BUILD .NET IMAGE USING DOCKER


```
Administrator: C:\Windows\System32\cmd.exe                                                    _  □  X
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

D:\>mkdir dotnet-docker

D:\>cd dotnet-docker

D:\dotnet-docker>dotnet new webapp -n myWebApp -o src --no-https
The template "ASP.NET Core Web App" was created successfully.
This template contains technologies from parties other than Microsoft, see https://aka.ms/aspnetcore/7.0-third-party-notices for details.

Processing post-creation actions...
Restoring D:\dotnet-docker\src\myWebApp.csproj:
  Determining projects to restore...
  Restored D:\dotnet-docker\src\myWebApp.csproj (in 160 ms).
Restore succeeded.


D:\dotnet-docker>cd /path/to/dotnet-docker/src
The system cannot find the path specified.

D:\dotnet-docker>cd src

D:\dotnet-docker\src>dotnet run --urls http://localhost:5000
Building...
info: Microsoft.Hosting.Lifetime[14]
      Now listening on: http://localhost:5000
info: Microsoft.Hosting.Lifetime[0]
      Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
      Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
      Content root path: D:\dotnet-docker\src
info: Microsoft.Hosting.Lifetime[0]
      Application is shutting down...

D:\dotnet-docker\src>WORKDIR /src
```



```
Administrator: C:\Windows\System32\cmd.exe
D:\dotnet-docker>WORKDIR /src
'WORKDIR' is not recognized as an internal or external command,
operable program or batch file.

D:\dotnet-docker>cd src

D:\dotnet-docker\src>COPY src/*.csproj .
The system cannot find the file specified.

D:\dotnet-docker\src>cd /path/to/dotnet-docker
The system cannot find the path specified.

D:\dotnet-docker\src>cd ..

D:\dotnet-docker>docker build --tag dotnet-docker .
[+] Building 0.3s (2/2) FINISHED
 => [internal] load build definition from Dockerfile                           0.2s
 => => transferring dockerfile: 2B                                             0.0s
 => [internal] load .dockerignore                                              0.2s
 => => transferring context: 2B                                                0.0s
ERROR: failed to solve: failed to read dockerfile: open /var/lib/docker/tmp/buildkit-mount1220739656/Dockerfile: no such file or directory

D:\dotnet-docker>docker images
REPOSITORY    TAG        IMAGE ID    CREATED    SIZE

D:\dotnet-docker>REPOSITORY      TAG            IMAGE ID       CREATED        SIZE
'REPOSITORY' is not recognized as an internal or external command,
operable program or batch file.

D:\dotnet-docker>docker images
REPOSITORY    TAG        IMAGE ID    CREATED    SIZE

D:\dotnet-docker>WORKDIR /src
'WORKDIR' is not recognized as an internal or external command,
operable program or batch file.

[+] Building 0.1s (2/2) FINISHED
 => [internal] load .dockerignore                                              0.0s
 => => transferring context: 2B                                                0.0s
 => [internal] load build definition from Dockerfile                           0.1s
```

```
D:\dotnet-docker>docker build --tag dotnet-docker .
[+] Building 0.2s (2/2) FINISHED
 => [internal] load build definition from Dockerfile
 => => transferring dockerfile: 2B
 => [internal] load .dockerignore
 => => transferring context: 2B
ERROR: failed to solve: failed to read dockerfile: open /var/lib/docker/tmp/buildkit-mount3325067921/Dockerfile: no such file or di

D:\dotnet-docker>docker build --tag dotnet-docker .
[+] Building 50.3s (17/17) FINISHED
 => [internal] load build definition from Dockerfile                                                    0.1s
 => => transferring dockerfile: 388B                                                                    0.0s
 => [internal] load .dockerignore                                                                       0.1s
 => => transferring context: 56B                                                                        0.0s
 => resolve image config for docker.io/docker/dockerfile:1                                              4.6s
 => docker-image://docker.io/docker/dockerfile:1@sha256:39b85bbfa7536a5feceb7372a0817649ecb2724562a38360f4d6a778  1.6s
 => => resolve docker.io/docker/dockerfile:1@sha256:39b85bbfa7536a5feceb7372a0817649ecb2724562a38360f4d6a7782a40  0.1s
 => => sha256:39b85bbfa7536a5feceb7372a0817649ecb2724562a38360f4d6a7782a409b14 8.40kB / 8.40kB         0.0s
 => => sha256:966d40f9ba8366e74c2fa353fc0bc7bbc167d2a0f3ad2420db8b9e633049462d 482B / 482B             0.0s
 => => sha256:dbdd11720762ad504260c66161c964e59eba06b95a7aa64a68634b598a830a91 2.90kB / 2.90kB         0.0s
 => => sha256:a47ff7046597eea0123ea02817165350e3680f75000dc5d69c9a310258e1bedd 11.55MB / 11.55MB       0.8s
 => => extracting sha256:a47ff7046597eea0123ea02817165350e3680f75000dc5d69c9a310258e1bedd              0.6s
 => [internal] load metadata for mcr.microsoft.com/dotnet/aspnet:6.0                                    0.8s
 => [internal] load metadata for mcr.microsoft.com/dotnet/sdk:6.0                                       0.8s
 => [build-env 1/6] FROM mcr.microsoft.com/dotnet/sdk:6.0@sha256:525bad260e88b16bc32adf5ea4e392e883a7a038163758  29.1s
 => => resolve mcr.microsoft.com/dotnet/sdk:6.0@sha256:525bad260e88b16bc32adf5ea4e392e883a7a038163758e0a70664083  0.1s
 => => sha256:24de6e2623991e3e5253a2e0b347dd70cde3abd9686ef9c152082d70eb788507 2.01kB / 2.01kB         0.0s
 => => sha256:f03b40093957615593f2ed142961afb6b540507e0b47e3f7626ba5e02efbbbf1 31.40MB / 31.40MB       3.2s
 => => sha256:525bad260e88b16bc32adf5ea4e392e883a7a038163758e0a70664083f7bb37e 1.82kB / 1.82kB         0.0s
 => => sha256:541f4bb5cf223fdeec460025550c7925cef409b08566e0e336e782a763afb777 7.17kB / 7.17kB         0.0s
 => => sha256:bfeaa03ad070f969070ed8692a3239a27930cfccafa513613283ae66a5e35f00 15.17MB / 15.17MB       2.0s
 => => sha256:19c563ebbf97ae68f79f9462883c9c83ba924b52b67345e77c3164766e640153 31.63MB / 31.63MB       3.3s
 => => sha256:a71ed65a9b46e92cca539fe97f54a4e58ce5dfd97c492a24e2bbd11d8be5ce31 155B / 155B             2.1s
 => => sha256:dbea2735d60a6fd17c0682a133d8034e66be9a7a028d0887e76dbb8974be69cd 9.46MB / 9.46MB         3.4s
 => => extracting sha256:f03b40093957615593f2ed142961afb6b540507e0b47e3f7626ba5e02efbbbf1             8.1s
 => => sha256:c7e16202c1e1c56776fbbd6eaa0b1c547be1f4ee6f0285d5678c30bc81826185 148.55MB / 148.55MB     9.8s
 => => sha256:0a870562846b4eee6cc58b0c4467e1777896158c4b00d4e4838fb871f9e18c37 13.61MB / 13.61MB       5.1s
 => => sha256:0c7e41386c8eadde46a3290f80435c97d8a7a726709984d2588d6eef7568287b 25.37MB / 25.37MB       5.7s
 => => extracting sha256:bfeaa03ad070f969070ed8692a3239a27930cfccafa513613283ae66a5e35f00             1.0s
 => => extracting sha256:19c563ebbf97ae68f79f9462883c9c83ba924b52b67345e77c3164766e640153             1.2s
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     No XML encryptor configured. Key {e1e6a40c-24b3-4ffa-a4f9-dffe18eb6d8c} may be persisted to storage in unencrypted form.
info: Microsoft.Hosting.Lifetime[14]
     Now listening on: http://[::]:80
info: Microsoft.Hosting.Lifetime[0]
     Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
     Hosting environment: Production
info: Microsoft.Hosting.Lifetime[0]
     Content root path: /publish/
info: Microsoft.Hosting.Lifetime[0]
     Application is shutting down...

D:\dotnet-docker>docker ps
CONTAINER ID   IMAGE     COMMAND    CREATED    STATUS    PORTS        NAMES

D:\dotnet-docker>docker run -d -p 5000:80 dotnet-docker
efcf53b2df69b97352417e987f9e88ca3c67a235a7b4e825923c2bcfabf314af

D:\dotnet-docker>docker ps
CONTAINER ID   IMAGE           COMMAND              CREATED         STATUS         PORTS                  NAMES
efcf53b2df69   dotnet-docker   "dotnet myWebApp.dll"  59 seconds ago  Up 58 seconds  0.0.0.0:5000->80/tcp   quizzical_gagarin

D:\dotnet-docker>

D:\dotnet-docker>
```

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