Deploy Dotnet API on Azure VM

Steps:

1. Create VM: Image (OS) - > Ubuntu 20.04 x64 Gen1; Enable ports: 80 (HTTP), 22.
2. At the end of creating VM download the key value pair as pem file for later use.
3. As we are using Ubuntu, we will not have RDP in our inbound rules, so we cannot open VM using Microsoft remote desktop by just giving the IP.
4. Open terminal in mac: ssh -I “path to your .pem file” azureuser@IP
5. Now after entering your VM: Install, enable and start docker. Check for docker version for clarifying.
6. Now that your docker is ready to action, get your web Api ready, just start a new web api project at 9.0 – creates a basic weather api.
7. Add docker file: stages: 1. Compile: ASPNetcore 9.0 sdk as build, copy all files, and run publish command(complies), 2. Runtime: ASPNetcore 9.0 as aspnet as runtime, copy all published files from build, expose and give entry point.
8. After docker file creation, build – and push into docker hub.
9. Now go back into VM and pull the image.
10. Containerize it by run command (daemon off, port mapping).
11. Now that the container runs, so does the application, check any endpoints with curl command, remember we are using VM so instead of localhost, enter your VM IP.
12. Here curl http:IP:/weatherforecast - and it returns the value.