

Raspberry Pi Development with Visual C++ for Linux

Xiao Ling / April 11, 2016 / RaspberryPi / linux, Raspberry Pi, visual studio 0 Comments

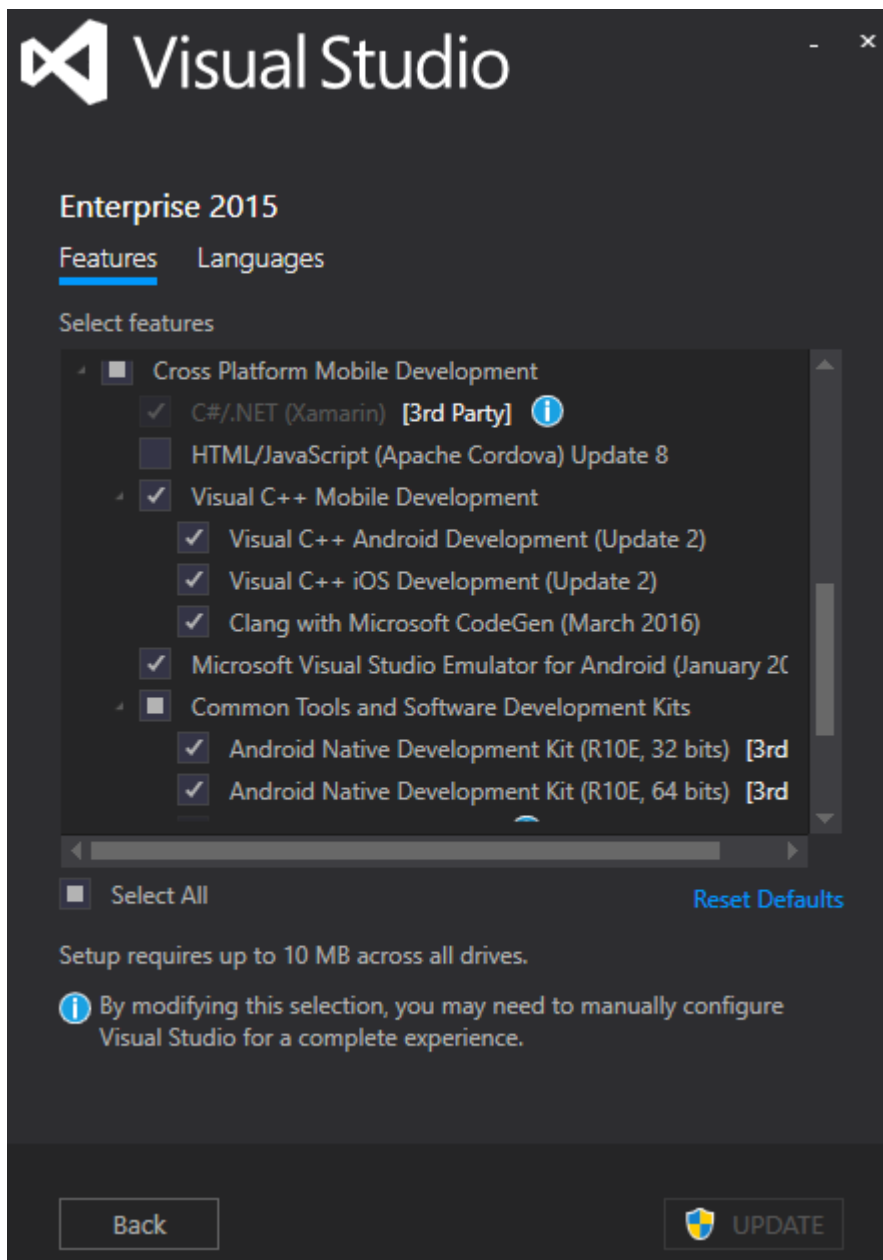
During Build 2016, Microsoft released a Visual Studio C++ extension for Linux. With the extension, you can use Visual Studio to write C++ code for Linux devices. In this post, let's take a glimpse of how to install the extension and how to remotely build and debug C/C++ code for Raspberry Pi.

Getting Started

Install Visual Studio extension for Linux development

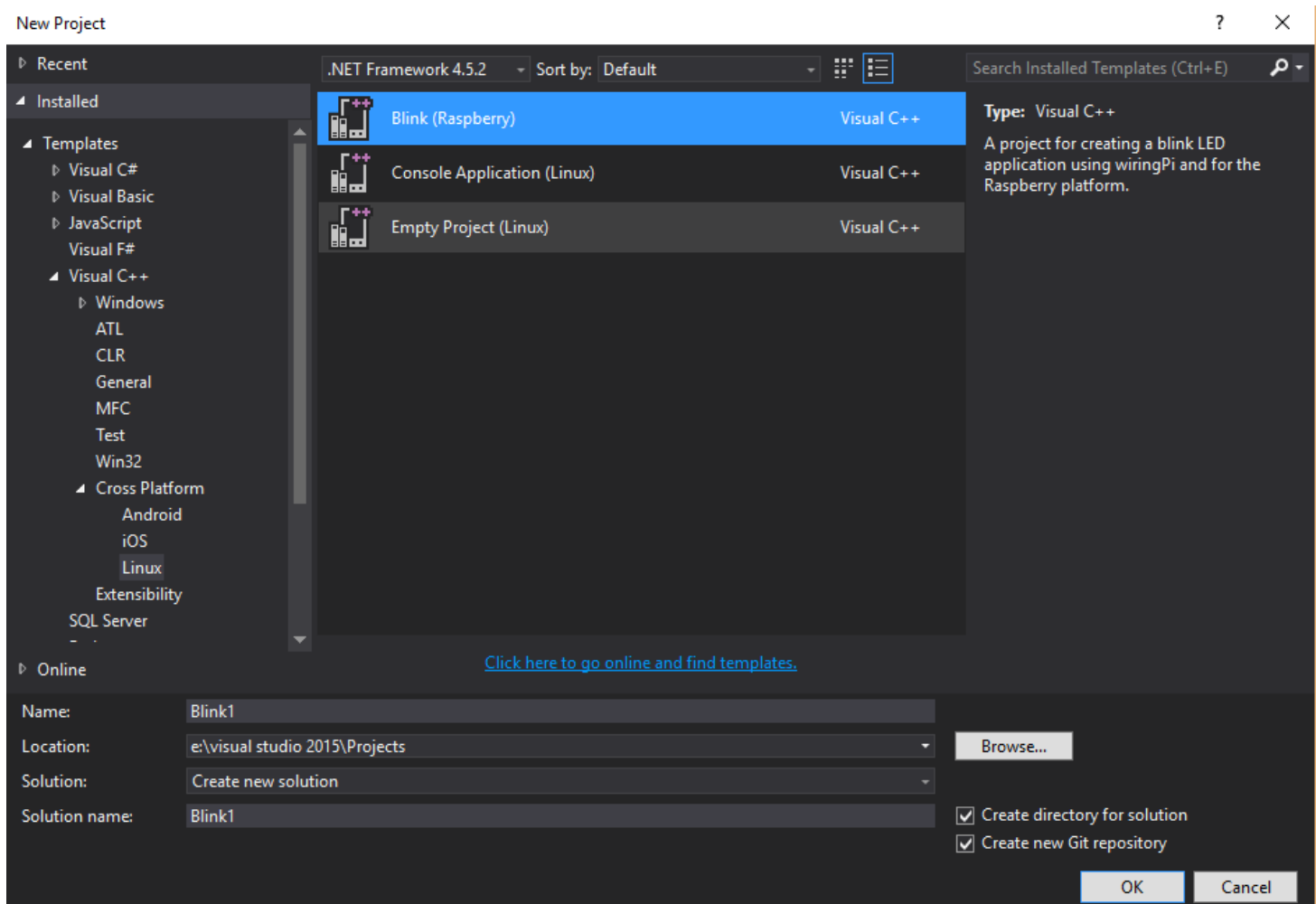
Download [Visual C++ for Linux](#).

It will fail to install the extension if you do not have **Cross Platform Mobile Development** tools installed:



Create a Linux project for Raspberry Pi

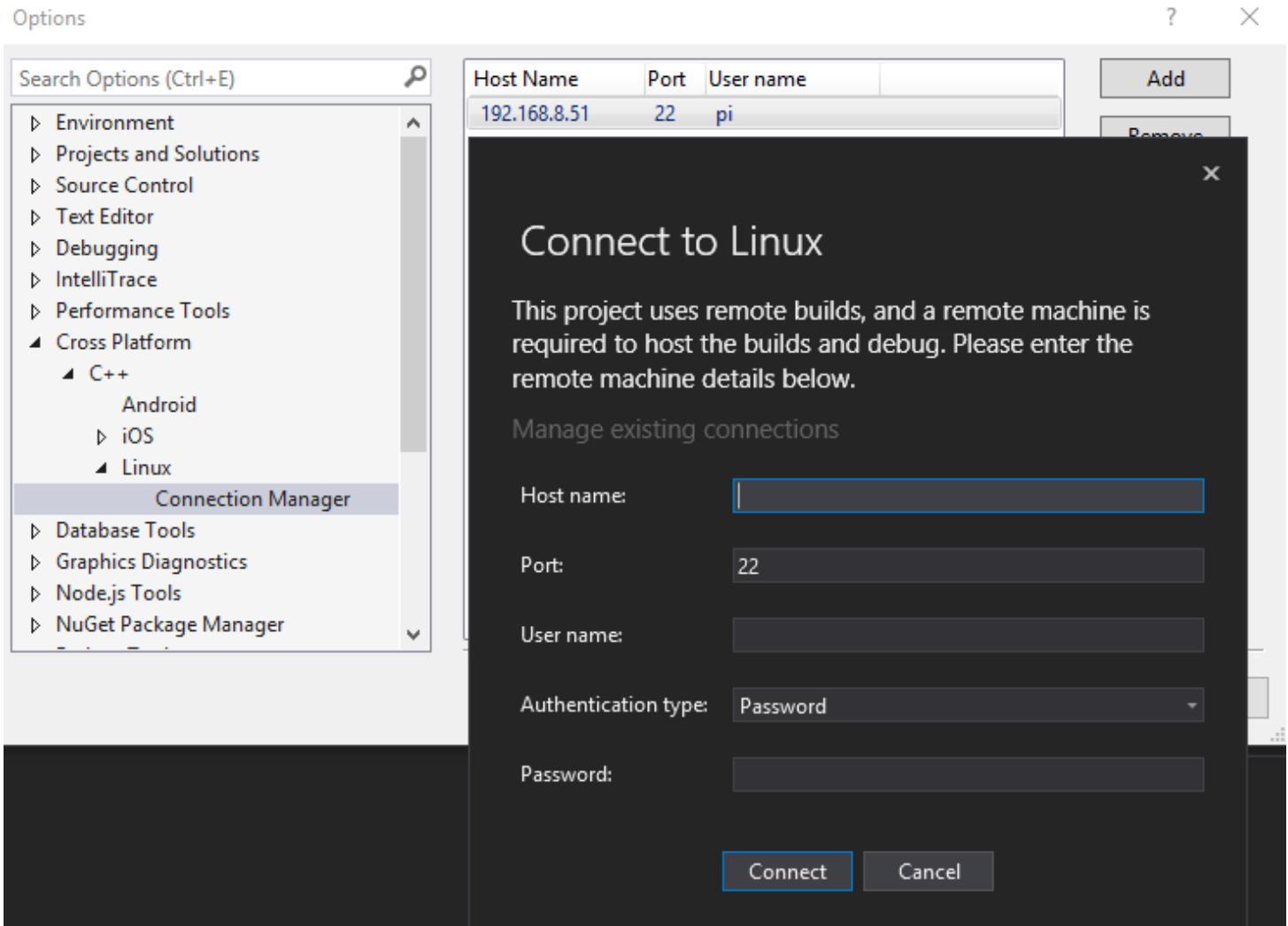
Open Visual Studio 2015. Click **File > New > Project > Installed > Templates > Visual C++ > Cross Platform > Linux** to create a new project for Raspberry Pi:



If you just want to create a simple console project, choose **Console Application (Linux)**.

Open **Configuration Manager**, and then change platform to **ARM**.

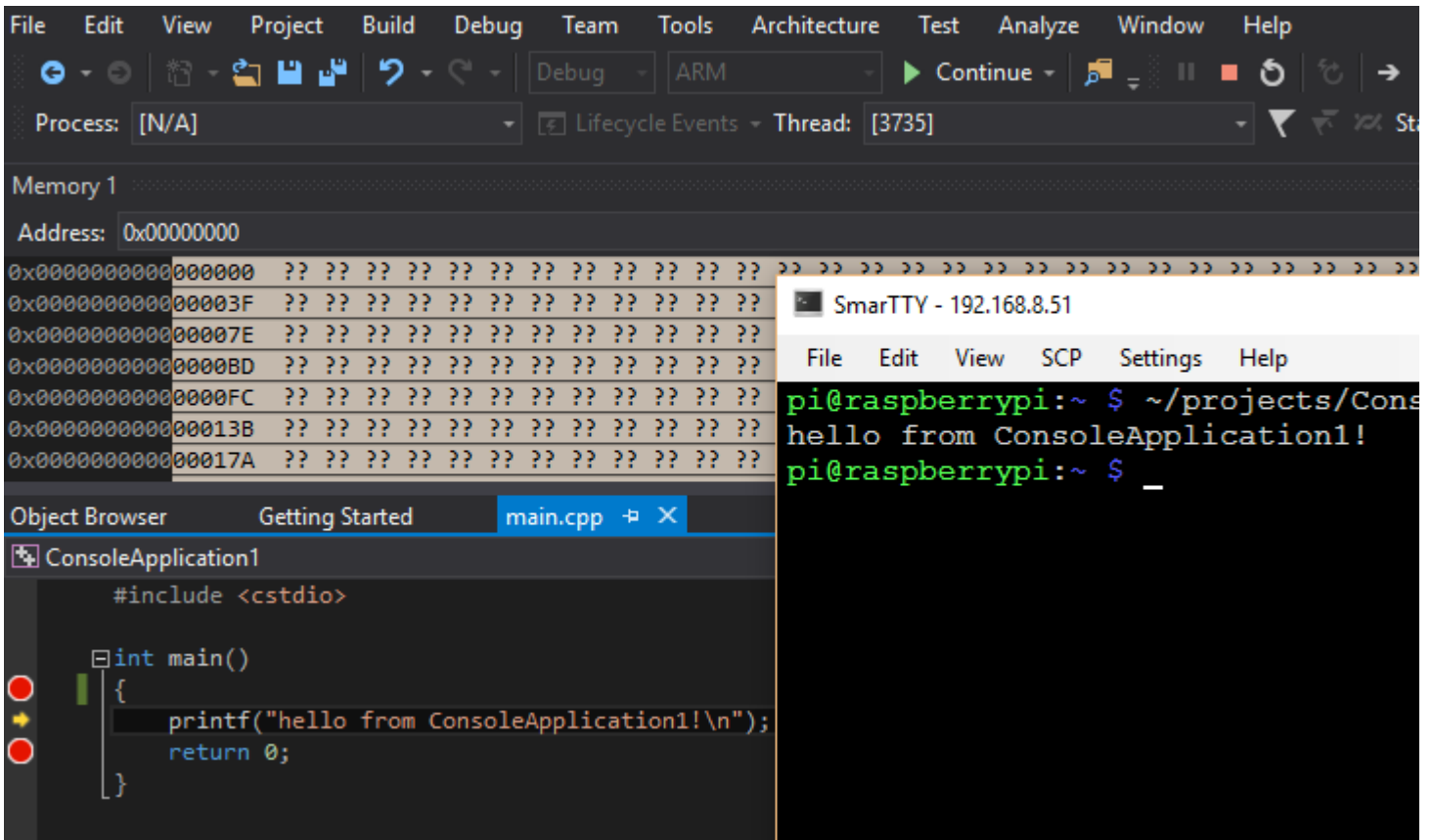
Click menu **Tools > Options > Cross Platform > Linux** to create a new connection:



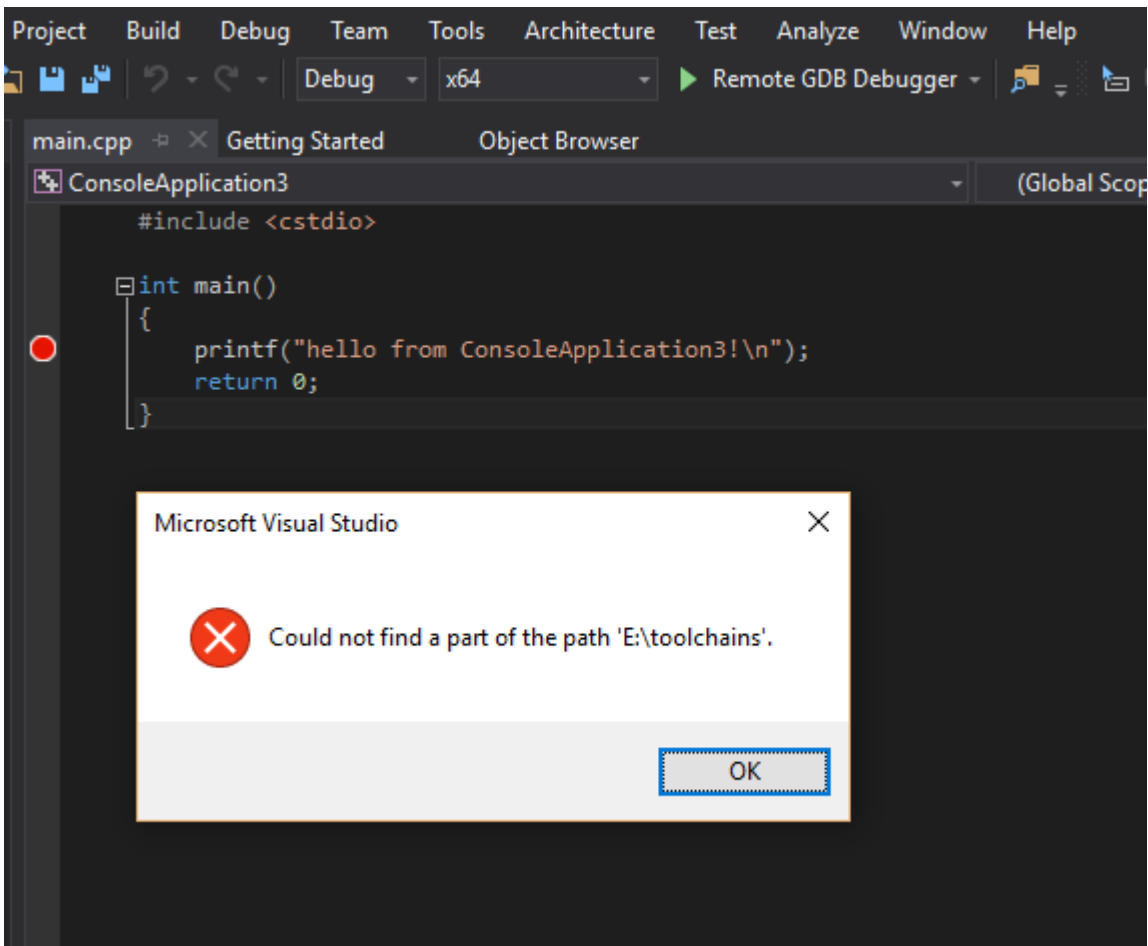
Make sure you have installed following packages on Raspberry Pi:

```
1 | sudo apt-get install openssh-server g++ gdb gdbserver
```

Build and debug your code:



What if you see the error message “Could not find a part of the path”?



Update your Visual Studio 2015 to the latest version and restart it:

About Microsoft Visual Studio

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Microsoft Visual Studio Enterprise 2015
Version 14.0.25123.00 Update 2
© 2016 Microsoft Corporation.
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Microsoft .NET Framework
Version 4.6.01038
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Installed products:


Architecture and Modeling Tools	00325-70002-43136-AA343
Visual Basic 2015	00325-70002-43136-AA343
Visual C# 2015	00325-70002-43136-AA343
Visual C++ 2015	00325-70002-43136-AA343
Windows Phone SDK 8.0 - ENU	00325-70002-43136-AA343
Application Insights Tools for Visual Studio Package	5.2.60328.3
ASP.NET and Web Tools 2015.1 (Beta8)	14.1.11106.0
ASP.NET Web Frameworks and Tools 2012.2	4.1.41102.0
ASP.NET Web Frameworks and Tools 2013	5.2.40314.0
Clang with Microsoft CodeGen	14.0.25115

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System Info

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Product details:

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OK

When using Visual C++ for Linux, I got some weird issues occasionally. Hopefully, Microsoft will fix bugs and release updates as soon as possible.