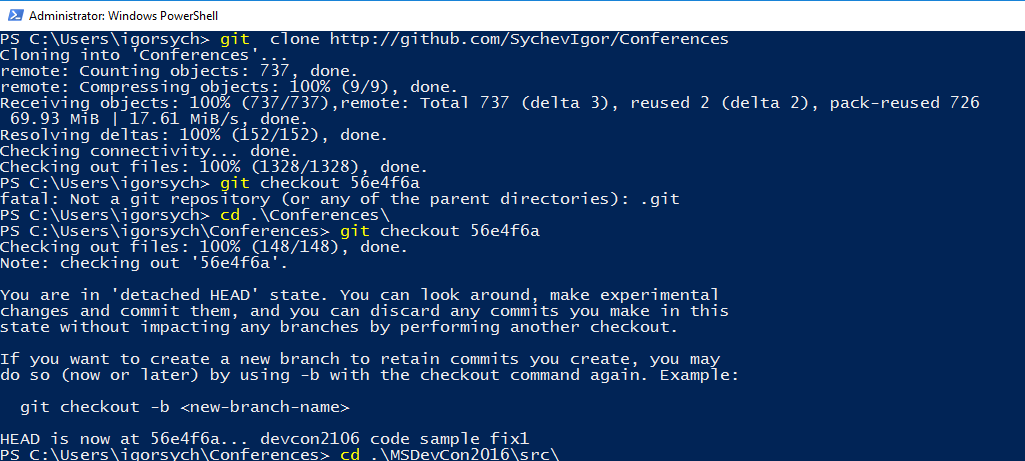
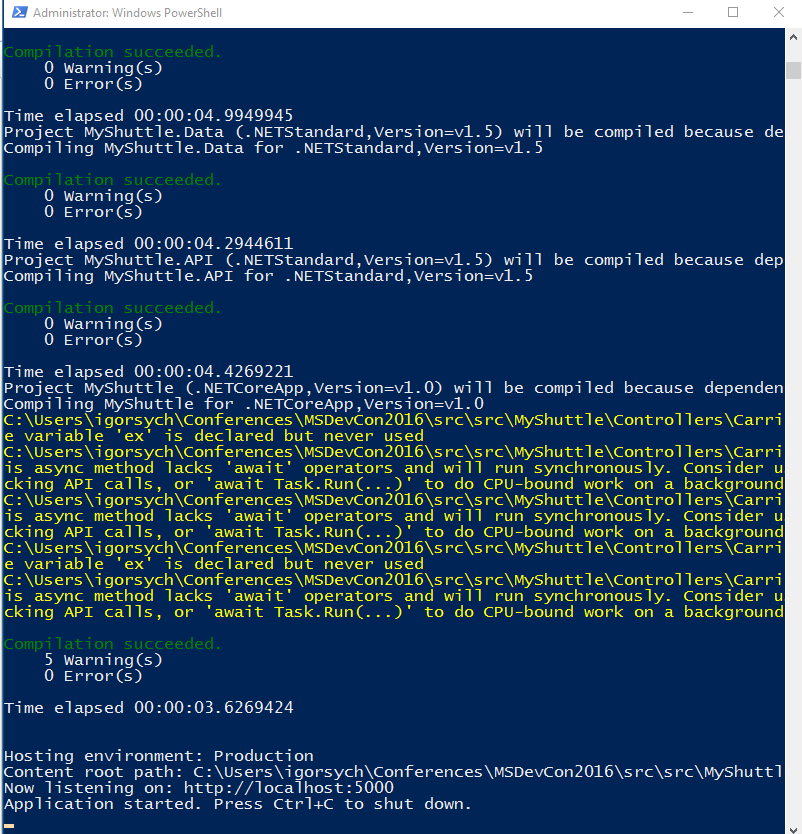
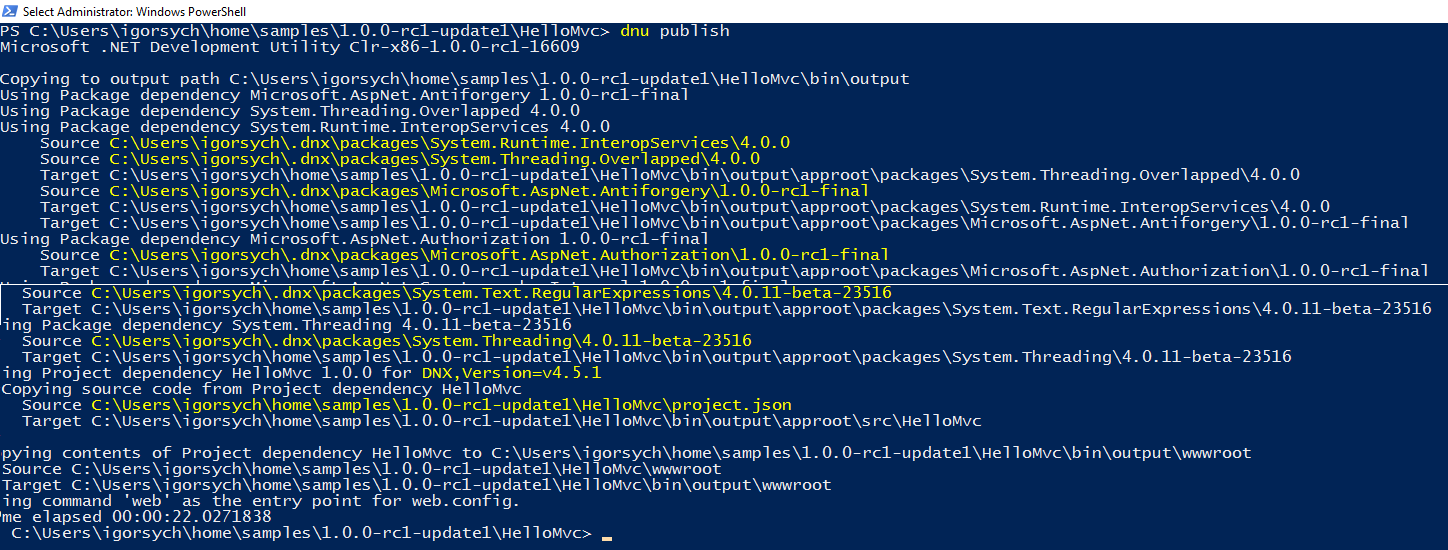
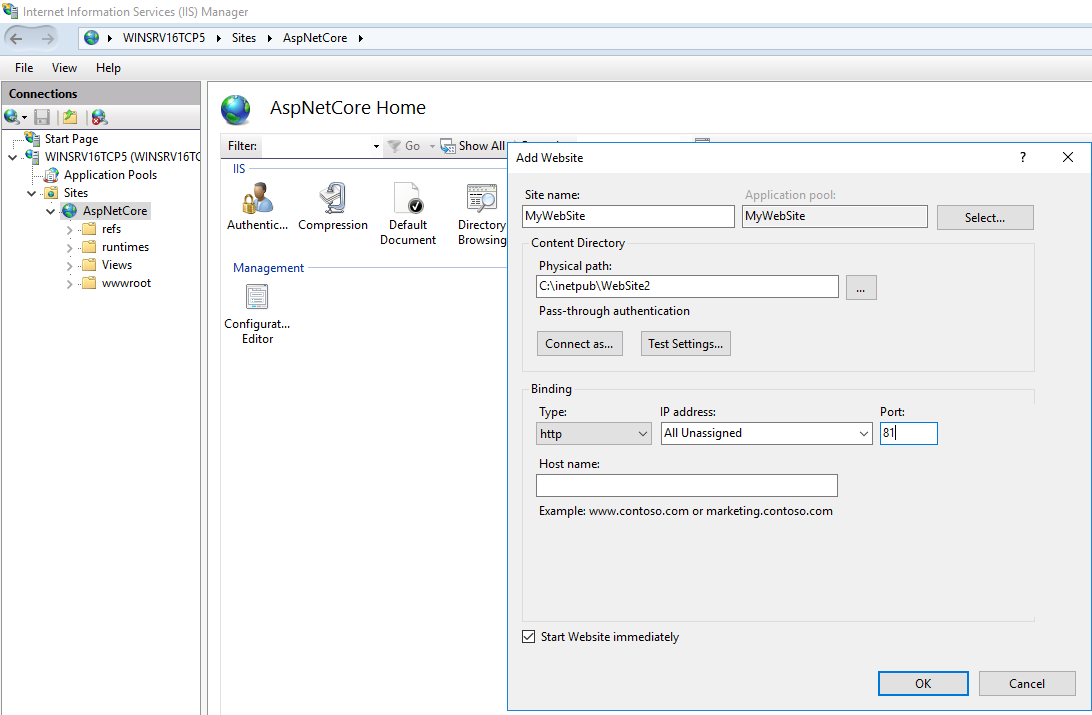
**Для выполнения гайда вам понадобится либо Windows Server 2016 Preview5 либо Windows 10 Preview.**

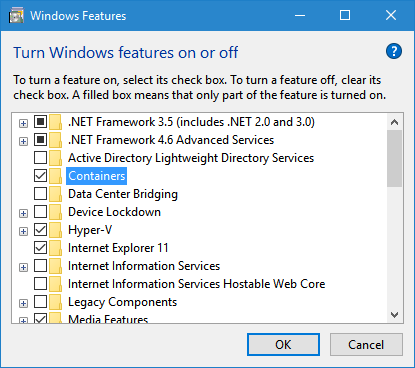
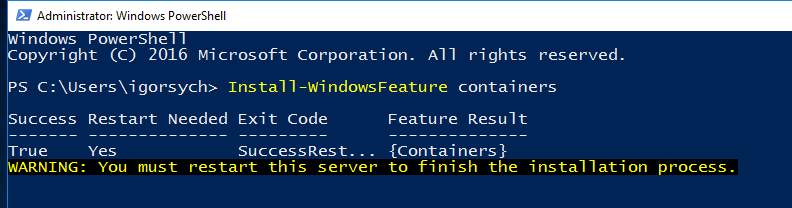
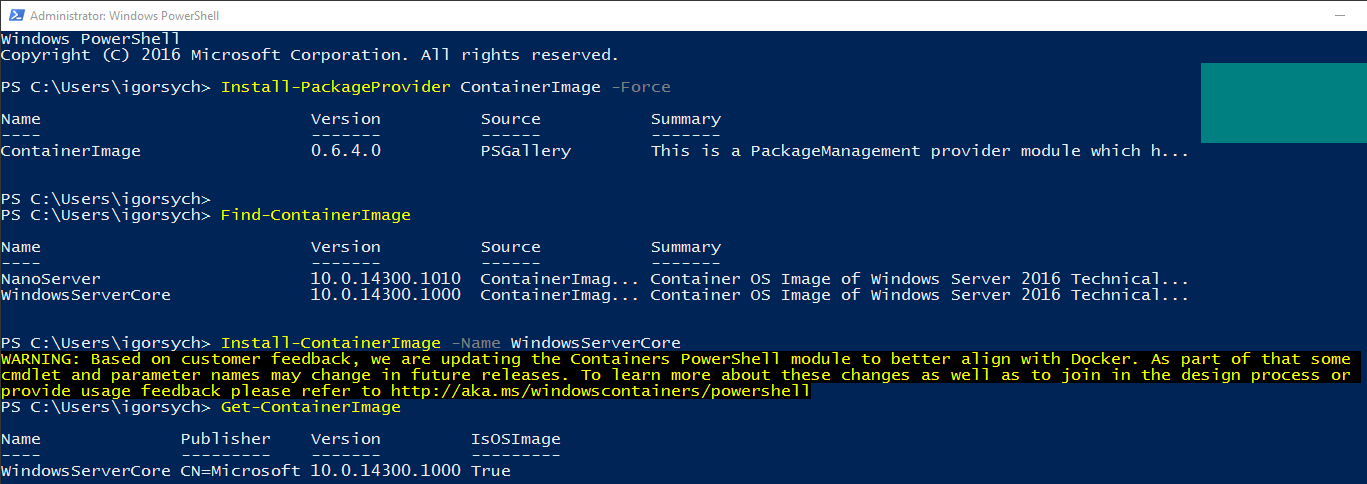
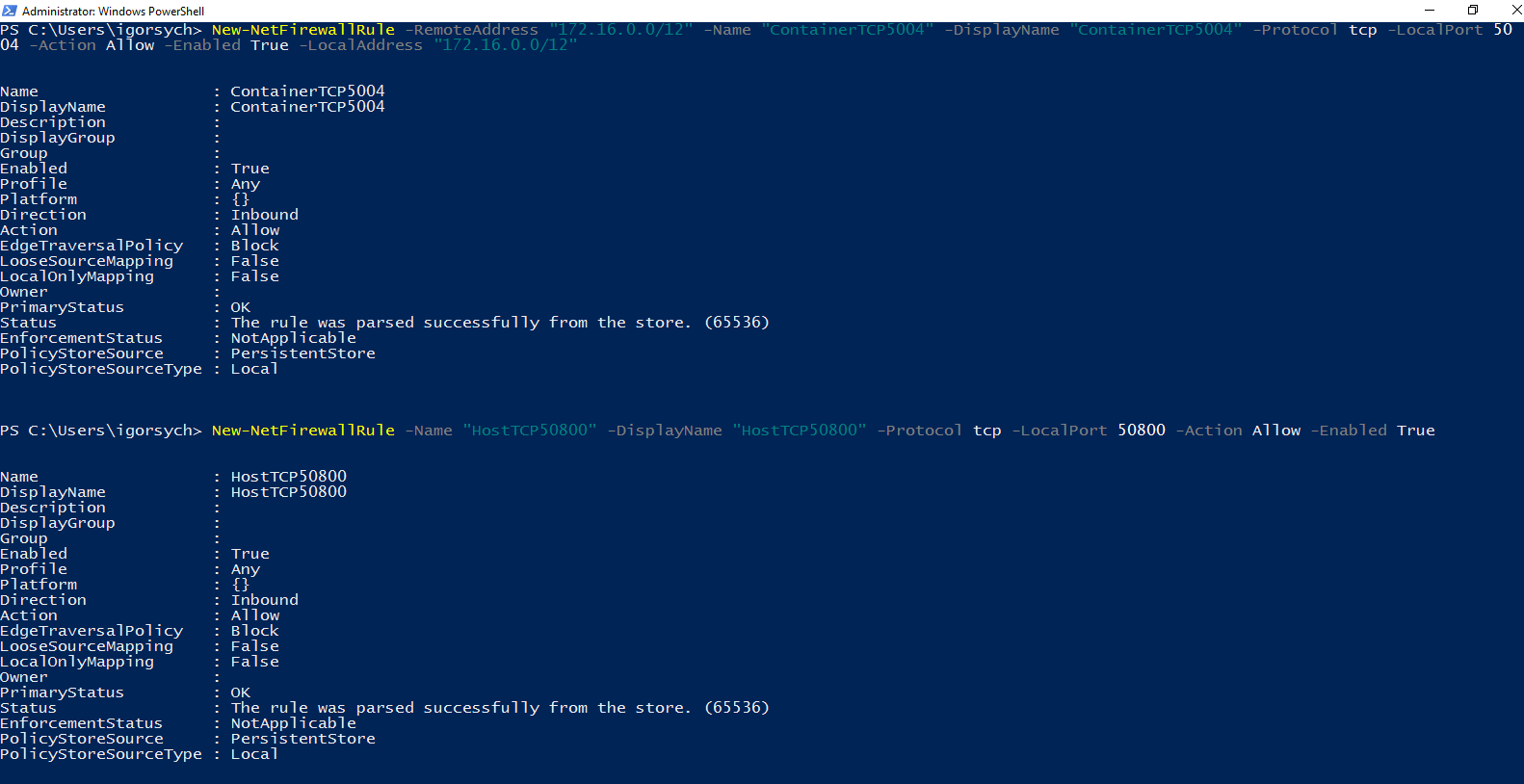
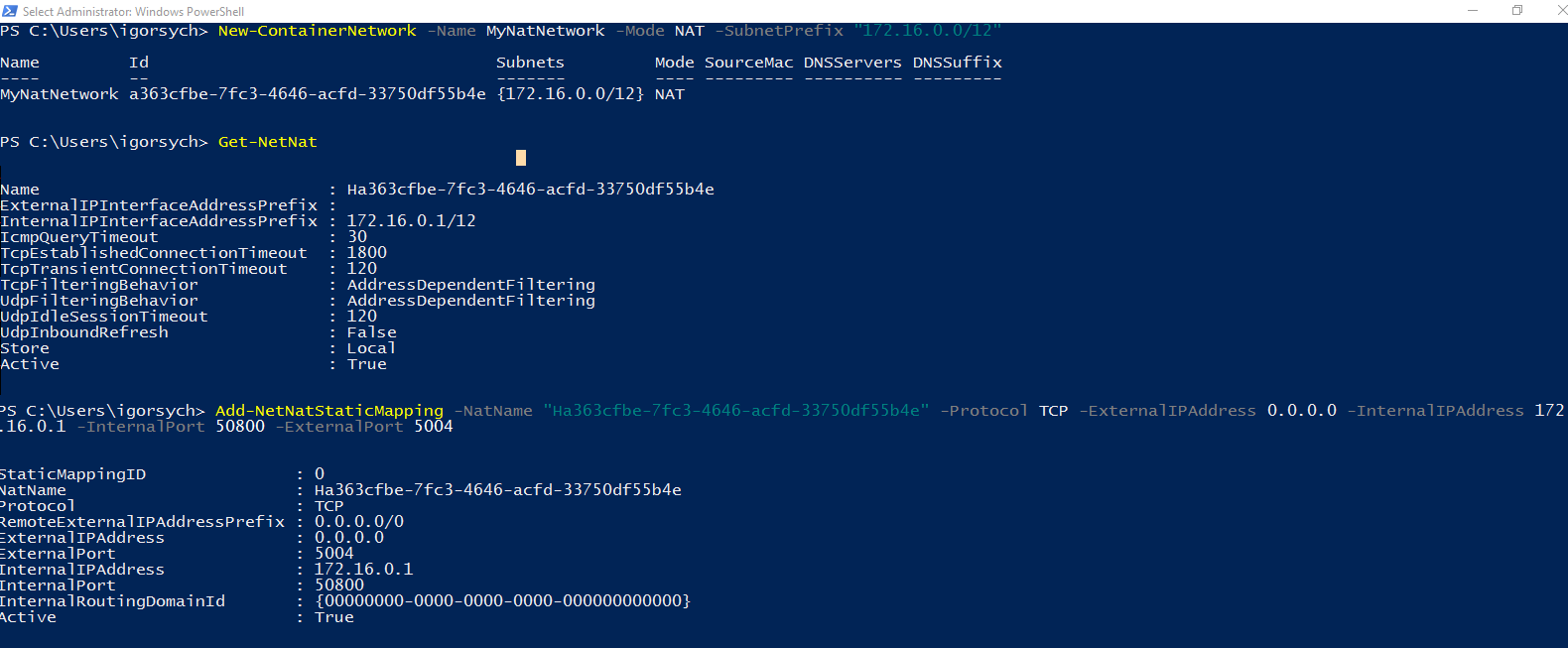
**Exercise 1**. Run Asp.Net Core on Host (without visual studio)

1. install chrome (optional step- edge is not working under admin account on srv2016 ctp5 by default)

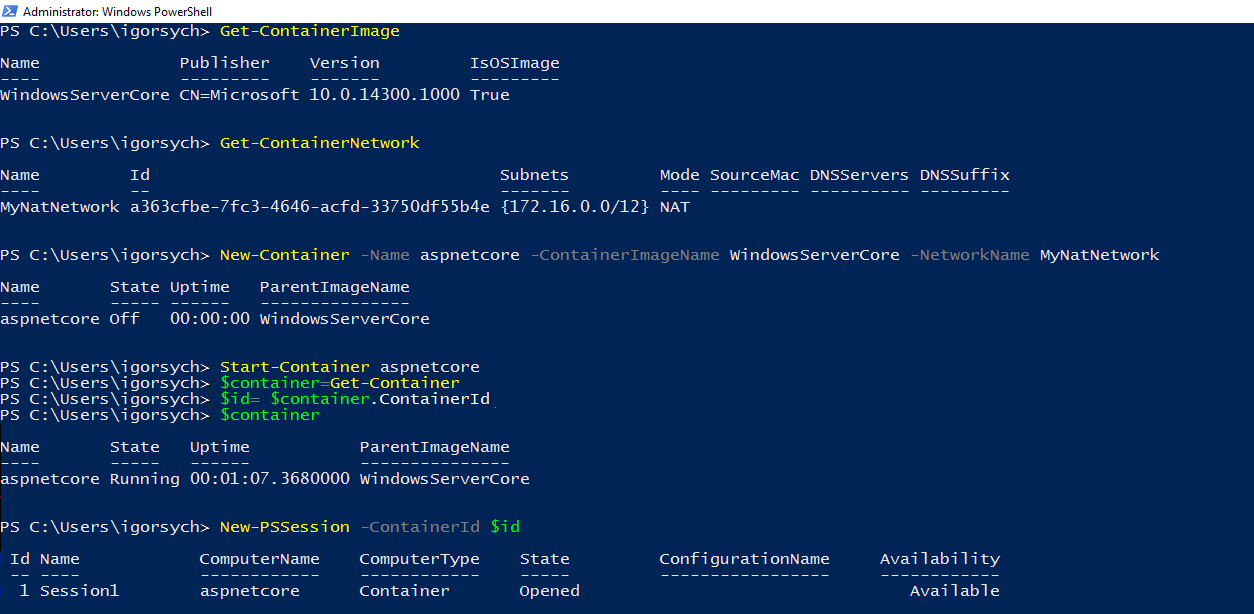
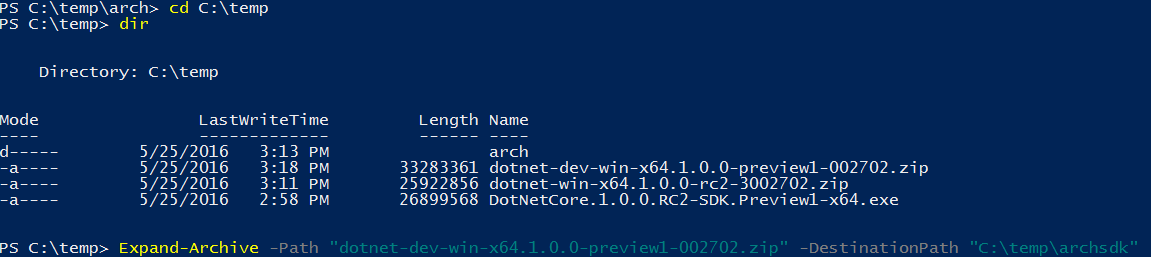
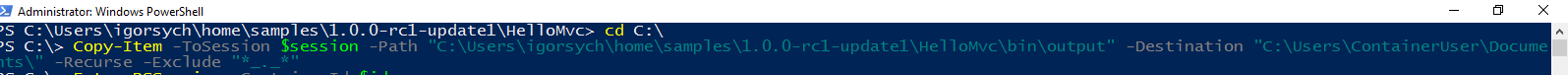
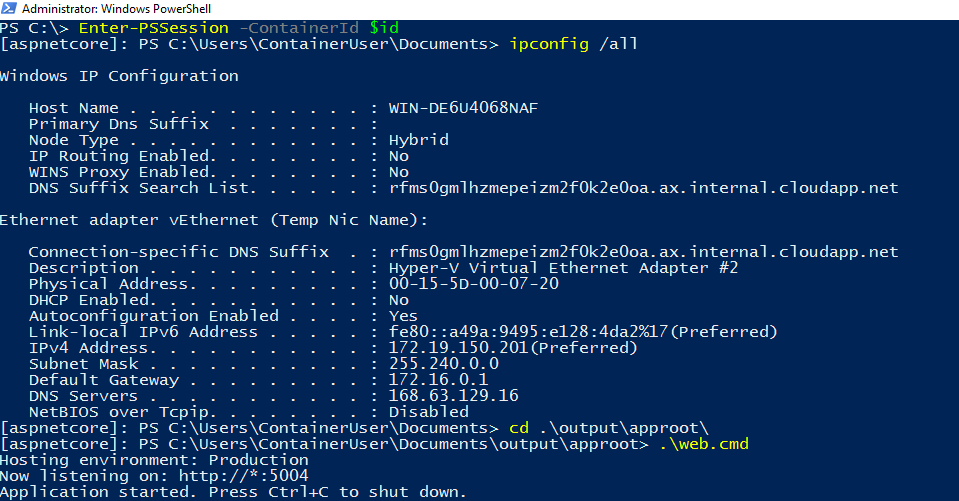
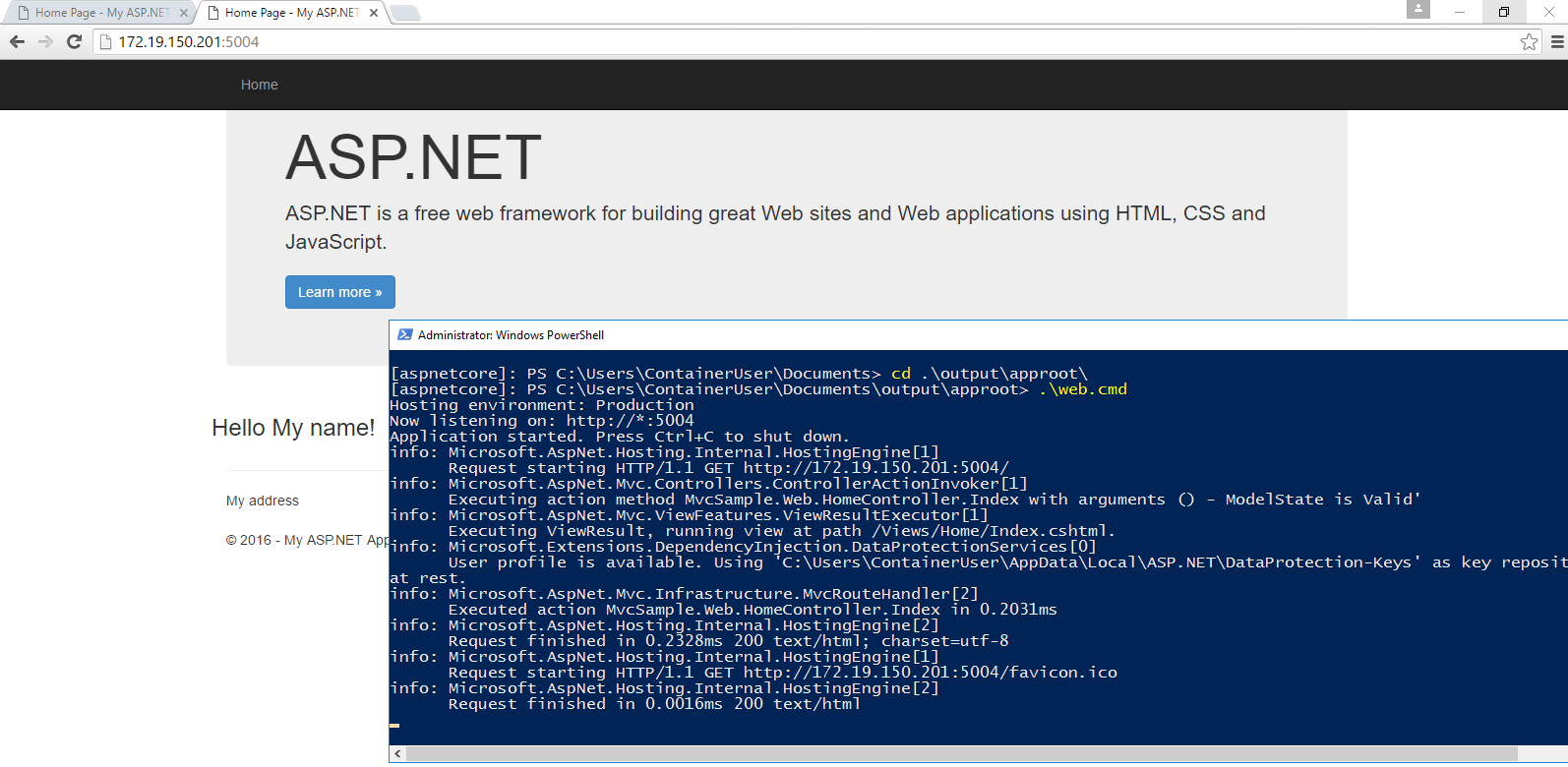


1. install .net core and .net sdk <https://www.microsoft.com/net/download> 
2. install git <https://git-scm.com/download/win>
3. Нужно выбрать папку куда делать следующий шаг для клонирования репозитория.
4. Clone any asp.net project from github
5. For example, “git clone <https://github.com/SychevIgor/conferences>”
6. 
7. navigate to folder "conferences/tree/devcon2016/MSDevCon2016/src " and restore packages in this folder "dotnet restore"
8. Navigate to MyShuttle folder and execute "dotnet build” to check that everything compiled correctly
9. “Dotnet run” to start an app
10. Open http://localhost:5000 and check that site is working
11. Press Ctrl-C to shut down the web server
12. Publish artifacts "dotnet publish" to folder (если публиковать без параметров, то по умолчанию это будет сделано в текущем каталоге.).
13. Copy build artifacts from artifacts folder to destination folder.
14. Start new app on IIS from this folder
15. Open browser with <http://localhost:yourport>

**Exercise 2. Prepare Host machine**

1. Для клиентской Windows потребуется включить функцию руками – Control Panel – Uninstall a program – Turn Windows features on or off  
   
2. Для Windows Server можно использовать PowerShell:
3. Prepare host machine to containers <https://msdn.microsoft.com/en-us/virtualization/windowscontainers/deployment/deployment>  
     
   Install-PackageProvider ContainerImage -Force
4. Then install ServerCore image. It will take time about 20 minutes to download this image.   
     
   Find-ContainerImage  
     
   Install-ContainerImage -Name WindowsServerCore  
     
   
   1. if you are using servercore- do not install nanoserver image. Because container is a virtualized environment, windows images should share the same core.
   2. NanoServer and ServerCore are not sharing core. (but you can user nano server image with hyperv containers)
5. Configure network nat/firewall
   1. New-NetFirewallRule -RemoteAddress "172.16.0.0/12" -Name "ContainerTCP5004" -DisplayName "ContainerTCP5004" -Protocol tcp -LocalPort 5004 -Action Allow -Enabled True -LocalAddress "172.16.0.0/12"
   2. New-NetFirewallRule -Name "HostTCP50800" -DisplayName "HostTCP50800" -Protocol tcp -LocalPort 50800 -Action Allow -Enabled True
   3. Add-NetNatStaticMapping -NatName "Hb38e9905-d1c3-4ed0-8e67-3a9a35687ef3" -Protocol TCP -ExternalIPAddress 0.0.0.0 -InternalIPAddress 172.16.0.1 -InternalPort 50800 -ExternalPort 5004
6. Instead of NatName, use name from Get-NetNat output

**Exercise 3 Create Container**

1. Create new Container using WindowsServerCore image
2. Connect to container and install .net core 2
   1. Open PS Session to container using Enter-PSSession -containerId $containerId
   2. In the session download .net sdk binaries
      1. $webclient = New-Object System.Net.WebClient
      2. $webclient.DownloadFile("http://download.microsoft.com/download/2/1/0/2107669A-0DF9-4A91-A275-74735D433045/dotnet-dev-win-x64.1.0.0-preview1-002702.zip","C:\temp\dotnet-dev-win-x64.1.0.0-preview1-002702.zip")
   3. Extract archive to a folder “Expand-Archive -Path "dotnet-dev-win-x64.1.0.0-preview1-002702.zip" -DestinationPath "C:\temp\archsdk"”
3. Exit PSSession
4. Copy published version of web app from localhost to container. Command Example:
   1. Copy-Item -ToSession $cs -Path "C:\Users\igorsych\home\samples\1.0.0-rc1-update1\HelloMvc\bin\output" -Destination "C:\Users\ContainerUser\Documents\" -Recurse -Exclude "\*\_.\_\*"
5. Enter in PSSession and run web app
6. Check that site is working in a browser. Get an IP from ipconfig /all output IPv4 address

References

* <https://msdn.microsoft.com/en-us/virtualization/windowscontainers/management/container_networking>
* <https://channel9.msdn.com/Blogs/containers/Quick-Start-Deploying-and-Managing-Windows-Server-Containers-with-PowerShell>
* <https://technet.microsoft.com/en-us/library/dn283352(v=wps.630).aspx>
* <https://msdn.microsoft.com/en-us/virtualization/windowscontainers/management/manage_images>