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## Emulation on a Windows PC

Asked 8 years, 4 months ago   Active 2 months ago   Viewed 65k times



How can I emulate the Raspberry Pi on Windows?

45

Related: [Emulation on a Linux PC](#)



emulation   windows

18



edited Apr 13 '17 at 12:56



Community ♦  
1

asked Jun 15 '12 at 11:56



Alex L  
7,235   11   39   53

Meta discussion: [meta.raspberrypi.stackexchange.com/a/122/35](http://meta.raspberrypi.stackexchange.com/a/122/35) – Alex L Jun 15 '12 at 12:02

Cygwin must be used to run QEMU in Windows. I don't know any other way. – Jivings Jun 15 '12 at 12:30

@Jivings There's a(n unofficial) precompiled version - [lassauge.free.fr/qemu](http://lassauge.free.fr/qemu) – Alex L Jun 15 '12 at 12:50

- 1 @ACarter It's not. Because Alex wants to emulate the ARM architecture, just just the OS. – Jivings Jun 20 '12 at 21:21
- 2 I'm still disappointed with the quality of the answers here; they are either prone to link rot or don't explain what is going on. – Alex Chamberlain Jul 27 '12 at 15:58

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+100



I found a rare gem of a tutorial while trying to find updates for the [RISC OS](#) distribution for the RPi. It goes in-depth on how to [emulate the RPi in Windows using QEMU](#). The tutorial is also generous enough to provide a link to the Win32 binary for [QEMU](#). I plan on following this tutorial myself when I find the time.

answered Jun 20 '12 at 16:18



Andrew Larsson

1,574 16 22

- 
- 3 Could you please expand your answer to protect against link rot? Cheers! – [Alex L](#) Sep 16 '12 at 12:03
- 
- 1 Of course! I'll have it done soon. – [Andrew Larsson](#) Sep 16 '12 at 18:53
- 
- 1 @Jivings I've been attacked by life which has made my schedule quite busy. It's still on my list of things to do, though! I'd normally do it at work, but I got a new job that's much more time-consuming. – [Andrew Larsson](#) Sep 25 '12 at 20:03
- 
- 1 Well, it's been 15 months... – [That Brazilian Guy](#) Sep 3 '13 at 13:09
- 
- 1 @ThatBrazilianGuy I know; I'm a terrible person. It's still on my list, though, along with a couple things for AskDifferent. – [Andrew Larsson](#) Sep 10 '13 at 22:19
- 



12



There is a very nice raspberry pi forum posting about ["Emulating Raspberry Pi in Windows the easy way"](#). Somebody all ready did all the work to make raspberry pi emulation in Windows as simple as possible. The instructions are

1. [download a zip from sourceforge](#)
2. Unzip the file when it finishes downloading.
3. Inside the folder you should find a run.bat file which will do all the magic for you.

The zip file is literally Raspberry Pi in a zip, it contains Qemu along with the Wheezy squeeze, and the batch file that you run to start the emulation contains the exact command to start Qemu as an ARM CPU running Wheezy. This is the epitome of KISS.

It should be noted that others have downloaded and checked the files for viruses and that the emulation has been confirmed on several versions of Windows. I can confirm the emulation works in Windows 7 Ultimate.

Bear in mind that the default keyboard layout is English GB. If you are using an English US keyboard then there'll be some problems with the | character, to fix it you need to run the configure keyboard option at the Raspi-config tool at first boot up.

edited Jul 28 '12 at 16:09

answered Jul 24 '12 at 6:11

1 I can also confirm that this way works also in Windows 10. – [Ad Infinitum](#) Jan 13 '17 at 8:22

You can emulate the RPi in VirtualBox with relative ease.

1 Here is a [thread](#) with instructions. It's rather straightforward to get this up and running.

EDIT: You need to get Scratchbox and QEMU working with this as VirtualBox doesn't emulate ARM out the box.

[Here](#) are further instructions. ([Same link, from web.archive.org](#))

edited Sep 4 at 10:22



Giuseppe C

3 2

answered Jun 26 '12 at 11:27



darryn.ten

1,366 2 13 18

The problem with this is that it won't be ARM architecture. – [Jivings](#) Jun 26 '12 at 11:39

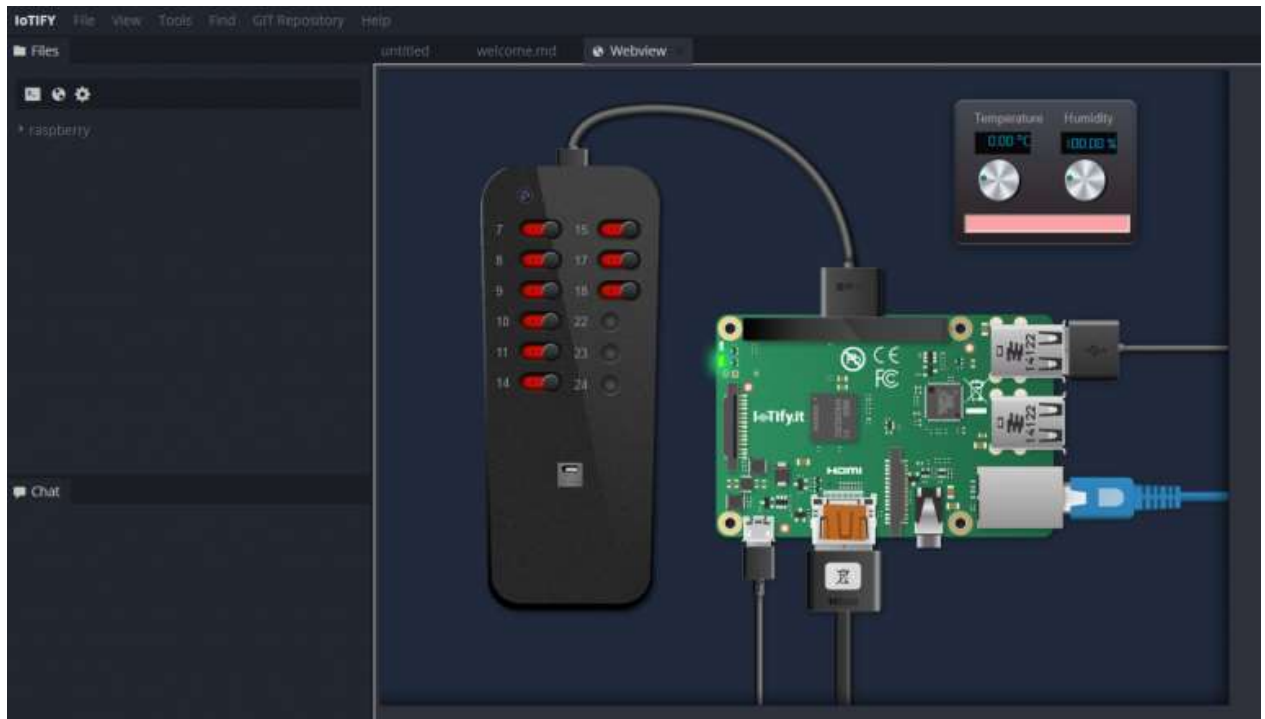
2 No, you need to use a instruction set emulator, such as QEMU. – [Jivings](#) Jun 26 '12 at 11:42

1 Nice, you have my upvote now. – [Jivings](#) Jun 26 '12 at 12:03

4 If the links die, this answer will be rather useless. Could you summarise the content? – [Alex L](#) Jun 27 '12 at 5:30

2 link to instructions are dead :( – [Piotr Kula](#) Feb 19 '15 at 21:35

You could easily try my Raspberry Pi simulator included with sensor, command line and file editor at [iotify.io](https://docs.iotify.io/). Check out our documentation at <https://docs.iotify.io/> to get started with the different projects OS and make yourself familiar with Raspberry Pi working environment.



Post new message

edited Feb 1 '17 at 18:22



goldilocks ♦

51.7k 14 88 202

answered Feb 1 '17 at 16:40



iotify

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