# Setting up Visual Studio 2015 to Deploy to our Docker Server

* Install and configure Visual Studio 2015 (VS). Either the community or enterprise version will work. For this purpose we will use the community version.
* Install the [Docker add-on for Visual Studio](https://visualstudiogallery.msdn.microsoft.com/6f638067-027d-4817-bcc7-aa94163338f0)
  + Restart VS
* Copy the files from the DockerCerts.zip file the location Docker expects them
  + mkdir %userprofile%\.docker
    - If you cannot create this folder in Explorer, use the DOS command above to create it.
    - The full path is C:\Users\YourProfile\.docker
  + Expand all of the files into the new directory
  + Run: dir %userprofile%\.docker and verify you have four \*.pem files.
* Prepare to deploy your build in VS
  + Verify that Unit, user testing, and QA have been completed.
  + Right click on your project, and choose publish
  + Choose the second option “Docker Containers”
    - If you do not see Docker Containers as an option, verify that you installed the Docker Add on, and restart Visual Studio.
  + Check the box next to “Custom Docker Host”, and click OK.
  + On this screen enter: (Refer to Appendix A: for an example setup)
    - Server URL: tcp://batcave1.sditdev.local:2376
    - Image Name: This will be the name of the Docker file. It is helpful to add a colon and incrementing version after the name: e.g. pool1:1.00
      * Use all lower case letters
    - The Port settings depend on which app you are deploying.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Application** | **Host Port** | **Container Port** | **Internal URL** | **Load Balancer URL** | **Friendly URL** |
| Pool1App | 81 | 80 | [http://10.0.0.212:81](http://10.0.0.212:81/) | [http://Pool1-1350759260.us-west-2.elb.amazonaws.com](http://pool1-1350759260.us-west-2.elb.amazonaws.com/) | <http://pool1demo.threewiresys.com> |
| Pool2App | 82 | 80 | [http://10.0.0.212:82](http://10.0.0.212:81/) | [http://Pool2-1785770309.us-west-2.elb.amazonaws.com](http://pool2-1785770309.us-west-2.elb.amazonaws.com/) | <http://pool2demo.threewiresys.com> |
| Pool3App | 83 | 80 | [http://10.0.0.212:83](http://10.0.0.212:81/) | [http://Pool3-1862571234.us-west-2.elb.amazonaws.com](http://pool3-1862571234.us-west-2.elb.amazonaws.com/) | <http://pool3demo.threewiresys.com> |

* + - Expand Docker Advanced Options
    - In the Auth Options box, add: --tls (two dashes)
    - Click the “Validate Connection” button and verify you get a green checkbox.
    - Select Publish

**Appendix A – Screen Shot of the CustomDockerHost Publish Page:**

