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How To Install Windows 10 on Raspberry Pi 2

BY **ARPIT VERMA** · MAY 2, 2015
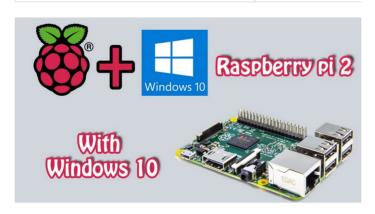
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Remotely access your Raspberry Pi without needing SSH, DynDNS or VPN	10/8帶你進入Python Pi2套組，倒數10名，

Here I am going to tell you how to install Windows 10 IoT on our beloved Raspberry Pi 2. Microsoft has brought the easiness and power of Windows operating system to Raspberry Pi 2. We all know that the Raspberry Pi 2 is a $35, credit-card sized computer that can be plugged into a monitor or TV and used with a standard keyboard and mouse.

M icrosoft says that Windows 10 IoT Core is a new edition of Windows for small-footprint and low-cost devices. This OS will be available for free to Makers as well as the commercial device builders. So, you can easily take advantage of this Windows 10 IoT and install on your Raspberry Pi 2 and bring awesomeness to your projects.

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On its GitHub page, Microsoft has provided the links and instructions for installing Arduino, Raspberry Pi, Galileo, and MinnowBoard. Links of images used for downloading. So without wasting much time, let's proceed further with our tutorial on how to install Windows 10 IoT on Raspberry Pi 2:

Step 1:

What do you need for installing Windows 10 IoT on Raspberry Pi 2? (A checklist)

1. A computer running Windows 10.
2. A Raspberry Pi 2.
3. HDMI cable (if display is desirable).
4. An 8GB Class 10 micro SD card or better.

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5. Ethernet cable.

6. A 5V USB power supply with at least
   1A current (more like >2A for several
   other USB devices)

Get complete Raspberry Pi 2 starter kit
here.

Transferring
Windows 10 IoT Core
Insider Preview Image
on SD Card:

Follow the instructions below to put the
Windows 10 image on your card. This
should be done on a PC with Windows
installed on it physically.

1. Download the ISO for the Raspberry
   Pi 2 from the Microsoft Download
   Center.

2. **Save the ISO** to a local folder.

3. Double click on the ISO (IoT Core
   RPi.iso). It will automatically mount
   itself as a virtual drive so you can
   access the contents.

4. Install
   Windows_10_IoT_Core_RPi2.msi.
   When installation is complete,
   flash.ffu will be located at
   **C:\Program Files (x86)\Microsoft
   IoT\FFU\RaspberryPi2**

5. Eject the Virtual CD when done.

6. **Insert a micro SD card** into your SD
   card reader.m

7. **Use IoTCoreImageHelper.exe** to
   flash the SD card. Search for
   "WindowsIoT" from start menu and
   select the shortcut
   "WindowsIoTImageHelper" (search
   the program in Start Menu)

8. The tool will enumerate devices as
   shown. Select the SD card you want

to flash and then provide the location of the ffu and flash the image.

9. Click on the **Safely Remove Hardware** icon in your task tray and select your USB SD card reader to safely remove it from the system.

Now it's time to insert the SD card in Raspberry Pi 2:

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1. Now insert the SD card loaded with Windows 10 IoT image as shown below.
2. Connect network cable to the Ethernet port.
3. Connect HDMI monitor to the HDMI port.
4. Connect the power supply to the micro USB port.

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How to boot Windows 10 IoT Core Preview:

1. The Windows 10 IoT image in your Raspberry Pi will automatically boot after switching on the power supply.
2. Just like the usual Windows booting,

you will be greeted with a blue Windows logo followed by a black screen for about 2 minutes.

3. The Pi will now reboot to a blue-screened window with "MinWin" written on the top. Again you will have to wait for a long time.

4. Finally, the Pi will reboot for the second time to display the DefaultApp, displaying your Raspberry Pi's IP address.

5. Follow the PowerShell documentation here to use PowerShell to connect to your running device. You can also follow the instructions here to use SSH to connect to your device.

6. It is highly recommended that you update the default password for the Administrator account. To do this, issue the following commands in your PowerShell connection: Replace [new password] with a strong password:

```
1 net user Administrator [new password
2
```

Once this is done, you'll need to re-establish the current session using enable-psSession with the new credentials.

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Given the historical that Microsoft and open source don't go along well, this release of Windows 10 for IoT devices is surely appreciable.

I hope you found this how-to guide on installing Windows 10 IoT on Raspberry Pi 2 helpful. If you faced any problem, tell us in comments. If you've made some cool project or intend to make one in future using the Raspberry Pi 2, do tell us, we'll be happy to feature it.

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✎ fossBytes co-founder and an entrepreneur who writes how-to articles and is in love with budding technologies. He is a tech-enthusiast and a guy who loves to play games and have a good time with his friends!

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FYI: You can download Windows 10 ADK on Windows 8.1 to use that version of the dism.exe (make sure you navigate to the new DISM.exe location that is in "C:\Program Files (x86)\Windows Kits\10\Assessment and Deployment Kit\Deployment Tools\amd64\DISM" and use the command without the hassle of downloading Windows 10 Preview on an actual machine. Saves a lot of time

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Thanks a lot for the insight and tip, much appreciated. But, running Windows on Raspberry Pi is a whole different thing.

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