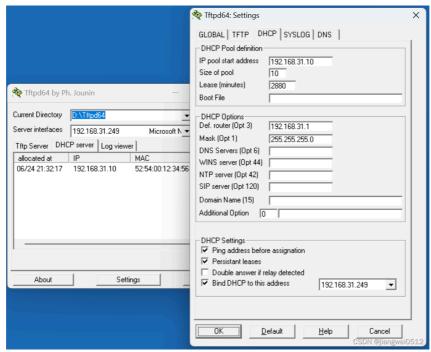
## [UEFI Practice] HttpBoot



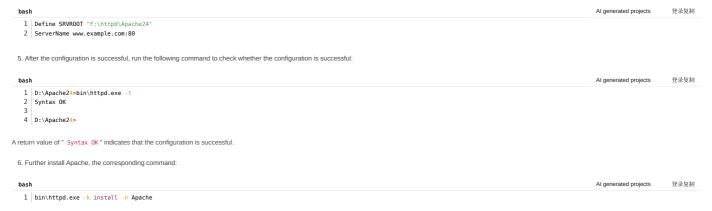
## **Environment Configuration**

- 1. First, download the tftpd tool, which can be downloaded from phjounin/tftpd64/Downloads Bitbucket . It is recommended not to install it on the C drive because you may not be able to modify its configuration.
- Configure the DHCP service of the tftpd tool:

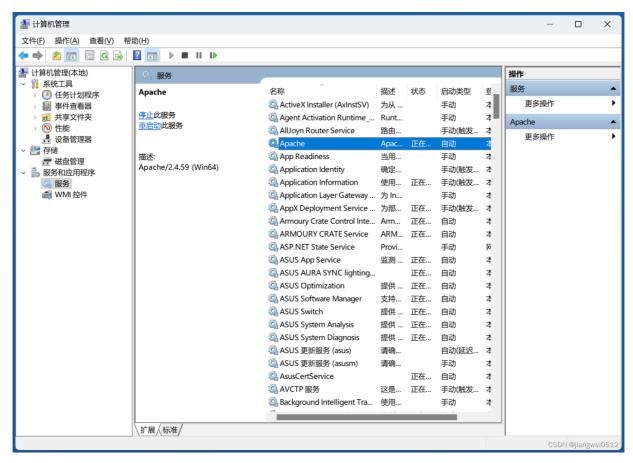


Note that the IP address here needs to match the actual network card IP.

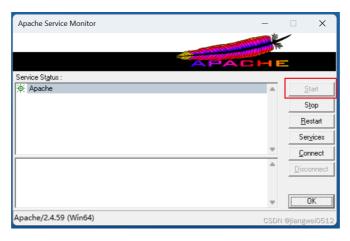
- 3. Download Apache from Apache VS17 binaries and modules download (apachelounge.com). As above, it is recommended not to install it on the C drive.
- 4. To configure Apache, you need to modify the conflhtpd.conf file in the installation directory. The modification points are as follows:



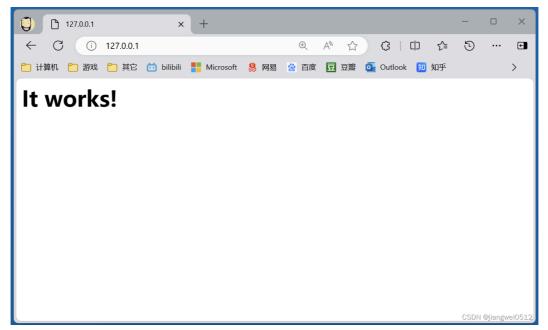
7. After that, you can see Apache in Windows Services:



8. To use the Apache server later, use bin/ApacheMonitor.exe in the installation directory. It is a graphical interface. Open it as follows (you can find it in the taskbar icon. The following figure shows that the Apache server has been opened):



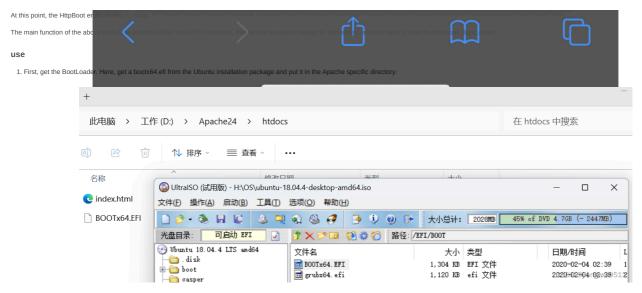
After opening, you can access it through the browser:



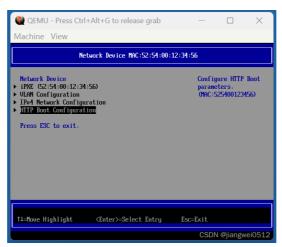
If " It works!" is displayed, it means that the Apache service is working properly. Note that the address here is 127.0.0.1, because it is accessed locally. If it is accessed remotely located can be used, for example:	, the actual IP address of the device where Apache is
Totaled can be does, for example.	



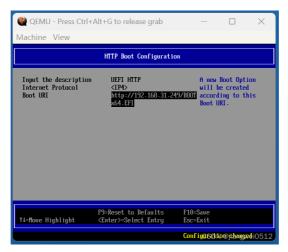
It works!



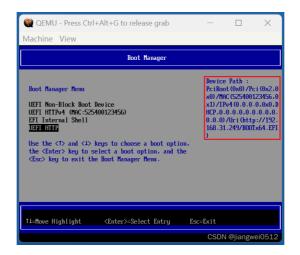
- 2. To compile a BIOS that supports the HttpBoot function, you can download the source code from edk2-beni: Used to learn and verify UEFI BIOS. (gitee.com) NETWORK\_HTTP\_BOOT\_ENABLE and open the compilation macro to enable HttpBoot.
- 3. Start BIOS, enter Setup, select "Device Manager" -> "Network Device List", and select the network card that needs to be started by HttpBoot:



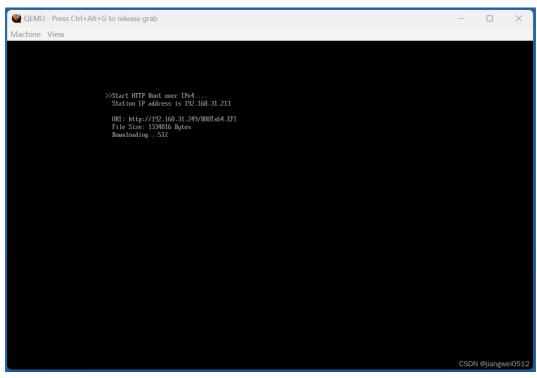
Select HTTP Boot Configuration and enter the URI:



 $After that, save the configuration and return to the {\tt BootManager interface}, where you can see the {\tt HttpBoot just configured:} \\$ 



To enable this configuration item, execute the following:



You can see that bootx64.efi is downloaded and eventually executed, which means that HttpBoot has been successfully started. However, the subsequent operation still depends on the configuration of bootx64.efi, which is not the focus here.

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