

### <u>Ubuntu 12.04 Installation for</u> <u>Virtual Machine Manual</u>

Version:1.0

2015.09

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#### Ubuntu 12.04 Installation for Virtual Machine Manual

FCHNOLOGY

Version Record

| Version | Date     | Modified Content | Revisor |
|---------|----------|------------------|---------|
| v1.0    | 2015-9-9 | First Version    | Wangwx  |



#### Ubuntu 12.04 Installation for Virtual Machine Manual

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### I .Preparation

One copy of [VMware-workstation-full-9.0.2-1031769.exe]; A serial number

[ubuntu-12.04.1-desktop-i386.iso] system DVD image

### II. Install VMware-workstation-full-9.0.2-1031769

Install [VMware-workstation] ,then press [Next Step].

**Step 1:** Double-click the installation file, the installation program needs a period of time for processing, after processing, pops up the following window, click the "next".



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#### Step 2: Select [Typical]

| VMware Workstation Setup  | ] |
|---|---|
| Setup Type<br>Choose the setup type that best suits your needs.   |   |
| <b>Typical</b><br>Typical program features will be installed.   |   |
| <b>Custom</b><br>Choose which program features you want installed and where they will be installed. Recommended for advanced users. | 2 |
| < <u>B</u> ack <u>N</u> ext > Cancel  |   |

Step 3: Select installation path , the default disk is C. Here , we select Disk D.

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|               |   |                                |                            |            |                      |                     |                 | _ |
|---------------|---|--------------------------------|----------------------------|------------|----------------------|---------------------|-----------------|---|
|               | VMware  | e Workstatio                   | n Setup                    |            |                      |                     |                 |   |
|               | Destir<br>Click   | Next to install t              | r<br>to this folder or     | click C    | Change to install to | a different folder. |                 |   |
|               | F   | Install VMware<br>D:\VMware-9. | : Workstation to<br>0      | <b>)</b> : |                      |                     | Change          |   |
|               |   |                                |                            |            |                      |                     |                 |   |
|               |   |                                |                            |            |                      |                     |                 |   |
|               |   |                                |                            |            |                      |                     |                 |   |
|               |   |                                |                            |            | < <u>B</u> ack       | <u>N</u> ext >      | Cancel          |   |
| Step 4: To sa | we time,  | we did not c                   | heck updatir               | ng sta     | ıtus.                |                     | 10 <sup>2</sup> | _ |
|               | VMware  | e Workstatio                   | n Setup                    |            |                      |                     |                 |   |
| )             | Softw<br>When   | are Update<br>n would you like | <b>s</b><br>to check for u | pdates     | s of your software   | ?                   |                 |   |
|               |   | Check for <u>p</u> rodu        | ct updates on s            | startup    | p                    | fil h v             |                 |   |
|               | When VMware Workstation starts, check for new versions of the application and installed<br>software components. |                                |                            |            |                      |                     |                 |   |
|               |   |                                |                            |            |                      |                     |                 |   |
|               |   |                                |                            |            |                      |                     |                 |   |
|               | Le  | arn More                       |                            |            |                      |                     |                 |   |
|               |   |                                |                            |            | < <u>B</u> ack       | <u>N</u> ext >      | Cancel          |   |
|               |   |                                |                            |            |                      |                     |                 | - |

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**Step 5:** We don't improve here.

| VMware Workstation Setup   |                                 |       |
|--|---------------------------------|-------|
| User Experience Improvement<br>Would you like to send feedback to VM | Program<br>Iware?               |       |
| Help improve VMware Workstation                                      | 1                               |       |
| Send anonymous system data and                                       | usage statistics to VMware.     |       |
|  |                                 |       |
|  |                                 |       |
|  |                                 |       |
|  |                                 |       |
|  |                                 |       |
| Learn More   |                                 |       |
|  | < <u>B</u> ack <u>N</u> ext > C | ancel |
|  | . O <sup>v</sup>                |       |

Step 6: Select the saved location, select all .

| VMware Workstation Setup                               |                                |
|--|--------------------------------|
| Shortcuts<br>Select the shortcuts you wish to place on | n your system.                 |
| Create shortcuts for VMware Worksta                    | ation in the following places: |
| ✓ Desktop  |                                |
| ☑ <u>S</u> tart Menu Programs fol                      | der                            |
|  |                                |
|  |                                |
|  |                                |
|  |                                |
|  |                                |
|  | < Back Next > Cancel           |

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**Step 7:** All of the option configurations be selected, select [Continue].

| -               |   |  |
|-----------------|---|--|
|                 | VMware Workstation Setup  |  |
| ,               | Ready to Perform the Requested Operations   |  |
|                 | Click Continue to begin the process.  |  |
|                 | If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.                 |  |
|                 |   |  |
|                 |   |  |
|                 |   |  |
|                 | < <u>B</u> ack Continue Cancel  |  |
| Step 8: The ins | stallation process needs time, please wait.   |  |
|                 | VMware Workstation Setup  |  |
|                 | Performing the Requested Operations   |  |
|                 | Please wait while the wizard performs the requested operation. This may take several minutes.                                   |  |
|                 | Status: Installing and configuring additional component<br>C:\Users\11601\AppData\Local\Temp\vmware_1441699321\vcredist_x86.exe |  |

<<u>B</u>ack <u>N</u>ext > Cancel

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Step 9: Input serial number, here is the SN:[ NY0K2-2ULDJ-LZUP1-MV154-8363F]

| Enter License Key         (optional) You can enter this information later.         License Key: (XXXX-XXXX-XXXXX-XXXXX)         Image: State of the state of |
|---|
| License Key: (XXXX-XXXX-XXXX)         License Key: (XXXX-XXXX-XXXX)         Enter >   |
| Enter > Skip >  |
| <u>Enter &gt; Skip &gt;</u>   |
| <u>Enter &gt;</u>   |
| <u>Enter &gt;</u>   |
| <u>Enter</u> > <u>Skip</u> >  |
|   |
|   |
| 有安装步骤完成,选择 Finish 完成安装  |
| e installation steps, select [Finish] to close installation.  |

Step 10: 所有安装步骤完成,选择 Finish 完成安装

Finish all the installation steps, select [Finish] to close installation.

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**Step 11:** Finish installation , double-click the program icon on desktop. Open the program , the first dialog box is the user protocol.

| License Agr<br>Please read   | ement<br>the following license agreement carefully.   | E   |
|--|---|---|
|  | VMWARE, INC.<br>MASTER END USER LICENSE AGREEMENT   |   |
| NOTICE: BY<br>USING THE SO<br>VMWARE MA<br>NOT AGREE T<br>INSTALL, COI<br>UNUSED SOF<br>WITHIN TH.R<br>ANY, ALREAJ<br>THE NATUPA | OWNLOADING AND INSTALLING, COPYING OR OTHER<br>FTWARE, YOU AGREE TO BE BOUND BY THE TERMS OF<br>STER END USER LICENSE AGREEMENT ("EULA"). IF YO<br>O THE TERMS OF THIS EULA, YOU MAY NOT DOWNLO.<br>Y CR USE THE SOFTWARE, AND YOU MAY RETURN TH<br>WARE TO THE VENDOR FROM WHICH YOU ACQUIRED<br>ITY (30) DAYS AND REQUEST A REFUND OF THE LICENSI<br>IV FAID UPON SHOWING ?ROOF OF PAYMENT. "YOU" I<br>L PERSON OR THE ENTITY THAT IS AGREEING TO BE BO | WISE<br>7 THIS<br>U DO<br>AD,<br>1T<br>E FEE, IF<br>MEANS<br>DUND |
| ) Yes, I <u>a</u> ccept<br>No, I <u>d</u> o not a  | he terms in the license agreement<br>ccept the terms in the license agreement   |   |

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### III. New virtual machine

After [vmware] installed , you can create a new virtual machine.

Step 1: Click the content in below red box: Click File->New Virtual Machine...



Step 2: Select [Typical] in dialog box.

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Step 3: Select the third option: I will install the operating system later.

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| New Virtual Machine Wizard  |  |
|---|--|
| Guest Operating System Installation<br>A virtual machine is like a physical computer; it needs an operating<br>system. How will you install the guest operating system? |  |
| Install from:   |  |
| O Installer disc:   |  |
| No drives available   |  |
| Installer disc image file (iso):  |  |
| E:\QY-IMX6S\linux\ubuntu\ubuntu-12.04.1-desktop-i3i v Browse  |  |
| I will install the operating system later.  |  |
| The virtual machine will be created with a blank hard disk.   |  |
|   |  |
| Help         < Back         Next >         Cancel   |  |

**Step 4:** Select operation system type ,select [ubuntu]. Later, [vmware] will install corresponding [vmware-tools].

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| New Virtual Machine Wizard   | ×    |
|--|------|
| Select a Guest Operating System<br>Which operating system will be installed on this virtual machine?   |      |
| Guest operating system          Microsoft Windows         Jinux         Novell NetWare         Sun Solaris         VMware ESX         Other         Version         Ubuntu |      |
| Help         < Back         Next >         Cancel  | el , |
| virtual machine name and installation directory:   | 567  |

**Step 5:** Select the virtual machine name and installation directory:

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| New Virtual Machine Wizard  |  |
|---|--|
| Name the Virtual Machine<br>What name would you like to use for this virtual machine? |  |
| Virtual machine name:   |  |
| Location:   |  |
| G:\ubuntu Browse  |  |
| The default location can be changed at Edit > Preferences.                            |  |
| < Back Next > Cancel  |  |

Step 6: This step will tell you the space for the virtual machine use. Default is 20GB ,here ,we use 50G.

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| New Virtual Machine Wizard   | × |   |
|--|---|---|
| Specify Disk Capacity<br>How large do you want this disk to be?  |   |   |
| The virtual machine's hard disk is stored as one or more files on the host<br>computer's physical disk. These file(s) start small and become larger as you<br>add applications, files, and data to your virtual machine. |   |   |
| Maximum disk size (GB): 50.0 💌   |   |   |
| Recommended size for Ubuntu: 20 GB   |   |   |
| Store virtual disk as a single file  |   |   |
| ○ Split virtual disk into <u>m</u> ultiple files   |   |   |
| Splitting the disk makes it easier to move the virtual machine to another<br>computer but may reduce performance with very large disks.  |   |   |
|  |   |   |
| Help         < Back         Next >         Cancel  |   |   |
|  |   | ~ |

Step 7: It shows some summarizing information, click [Finish] to configure the virtual machine's hardware.

**Step8:** To finish the new virtual machine, come back to the main interface, click the second option [Edit virtual machine settings], then modify the virtual machine setting.

`

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|--------|-------|--------------|-----|---------|---------|--------|
|        |       |              |     |         |         |        |



**Step 9:** Set the network as [Bridged] mode. So the virtual machine and Windows computer could be regarded as two computer in network structure. In order to visit the network successfully, you should adopt different settings base on different network environment.

If your PC is same as me which mounted on the Router. Don't need to dial up, you can access the network directly. And you also can obtain IP address from DHCP, set it as Bridged mode.

If you need dialing at native computer to access Internet, then you need to set it as NAT mode, to let it visit net through host machine. You can set it as Bridged mode when you need to mount the network file system in future.

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| Virtual Machine Settings   | 5   | ×  |
|--|---|--|
| Hardware Options   |   |  |
| Device<br>Memory<br>Processors<br>Hard Disk (SCSI)<br>CD/DVD (IDE)<br>Sound Card<br>Printer<br>Display | Summary         1 GB         1         50 GB         Using file E:\QY-IMX6S\linux\ubu         NAT         Present         Auto detect         Present         Auto detect | Device status Connected Connect at power on Network connection Bridged: Connected directly to the physical network Replicate physical network connection state NAT: Used to share the host's IP address Host-only: A private network shared with the host Custom: Specific virtual network VMnet0 (Auto-bridging) LAN segment: LAN Segments Advanced |
|  | Add Remove  |  |
|  |   | OK Cancel Help   |

Step 10: First is memory, suggest to set it above [1G], no less than 512M. Here I used [1G]

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|--------|-------|--------------|-----|---------|---------|--------|--|
|--------|-------|--------------|-----|---------|---------|--------|--|

| Virtual Machine Settings | 5  | <b>X</b>  |
|--------------------------|--|---|
| Device                   | Summary 1 GB 1 50 GB Auto detect Auto detect Bridged (Automatic) Present Auto detect Present Auto detect Auto detect | Memory<br>Specify the amount of memory allocated to this virtual<br>machine. The memory size must be a multiple of 4 MB.<br>Memory for this virtual machine: 1024 m MB<br>64 GB -<br>32 GB -<br>16 GB -<br>8 GB -<br>4 GB -<br>2 GB -<br>1 024 MB<br>1 024 MB |
|                          | Add Remov  | e   |
|                          |  | OK Cancel Help  |

**Step 11:** Disk, if you use ISO file installation system. You need to set it as picture. And need to appoint it to ISO path. If you use the physical dis, you should use the above option.

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|--------|-------|--------------|-----|---------|---------|--------|
|        |       |              |     |         |         |        |

| /irtual Machine Setting  | s  | ×  |
|--|--|--|
| Hardware Options   |  |  |
| Hardware Options Device Memory Processors Hard Disk (SCSI) CD/DVD (IDE) Floppy Network Adapter USB Controller Sound Card Printer Display | Summary 1 GB 1 50 GB Auto detect Auto detect Bridged (Automatic) Present Auto detect Present Auto detect Auto detect Present Auto detect | Device status Connected Connect at power on Connection Use physical drive: Auto detect  Use ISO image file: Duntu-12.04. 1-desktop-i386.iso Advanced |
|  | Add Remove   |  |
|  |  | OK Cancel Help   |

Setp12: Soft Disk, normally, don't need it. Click [Remove].

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|--|--------|-------|--------------|-----|---------|---------|--------|
|--|--------|-------|--------------|-----|---------|---------|--------|

| Virtual Machine Setting | S  | <b>x</b>  |
|-------------------------|--|---|
| Hardware Options        | Summary<br>1 GB<br>1<br>50 GB<br>Using file E:\QY-IMX6S\Jinux\ubu<br>Auto detect<br>Present<br>Auto detect<br>Present<br>Auto detect | Device status Connected Connection Use physical drive: Auto detect Use floppy image file: Create Browse Read-only |
|                         | Add Remove   |   |
|                         |  | OK Cancel Help  |

After configuration, click [OK], back to main interface.

# IV.Install ubuntu-12.04 Operation System in Virtual Machine

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**Step 1:** Click the first option [Power on this virtual machine] on main interface, boot virtual machine. It regards as pressing on power.



Step 2: As there is no installation system in virtual machine hard disk, so it boots from disk after BIOS.

After showing [ubuntu], it starts system installation. Select language in first interface, here ,I select Chinse simplified, then click[install ubuntu].

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| 🗾 Ubuntu - VMware Wo                           | rkstation – 🗆 🗙   |
|--|---|
| File Edit View VM                              | Tabs Help<br>S 🖓 🗈 🚍 🖼 🦏 🛙 📼  |
| 🔓 Home 🗙 🕞 Ubun                                | tu X  |
|  | 💦 📟 🛊 🐠 共   |
|  |   |
| 😣 安装   |   |
| 欢迎   |   |
| বাংলা  |   |
| ਪੰਜਾਬੀ   |   |
| ગુજરાતી  |   |
| தமிழ்  |   |
| తెలుగు   |   |
| ಕನ್ನಡ  |   |
| <u> </u>                                       |   |
| กาษาไทย  | 试用 Ubuntu 安装 Ubuntu   |
| ລາວ  | 你可以去找出出。co光光出。  |
| 한국어  | 您可以直接从此 CD 尝试 Obuncu, 而不用对 您的 电脑 作任何更改。   |
| 中文(简体)   | 如果您已经准备完毕,您可以与现有系统并存(或者替代)方式将 Ubuntu 安装到您的电脑上。此过程无需耗时太久。  |
| 中文(紫檀)<br>日本語                                  |   |
|  |   |
|  |   |
| Click in the virtual screen to send keystrokes | Install Ubuntu as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing". |
| To direct input to this VM                     | I, click inside or press Ctrl+G. 📮 😪 🖃 😓 🥠 📨 🖙  |

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Step 3: Don't tick these two options, click [continue].

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| Ubuntu - VMware Workstation   |      | x |
|---|------|---|
| <u>File Edit View VM I</u> abs <u>H</u> elp                                   |      |   |
|   |      |   |
| Ame × Butu ×  |      |   |
|   | ∎ນ)) | 관 |
|   |      |   |
| ⊗ 安装  |      |   |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~   |      |   |
| 准备女装 UDUNCU   |      |   |
| 西苏得马住的体验 海路史这么计算机,  |      |   |
| 安然侍取住的冲湿, 喇叭走达百时异仇 ·  |      |   |
| ▲ 有至少 4.4 GB 可用的磁盘空间  |      |   |
|   |      |   |
|   |      |   |
| ✓ 已经连接到互联网  |      |   |
| □ 安装中下载更新   |      |   |
|   |      |   |
| Ubuntu使用第三方的软件处理 Flash、MP3 等媒体文件,驱动一些无线设备。这其中有一些软件是闭源的。这<br>软件受软件文档附带的许可协议限制。 | 生些   |   |
|   |      |   |
| □ 安装这个第三方软件   |      |   |
| Fluendo MP3 插件包含 Fraunhofer IIS 和 Technicolor SA 授权的 MPEG Layer-3 音频解码技术。     |      |   |
| 退出(Q) 后退(B) 继续  |      |   |
|   |      |   |
| To direct input to this VM, click inside or press Ctrl+G.                     |      |   |

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**Step 4:** Use whole disk ,don't worry. This disk ,it means the VMDK file which the virtual machine created. It will not affect your physical disk.

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#### Step 5: Click to install.

| 📴 Ubuntu - VMware Workstation  |      |
|--|------|
| <u>F</u> ile <u>E</u> dit <u>V</u> iew V <u>M</u> <u>T</u> abs <u>H</u> elp  |      |
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| Aome × Bubuntu ×   |      |
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|  |      |
|  |      |
| ⊗ 安装   |      |
|  |      |
| 有际整个磁盘开安装 UDUNCU   |      |
|  |      |
| 选择磁盘: SCSI3 (0,0,0) (sda) - 53.7 GB VMware, VMware Virtual S 🔹   |      |
| 何店田教办理会。   |      |
| 行使用整个磁盘 -  |      |
|  |      |
| Ibustu   |      |
| /dev/sda (ext4)  |      |
| 53.7 GB  |      |
|  |      |
|  |      |
|  |      |
|  |      |
|  |      |
|  | 1999 |
| Click in the virtual screen to send keystrokes Install Ubuntu as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing". | ×    |
| To direct input to this VM, click inside or press Ctrl+G. 🔤 😭 🕞 🧐 🚔 🐠 词 📷  | 1    |

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Step 6: Select time zone.



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Step 7: Keyboard



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**Step 8:**Create user, and set password. Different with the old release version, [ubuntu] does not set in root user. The user is not root user, and it is without root's permission.

| 📴 Ubuntu - VMware Workstatio  | n   |  |                    | X  |
|---|---|--|--------------------|--|
| File Edit View VM Iabs  | : <u>H</u> elp                                  | 6  |                    |  |
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|   |   |  |                    |  |
| 安装  |   |  |                    |  |
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| 心定唯?  |   |  |                    |  |
|   |   |  |                    |  |
|   | 您的姓名:   | ubuntu   |                    | <b>√</b>   |
|   | 您的计算机名:   | ubuntu-virtual-machine   | 1                  |  |
|   | 校 人口古人。   | 与其他计算机联络时使用的名称。  |                    |  |
| 120   | <u>择一个用尸名</u> :                                 |  | -                  |  |
|   | 选择一个密码:   | 00000  | ○ 密码强度:合理          |  |
|   | 确认您的密码:   | 000000   |                    |  |
|   |   | ○ 自动登录   |                    |  |
|   |   | 豆求可需要密码  |                    |  |
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| Click in the virtual screen Instal operation of the send keystrokes | l Ubuntu as you would<br>ating system boots up, | on a physical computer. When yo<br>dick "I Finished Installing". | u are done and the | I Finished Installing Help   |
| To direct input to this VM, click i                                 | nside or press Ctrl                             | +G.  |                    | in the second se |

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Step 9: The installation process is long, please be patient.



**Step 10:** You will need to download something from Internet when in installation process. Please make sure the network is normal.

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**Step 11:** Finish installation , re-boot virtual machine system.



**Step 12:** Click [VM->Setting], if there are difficulties, you can't find out the mouse. You can use [Ctrl+ALT] to release the mouse from virtual machine.

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Step 13: Set the Disk as the below picture shown, or clear ISO path. Click [OK].

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|  | Ubuntu | 12.04 | Installation | for | Virtual | Machine | Manual |
|--|--------|-------|--------------|-----|---------|---------|--------|
|--|--------|-------|--------------|-----|---------|---------|--------|

| 📴 Ubuntu - VMware Wor  | rkstation  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|
| File Edit View VM  | Tabs Help  |  |  |  |  |  |  |  |  |  |
| Home Lyce Lyce   |  |  |  |  |  |  |  |  |  |  |
|  | Options  |  |  |  |  |  |  |  |  |  |
| <ul> <li>Pow</li> <li>Pow</li> <li>Device</li> <li>Memorial Proces</li> <li>Hard D</li> <li>CD/DV</li> <li>Men</li> <li>Netwo</li> <li>CD/I</li> <li>Metv</li> <li>CD/I</li> <li>Display</li> <li>Print</li> <li>Disp</li> <li>Descr</li> <li>Type he this virtue</li> </ul> | Summary       ry     1 GB       ssors     1       Disk (SCSI)     50 GB       /D (IDE)     Using file E:\QY-IMX6S\inux\ubu       ork Adapter     NAT       ontroller     Present       il Card     Auto detect       r     Present       y     Auto detect | Device status<br>Connected<br>Connection<br>Ouse physical drive:<br>Auto detect<br>Use ISO image file:<br>E:\QY-IMX6S\\inux\ubuntu\ubun \rightarrow Browse<br>Advanced |  |  |  |  |  |  |  |  |
|  | Add Remove   | OK Cancel Help   |  |  |  |  |  |  |  |  |
| State: Powered off<br>Configuration file: G:\ubuntu\Ubuntu.vmx<br>Hardware compatibility: Workstation 9.0 virtual machine  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

Step 14: Rebooting, then click your user name, input password to enter into system.

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| 📴 Ubur                      | ntu - VMware Work     | kstation                |                              |                       |               |            |           |       |         |       |      |             |               | □ ×       |
|-----------------------------|-----------------------|-------------------------|------------------------------|-----------------------|---------------|------------|-----------|-------|---------|-------|------|-------------|---------------|-----------|
| File Edit View VM Tabs Help |                       |                         |                              |                       |               |            |           |       |         |       |      |             |               |           |
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| Home × Dubuntu ×            |                       |                         |                              |                       |               |            |           |       |         |       |      |             |               |           |
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|                             | ubuntu                |                         |                              | 0                     |               |            |           |       |         |       |      |             |               |           |
|                             | (La company)          |                         | _                            | _                     |               |            |           |       |         |       |      |             |               |           |
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|                             | 安人会话                  |                         |                              |                       |               |            |           |       |         |       |      |             |               |           |
| e                           | тЛХИ                  |                         |                              |                       |               |            |           |       |         |       |      |             |               |           |
| 6 - A                       |                       |                         |                              |                       |               |            |           |       |         |       |      |             |               |           |
|                             |                       |                         |                              |                       |               |            |           |       |         |       |      |             |               | 4         |
|                             |                       |                         |                              |                       |               |            |           |       |         |       |      |             |               | 8         |
| ι                           | ubuntu <sup>®</sup> 1 | 2.04 LT                 | S                            |                       |               |            |           |       |         |       |      |             |               |           |
|                             |                       |                         |                              |                       |               |            |           |       |         |       |      |             |               |           |
| Click                       | in the virtual screen | VMware Too              | ls enables i                 | many fea              | tures and im  | iproves m  | ouse      |       |         | - 1   |      |             |               |           |
| to se                       | end keystrokes        | movement,<br>system and | video and p<br>click "Instal | erforman<br>I Tools". | nce. Log in t | o the gues | st operat | ing [ | Install | Tools | Remi | nd Me Later | Never         | Remind Me |
| To direct                   | t input to this VM,   | click inside            | or press                     | Ctrl+G.               |               |            |           |       |         |       | 1    | ي 🕞 📮       |               |           |

**Step 15:** This step is very important, install [vmware-tools]. You can exchange files between virtual machine and host machine, and also can adapt virtual machine resolution. Click [VM->Install Vmware Tools]

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**Step 16:** After clicking, there is a windows opened on virtual machine. The installation file is mounted on virtual machine as DVD.

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**Setp17:** Set [root], close the pop-up windows, input [ctrl + alt + t], open terminal windows.

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#### Step 18:

Input the following command in sequence:

```
ubuntu@ubuntu-virtual-machine:~$ cp /media/VMware\Tools/VMwareTools-9.2.3-1031360.tar.gz .
/* Copy to the current directory*/
ubuntu@ubuntu-virtual-machine:~$ tar -xzvf VMwareTools-9.2.3-1031360.tar.gz
```

/\* Extract\*/

ubuntu@ubuntu-virtual-machine:<sup>~</sup>\$ cd vmware-tools-distrib /\*Enter into directory\*/

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ubuntu@ubuntu-virtual-machine:<sup>~</sup>\$sudo ./vmware-install.pl -d /\*Use default option to install\*/

ubuntu@ubuntu-virtual-machine:<sup>~</sup>\$cd.. /\*Back to upper directory\*/

ubuntu@ubuntu-virtual-machine:<sup>~</sup>\$ rm -rf vmware-tools-distrib /\*Delete folder\*/

ubuntu@ubuntu-virtual-machine:~\$ sudo reboot /\*Reboot virtual machine\*/

Step: Network Setting [settings--->network--->bridged--->ok]



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| 🔁 Ubuntu - VMware Workst   | ation   |  |
|--|---|--|
| File Edit View VM T  | abs Help<br>රු 🗈 🖃 🗮 🍓  |  |
| Hon Virtual Machine Set  | tings   |  |
| Ubunt Hardware Options   |   | u \$\$   |
| Device<br>Memory<br>Processors<br>Hard Disk (SCS<br>CD/DVD (IDE)<br>Network Adap<br>USB Controller<br>Sound Card<br>Printer<br>Display | Summary  I GB  I SD GB Auto detect  Present Auto detect Present Auto detect | Device status Connected Connect at power on Network connection Bridged: Connected directly to the physical network Replicate physical network connection state NAT: Used to share the host's IP address Host-only: A private network shared with the host Custom: Specific virtual network VMnet0 (Auto-bridging) LAN segment: LAN Segments Advanced |
|  | Add Remove  |  |
|  |   | OK Cancel Help   |
| To direct input to this VM, cl   | ck inside or press Ctrl+G.  |  |

Step 19: Set fixed ip, click the upper left button, select system setting.

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Step 20: Select network, click option.

|   | di anti anti    |          |         |              | 🖂 🛊 🕕 1 | 5:50 👤 ubuntu 🔱 |
|---|-----------------|----------|---------|--------------|---------|-----------------|
| 0 | 全部设置(A)         |          |         |              |         | Q               |
|   | ▲ 个人            |          |         |              |         |                 |
|   | U               |          |         |              |         |                 |
|   | Ubuntu One      | 键盘布局     | 亮度和锁屏   | 外观           | 隐私      | 语言支持            |
|   | ▲ 硬件            |          |         |              |         |                 |
|   | -               |          |         |              |         | *               |
|   | Wacom 图形<br>手写板 | 打印       | 电源      | 附加驱动         | 键盘      | 蓝牙              |
|   |                 |          |         |              |         |                 |
|   | *               |          | Ŭ       |              |         |                 |
|   | 色彩              | 声音       | 鼠标和触摸板  | 网络           | 显示      |                 |
|   | ③ 系统            |          |         |              |         |                 |
| - | $\bigcirc$      | <b>?</b> | $\odot$ | $\mathbf{x}$ | Ś       | 28              |
|   | Management      | 备份       | 日期和时间   | 通用辅助功能       | 详细信息    | 用户账户            |

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**Step 21:** Select [IPv4 Settings] in pop-up interface, modify self-motion to manual operation, click [Add] to add the modified IP. Click [Save] . (DNS could be configured base on PC)

| 网络连接         |                           |                   |           |             |             | ) 🖂 🐧 | ↓ •)) | 15:55 🔰 | Lubuntu 🔾 | ¥  |
|--------------|---------------------------|-------------------|-----------|-------------|-------------|-------|-------|---------|-----------|----|
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|              | 1〕 有线                     | 连接名称(N):          | Wire      | d connectio | n 1         |       |       | 1       | 开启        |    |
|              | 🛃 网络代理                    | ☑ 自动连接(4          | <b>A)</b> |             |             |       |       |         |           |    |
|              |                           | 有线 802.1)         | 安全性       | IPv4 设置     | IPv6 设置     |       |       |         |           |    |
| >_           |                           | 方法(M):            | 手动        |             |             |       | ▼     |         |           |    |
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|              |                           | DNS 服务            | 器:        | 222.46.12   | .0.5        |       |       |         |           |    |
|              |                           | 搜索域(E)            | :         |             |             |       |       |         |           |    |
|              |                           | DHCP客户            | 端 ID:     |             |             |       |       |         |           |    |
|              |                           | □ 需要 IF           | v4地址      | 完成这个连挂      | 妾           |       |       |         |           |    |
| A            |                           |                   |           |             |             | 路由(R  | )     |         | 选项(O)     |    |
|              | + -                       | ☑ 对所有用户           | 可用        |             | 取消(C)       | 保存    | ₹(S)  |         |           |    |
| o direct inp | ut to this VM, move the r | mouse pointer ins | ide or pr | ess Ctrl+G. |             |       |       |         | 0) 🔤 🔛    | h. |

### V.Configure ubuntu-10.10 development environment, install

### the necessary software package

#### Step1 : Source List Updates

[ubuntu@ubuntu-virtual-machine:<sup>~</sup>\$ sudo apt-get install vim]

[ubuntu@ubuntu-virtual-machine: `\$ sudo vi /etc/apt/sources.list]

Input the following list in opened file.

deb http://mirrors.163.com/ubuntu/ precise main restricted

deb-src http://mirrors.163.com/ubuntu/ precise main restricted

deb http://mirrors.163.com/ubuntu/ precise-updates main restricted

deb-src http://mirrors.163.com/ubuntu/ precise-updates main restricted

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deb http://mirrors.163.com/ubuntu/ precise universe deb-src http://mirrors.163.com/ubuntu/ precise universe deb http://mirrors.163.com/ubuntu/ precise-updates universe deb-src http://mirrors.163.com/ubuntu/ precise-updates universe deb http://mirrors.163.com/ubuntu/ precise multiverse deb-src http://mirrors.163.com/ubuntu/ precise multiverse deb http://mirrors.163.com/ubuntu/ precise-updates multiverse deb-src http://mirrors.163.com/ubuntu/ precise-updates multiverse deb http://mirrors.163.com/ubuntu/ precise-backports main restricted universe multiverse deb-src http://mirrors.163.com/ubuntu/ precise-backports main restricted universe multiverse deb http://mirrors.163.com/ubuntu/ precise-security main restricted FCHNOLOG deb-src http://mirrors.163.com/ubuntu/ precise-security main restricted deb http://mirrors.163.com/ubuntu/ precise-security universe deb-src http://mirrors.163.com/ubuntu/ precise-security universe deb http://mirrors.163.com/ubuntu/ precise-security multiverse deb-src http://mirrors.163.com/ubuntu/ precise-security multiverse deb http://extras.ubuntu.com/ubuntu precise main deb-src http://extras.ubuntu.com/ubuntu precise main

As below picture

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Save, then exit

[ubuntu@ubuntu-virtual-machine:~\$ sudo apt-get update]

**Step2:** After updating , install the necessary software.

ubuntu@ubuntu-virtual-machine:~\$ sudo apt-get install build-essential

ubuntu@ubuntu-virtual-machine:~\$ sudo apt-get install libncurses5-dev

ubuntu@ubuntu-virtual-machine:~\$ sudo apt-get install bison

ubuntu@ubuntu-virtual-machine:~\$ sudo apt-get install flex

ubuntu@ubuntu-virtual-machine:~\$ sudo apt-get install gettext

ubuntu@ubuntu-virtual-machine:~\$ sudo apt-get install texinfo

ubuntu@ubuntu-virtual-machine:~\$ sudo apt-get install subversion

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### **VI. Configure NFS Service**

NFS( Network File System), you can share several mainframe (different OS) by network-----use NFS to mount remote mainframe's directory. Visit this directory ,just like to visit local directory!( Root user operate as belows)

1、 Install NFS server-side and client-side.

ubuntu@ubuntu-virtual-machine:~\$sudo apt-get install nfs-kernel-server nfs-common portmap

Hint whether to continue : Y

Do you want to continue [Y/n]? Y

To do NFS test on local machine by using client-side.

3、 Configure mounted directory and permission

Create [/nfs]directory.

[ubuntu@ubuntu-virtual-machine:~\$cd /]

[ubuntu@ubuntu-virtual-machine:~\$ sudo mkdir /work]

Then modify [nfs] configuration

[ubuntu@ubuntu-virtual-machine:~\$sudo gedit /etc/exports]

Add the following content at end.

/home/ubuntu/work \*(rw,sync,no\_root\_squash) //work , the shared directory

4 Reboot NFS service

[ubuntu@ubuntu-virtual-machine:~\$ sudo /etc/init.d/nfs-kernel-server restart]

5、Test NFS

Try to mount local disk, mount [/nfs] to [/mnt]

[ubuntu@ubuntu-virtual-machine:~\$ mount -t nfs 192.168.1.184:/home/ubuntuwork mnt/]

[/\*192.168.1.184 Your IP\*/]

Run[df] to check result:

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[ubuntu@ubuntu-virtual-machine:~\$df]

[192.168.1.184:/work 51275648 3691008 45015552 8% /mnt]

It has been mounted successfully, test ok. Then uninstall it.

[ubuntu@ubuntu-virtual-machine:~\$ umount /mnt]

Next, you can test ubuntu server on development board, normally, it could be mounted successfully in local machine. If IP is no limitation, the development board's mount could also be successful. If it still has issues, please check ubuntu firewall setting. Use the following command to close firewall, then try to mount again:

[ubuntu@ubuntu-virtual-machine:~\$ sudo ufw disable] if the development board can't mount ubuntu server.

### VII. Configure samba service

1. Install samba service

[ubuntu@ubuntu-virtual-machine:~\$ sudo apt-get install samba]

[ubuntu@ubuntu-virtual-machine:~\$ sudo apt-get install smbfs]

#### 2、Edit [/etc/samba/smb.conf] configuration file.

[ubuntu@ubuntu-virtual-machine:~\$ sudo vi /etc/samba/smb.conf]

- (1) Remove [#] from the [security=user].
- (2) Add at end.

[share]

comment = Home Directories

path = /home/ubuntu/samba

available = yes

browseable = yes

read only = no

public = yes

Remark: the red words, here, use absolute path.

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3、Create a user in system setting ,user name [samba].
Set [samba] user setting to [samba] account, and set permission.
ubuntu@ubuntu-virtual-machine:~\$ sudo smbpasswd -a samba
ubuntu@ubuntu-virtual-machine:~\$ mkdir ~/samba
ubuntu@ubuntu-virtual-machine:~\$ chmod 777 ~/samba
4、Reboot [ubuntu samba] server.
ubuntu@ubuntu-virtual-machine:~\$ sudo /etc/init.d/smbd restart
Or use the following command:
ubuntu@ubuntu-virtual-machine:~\$ sudo service smbd stop
ubuntu@ubuntu-virtual-machine:~\$ sudo service smbd restart

5, Visit [ubuntu samba] server.

Input [\\] + [ubuntu IP] in windows folder, for example: [\\192.168.1.184]

Enter into the folder ,you can see the shared directory [share], in this way, you can share file folder between PC and virtual machine.

As shown:



### IX. Conclusion

Till now, the development environment server has been constructed well. The development board's testing,

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please refer to [Linux User Manual ]. If there is any issue , please contact us.

Thanks for using Qiyang mainboard.

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