

# HTTP network boot to install the original system ISO image

weixin\_33919950 Posted on 2017-11-14 16:39:00 Read 2.1k Collection 6 Likes

Copyright CC 4.0 BY-SA

**摘要** This article introduces a simple method to install the operating system over the network without a USB flash drive and complex configuration. Using TinyPXEServer and iPXE, you only need to connect the network cable to start the original system installation, and support UEFI network boot.

The summary is generated in C Know , supported by DeepSeek-R1 full version, go to experience>

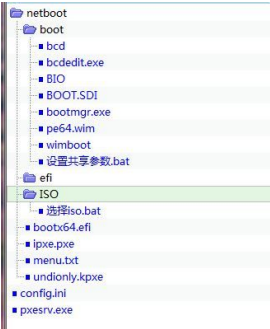
Original text: [http://tieba.baidu.com/p/2953513275?red\\_tag=z1674516395&traceid=](http://tieba.baidu.com/p/2953513275?red_tag=z1674516395&traceid=)

- No USB flash drive is required, no file sharing is required, no server system configuration is required, and complex WDS is not required.

Just plug in the network cable to install the original system, and it also supports UEFI network boot.

First of all, we need to thank the Tiny PXE Server network boot software developed by erwan in France. With iPXE (a powerful open source network boot firmware), network boot becomes very fool-proof.

Download the unzipped directory:



The main program of the server: pxesrv.exe, click online to run after startup.

The main program configuration file config.ini (the parameters set in it will automatically configure the main program when it starts)

The netboot directory is the network startup root directory specified by the root parameter in config

ipxe.pxe and undivided.kpxe are startup files. According to the experience of testing, sometimes the other has better compatibility, and sometimes the other is faster. Test it yourself.

The startup file will call the menu.txt menu to start.

The boot directory stores the pe startup image:

the first use of running the shared parameter setting batch in the boot directory is used to pass the computer name to the client after the network startup, so if the computer name is changed in the future, you must re-run this batch

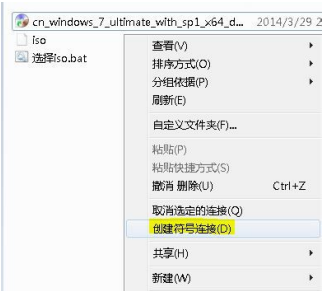
efi directory: some fonts required for UEFI startup

The entire network startup directory can be moved arbitrarily, with a high degree of freedom. It can be put into a USB flash drive. Don't forget to set the shared parameters after starting it on another machine.

The ISO directory stores the original image:

After putting in the image, run and select iso batch processing. Select the original system you want to install. After the batch processing runs, an iso file without a suffix will be generated. After the client starts, it will get this file to know which ISO you selected.

If you don't want to move the location where your original ISO is stored and don't want to waste space copying ISO, it is recommended to install HardlinkShell to create a symbolic link



This kind of network startup pe installation system network card driver is very important.

8.1pe itself comes with almost all the common network card drivers before 8.1 was released, and it has been half a year. We are worried that some new network cards may not be recognized, so we collected some of the latest network card drivers and packed them into pe. If the network card cannot be recognized by the original version, the driver package will be automatically installed.

It is made based on the official 8.1 original 64-bit PE, without streamlining, and supports DISM integrated RAID driver, official program package, etc.

It does not support the installation of 32-bit original images.

Since the official original 64-bit PE does not support 32-bit programs, it does not support the installation of official 32-bit ISO.

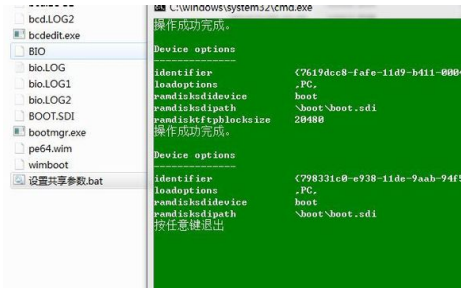
In fact, I have used UltraISO, reshacker, etc. to automatically determine the bit number of iso to start the corresponding pe. You can see and choose iso batch processing. Later, I thought that 64-bit pe can restore 32 images. Forget it, it's better to keep it simple.

If you need to install a 32-bit image, you can replace the 32-bit install.wim in the 64-bit iso to choose network startup.

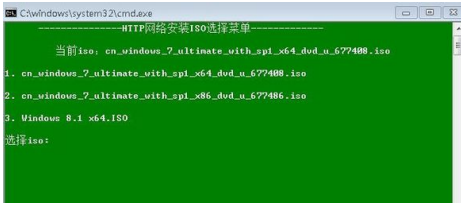
Similarly, the installation of the all-in-one image made by netizens also needs to be based on a 64-bit CD-ROM

. Graphic steps:

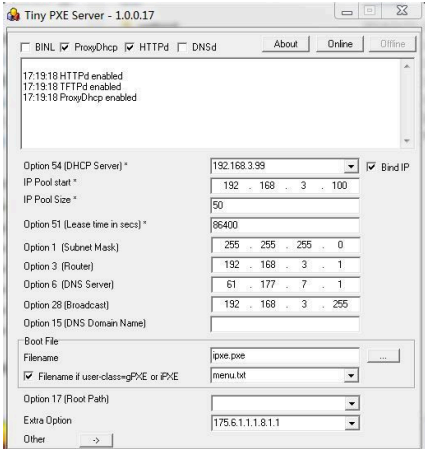
Sharing parameters need to be set for the first use or when the computer name changes



Select ISO menu on the server



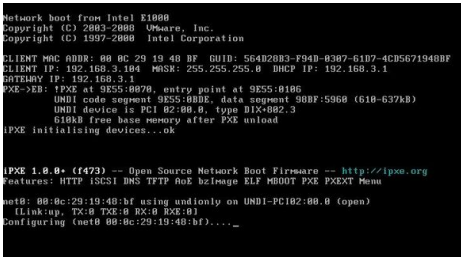
Run the main program, click online to go online, no complicated settings.



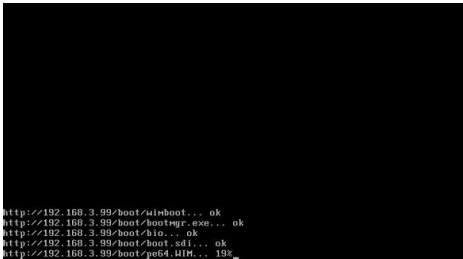
Turn on the client and press the BIOS boot menu key to select the network card to start. Some motherboards need to enable PXE rom in the BIOS.



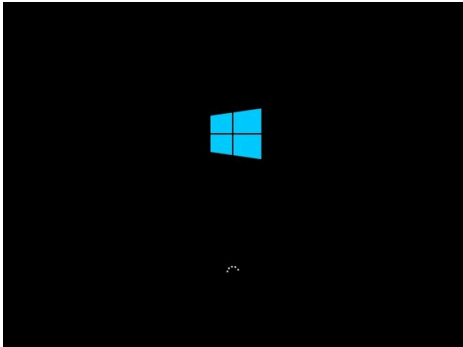
Get ipxe from the server and start booting



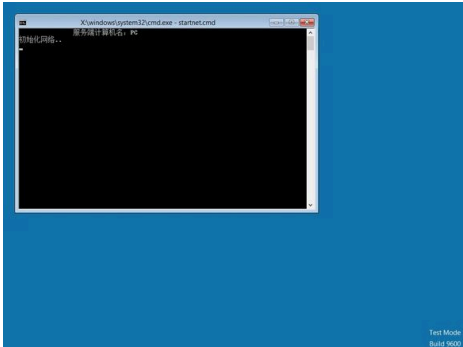
HTTP full-speed transmission is loaded into memory, and the transmission is wonderful in Gigabit environment



PE Startup



Loading the network



Map iso to the virtual CD-ROM drive from the server and start setup.exe. You will understand the following steps:



UEFI PXE network boot support

Select the boot file bootx64.efi  
UEFI uses the original network boot method

<http://pan.baidu.com/s/1bngUO3d>

This article is transferred from rshare 51CTO blog, original link: <http://blog.51cto.com/1364952/2046686>, if you need to reprint, please contact the original author

Related resources: Network installation of Microsoft original system iso files, http method supports uefi/traditional bios resources...

昇腾算子挑战赛：码力全开，算赢未来  
[点击报名>>](#)

广告

