In this lab, we will build a simple C# cloud development environment. **As a prerequisite for the next recitation class**, we will take time to set up a cloud development environment. The cloud environment to be used is **goorm.io**, which provides a virtual development environment based on Ubuntu OS in the form of a Docker container. We can use Linux shells, install the packages we want, and operate servers such as web servers and DB servers.

STEP1. Sign up for Goorm.io:

* Go to the Goorm IDE website (<https://ide.goorm.io/>)
* Sign up for the site

STEP2. Setting up a C# compilation environment and running example code

* Create a docker container:
  + Think of it as building a computer.
  + When creating, select C/C++ as the development language and Ubuntu 20.04.
    - When selecting C#, only Ubuntu 14 can be selected
* Run the command below in the terminal
  + sudo apt install mono-complete
  + After installation is complete, enter the sample C# code below (hello.cs) and save.

|  |
| --- |
| using System;  namespace Project\_1 {  class MainClass {  public static void Main (string[] args) {  Console.WriteLine ("Hello World!");  Console.ReadKey ();  }  }  } |

Code input is done through an IDE environment or terminal (vi, emacs, nano, etc., if not installed, use)

* + mcs -out:hello.out hello.cs # compile / mcs hello.cs
  + mono hello.out # running

When you are done using it, stop the container (Stop button). Otherwise, it will continue to consume usage time.

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