

Docker Buildx Multi-Arch

```
sudo docker buildx create --use --name multi-arch-builder
```

Usage:

```
sudo docker buildx build --platform=linux/arm64 -t tag:latest -f ./DockerTest/Dockerfile --load --no-cache .
```

DockerFile:

```
#See https://aka.ms/customizecontainer to learn how to customize your debug container and how Visual Studio uses this Dockerfile to build your images for faster debugging.
```

```
FROM mcr.microsoft.com/dotnet/aspnet:8.0-alpine AS base
USER app
WORKDIR /app
EXPOSE 8080
EXPOSE 8081

FROM --platform=$BUILDPLATFORM mcr.microsoft.com/dotnet/sdk:8.0-alpine AS build
ARG BUILDPLATFORM
ARG TARGETARCH
ARG BUILD_CONFIGURATION=Release
RUN echo "Target: $TARGETARCH"
RUN echo "Build: $BUILDPLATFORM"
WORKDIR /src
COPY ["DockerTest/DockerTest.csproj", "DockerTest/"]
RUN dotnet restore "./DockerTest/DockerTest.csproj" -a $TARGETARCH
COPY . .
WORKDIR "/src/DockerTest"
RUN dotnet build "./DockerTest.csproj" -c $BUILD_CONFIGURATION -o /app/build -a $TARGETARCH

FROM build AS publish
ARG TARGETARCH
ARG BUILD_CONFIGURATION=Release
RUN dotnet publish "./DockerTest.csproj" -c $BUILD_CONFIGURATION -o /app/publish
```

```
/p:UseAppHost=false -a $TARGETARCH
```

```
FROM base AS final
```

```
WORKDIR /app
```

```
COPY --from=publish /app/publish .
```

```
ENTRYPOINT ["dotnet", "DockerTest.dll"]
```

<https://stackoverflow.com/questions/70757791/build-linux-arm64-docker-image-on-linux-amd64-host>

<https://ruanbekker.medium.com/how-to-create-arm-based-container-images-with-buildx-fe917d186824>

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