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Docker - The framework microsoft.AspNetCore.App, version '3.1'0 was not found on build

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<https://devblogs.microsoft.com/premier-developer/running-a-.net-core-web-application-in-dock>

★

I built a .NET Core app in visual studio and am using .NET Core 3.1 and I (think) have verified all the correct .NET core versions are installed, but docker seems to think that nothing is there. My project builds correctly but when I attempt to run it, it barks at me that no .NET frameworks were found.

I'm new to docker and .NET core so I could definitely be missing something obvious so let me know if you have any suggestions! Thanks!

dotnet --info

```
.NET Core SDK (reflecting any global.json):
Version: 3.1.101
Commit: b377529961

Runtime Environment:
OS Name: Windows
OS Version: 10.0.17763
OS Platform: Windows
RID: win10-x64
Base Path: C:\Program Files\dotnet\sdk\3.1.101\

Host (useful for support):
Version: 3.1.1
Commit: a1388f194c

.NET Core SDKs installed:
3.0.102 [C:\Program Files\dotnet\sdk]
3.1.101 [C:\Program Files\dotnet\sdk]

.NET Core runtimes installed:
Microsoft.AspNetCore.All 2.1.15 [C:\Program Files\dotnet\shared\Microsoft.AspNetCore.All]
Microsoft.AspNetCore.App 2.1.15 [C:\Program Files\dotnet\shared\Microsoft.AspNetCore.App]
Microsoft.AspNetCore.App 3.0.2 [C:\Program Files\dotnet\shared\Microsoft.AspNetCore.App]
Microsoft.AspNetCore.App 3.1.1 [C:\Program Files\dotnet\shared\Microsoft.AspNetCore.App]
Microsoft.NETCore.App 2.1.15 [C:\Program Files\dotnet\shared\Microsoft.NETCore.App]
Microsoft.NETCore.App 3.0.2 [C:\Program Files\dotnet\shared\Microsoft.NETCore.App]
Microsoft.NETCore.App 3.1.0 [C:\Program Files\dotnet\shared\Microsoft.NETCore.App]
Microsoft.NETCore.App 3.1.1 [C:\Program Files\dotnet\shared\Microsoft.NETCore.App]
Microsoft.WindowsDesktop.App 3.0.2 [C:\Program Files\dotnet\shared\Microsoft.WindowsDesktop.App]
Microsoft.WindowsDesktop.App 3.1.1 [C:\Program Files\dotnet\shared\Microsoft.WindowsDesktop.App]

To install additional .NET Core runtimes or SDKs:
https://aka.ms/dotnet-download
```

docker pull mcr.microsoft.com/dotnet/core/runtime:3.1

```
3.1: Pulling from dotnet/core/runtime
ee446884f7be: Already exists
e60301a457d1: Already exists
9aa45ac5964a: Already exists
a0172a0e2f05: Already exists
0e4e03cc72ce: Already exists
d12a8fd361d3: Already exists
Digest: sha256:1a3131bbfc5508197fb760dc05c816f42e7f911c8bb8a4c9b5bde3cdad6ac76
Status: Downloaded newer image for mcr.microsoft.com/dotnet/core/runtime:3.1
mcr.microsoft.com/dotnet/core/runtime:3.1
```

docker build -t aspnetapp . Sending build context to Docker daemon 4.392MB

```
--> Using cache
--> baf04998e0f5
Step 3/10 : COPY *.csproj .
--> Using cache
--> 57d5b8c9b8b
Step 4/10 : RUN dotnet restore
--> Using cache
--> 3a78664422c1
Step 5/10 : COPY . .
--> 7ad7515946be
Step 6/10 : RUN dotnet publish -c Release -o out
--> Running in 7b9fd1655346
Microsoft (R) Build Engine version 16.4.0+e901037fe for .NET Core
Copyright (C) Microsoft Corporation. All rights reserved.

Restore completed in 41.12 ms for C:\app\aspnetapp.csproj.
aspnetapp -> C:\app\bin\Release\netcoreapp3.1\aspnetapp.dll
aspnetapp -> C:\app\bin\Release\netcoreapp3.1\aspnetapp.Views.dll
aspnetapp -> C:\app\out\
Removing intermediate container 7b9fd1655346
--> df9351064b25
Step 7/10 : FROM mcr.microsoft.com/dotnet/core/runtime:3.1
--> 96ec6546e277
Step 8/10 : WORKDIR /app
--> Running in 33e62d3940a5
Removing intermediate container 33e62d3940a5
--> 0fe4fecf63895
Step 9/10 : COPY --from=build-env /app/out .
--> fe8793b4a38d
Step 10/10 : ENTRYPOINT ["dotnet", "aspnetapp.dll"]
--> Running in a856a898d3f9
Removing intermediate container a856a898d3f9
```

The Overflow Blog

Learning to work asynchronously takes time

Podcast 232: Can We Decentralize Contact Tracing?

Featured on Meta

Improving the Review Queues - Project overview

Introducing the Moderator Council - and its first, pro-tempore, representatives

Triage needs to be fixed urgently, and users need to be notified upon...

Question Close Updates: Phase 1

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Toptal ⚡ No office location

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javascript reactjs

Software Engineer, Language & Translation

Wikimedia Foundation, Inc. ⚡ No office location

REMOTE

javascript reactjs

Web Developer (m/w/d) Shopware - REMOTE

signmundsinn GmbH ⚡ No office location

REMOTE

javascript html

Senior JavaScript Developer

Cypress.io ⚡ Atlanta, GA

REMOTE

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REMOTE

javascript node.js

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3 Docker build fails with the current .NET SDK does not support targeting .NET Core 2.1

```
>>> 4802cf9997df
Successfully built 4802cf9997df
Successfully tagged aspnetapp:latest
```

dockerfile

```
FROM mcr.microsoft.com/dotnet/core/sdk:3.1 AS build-env
WORKDIR /app
# Copy csproj and restore as distinct layers
COPY *.csproj ./
RUN dotnet restore
# Copy everything else and build
COPY . .
RUN dotnet publish -c Release -o out
# Build runtime image
FROM mcr.microsoft.com/dotnet/core/runtime:3.1
WORKDIR /app
COPY --from=build-env /app/out .
ENTRYPOINT ["dotnet", "aspnetapp.dll"]
```

docker error

```
docker run -p 8080:80 --name myapp aspnetapp
docker : It was not possible to find any compatible framework version
At line:1 char:1
+ docker run -p 8080:80 --name myapp aspnetapp
+ ~~~~~
+ CategoryInfo          : NotSpecified: (It was not poss...amework version:String) [], 
+ FullyQualifiedErrorId : NativeCommandError

The framework 'Microsoft.AspNetCore.App', version '3.1.0' was not found.
- No frameworks were found.
You can resolve the problem by installing the specified framework and/or SDK.
The specified framework can be found at:
- https://aka.ms/dotnet-core-applaunch?framework=Microsoft.AspNetCore.App&framework_versi
```

.csproj

```
<Project Sdk="Microsoft.NET.Sdk.Web">

<PropertyGroup>
    <TargetFramework>netcoreapp3.1</TargetFramework>
</PropertyGroup>

</Project>
```

docker image -ls

REPOSITORY	TAG	IMAGE ID	CREATE
aspnetapp	latest	4802cf9997df	14 min
<none>	<none>	df9351064b25	14 min
<none>	<none>	05d5c7a53a75	18 min
<none>	<none>	cfc51668b9e9	40 min
<none>	<none>	c158d7286812	40 min
<none>	<none>	42135746c732	About
<none>	<none>	a898ac91a635	About
<none>	<none>	6c73f17b1c56	2 hour
<none>	<none>	bcdcd1874e78	2 hour
myimage	latest	1bd4d8c7dffe4	3 hour
mcr.microsoft.com/dotnet/core/samples	aspnetapp	17070fe9e96c	8 days
mcr.microsoft.com/dotnet/core/samples	latest	425e8480ff0f	8 days
hello-world	latest	42514ac01c56	3 week
mcr.microsoft.com/dotnet/core/sdk	3.1	abe8d004f003	3 week
mcr.microsoft.com/dotnet	sdk	bd7379c04097	3 week
mcr.microsoft.com/dotnet/core/aspnet	3.1	704413499629	3 week
mcr.microsoft.com/dotnet/core/runtime	3.1	96ec6546e277	3 week
microsoft/dotnet	2.1-aspnetcore-runtime	3c196369ffdc	3 week
microsoft/dotnet	aspnetcore-runtime	3c196369ffdc	3 week
microsoft/dotnet	3.0-aspnetcore-runtime	04b08b1edce	11 mon

C# .net docker asp.net.core docker-for-windows

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asked Feb 10 at 21:24

 user1299379
121 1 1 9

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2 Answers

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For ASP.NET Core you need the matching container image from

mcr.microsoft.com/dotnet/core/aspnet . mcr.microsoft.com/dotnet/core/runtime doesn't have the extra ASP.NET Core pieces, it's only sufficient for .NET Core apps using the basic framework.

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answered Feb 10 at 21:49

 yaakov
4,159 28 40



Hey Yaakov - I changed mine up to use the aspnet.3.1 and the runtime.3-1. It started failing on the dotnet restore with "a non zero code." 2147516561. I got it working by using the SDK for both FROM commands. Is there a reason why I shouldn't be using the SDK? Shouldn't the SDK have both the runtime and aspnet versions matching up? – [user1299379](#) Feb 12 at 16:30 ✓

1 Why is Microsoft AspNetCore App listed under runtimes?

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