Can i use my phone as a wifi repeater

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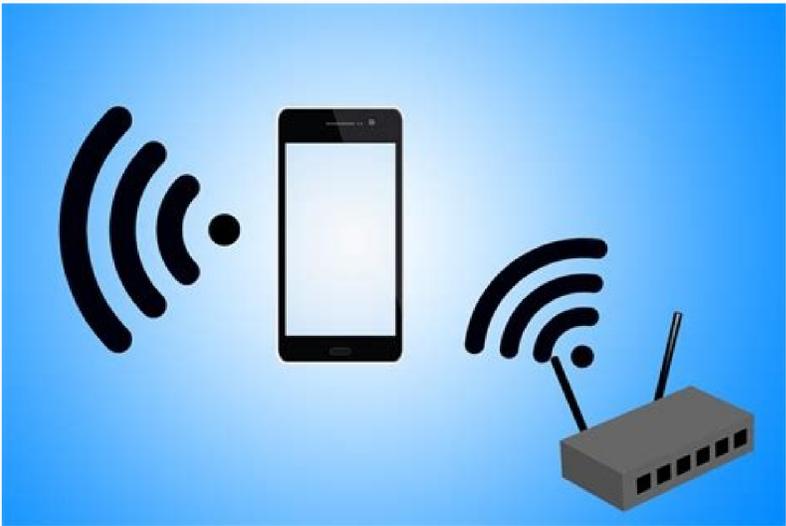
Can i use my phone as a wifi repeater

Can i use my cell phone as a wifi extender. Can i use my android phone as a wifi repeater.

VAP11G-300 is an environmentally safe WiFi bridge signal repeater. Working in WiFi smart bridge mode, can achieve WiFi to Wired or Wired to WiFi function (Ethernet to WiFi or WiFi to Ethernet convert), smart exchange. Adopt D/A Temperature Compensated Auto Frequency Control Technology. the lasting stability ensures that the WiFi signal is not dropped. Working in the repeater mode, VAP11G-300 can be doubled to extend the original WiFi signal coverage, while it can ensure the security of the wireless signal, its working principle is: at the edges of the original WiFi hot spot signal coverage, the VAP11G-300 that in "repeater mode " is able to receive weak WiFi signal, and then zoom in to the normal, safe strength, and after optimization, error correction processing, to achieve signal coverage distance doubled extension under safe. This differs from a traditional wireless signal amplifier - only amplifies the signal and ignores the wireless security. Tips: 1. Support IP and MAC layer transparent transmission as two bridge modes: IP layer transparent transmission (factory default), can meet most of the bridge applications; MAC layer transparent transmission, which can transparent transmission of the MAC layer(link layer) and above layer all data, including IP layer data; MAC transparent transmission can solve some special applications for MAC layer encryption, such as AP managed by AC, GoPro camera, Cisco AP, Hikvision surveillance system, etc. 2. If you want to use Huawei or iPhone as a hotspot for WiFi bridge when you setting, please select "SSID and password match" in the "Advanced Setting" under the upper-level hotspot password. 3. If you encounter frequent disconnection or other problems during use, you can solve the problem by upgrading the software online. 4. This Device can't be plugged into a USB port and DC power source at the same time(Two Types of power supply can't be used at the same time)¼ We are in the Internet of Things (IoT) generation! These days, you can control your home gadgets/devices like air-conditioner, room heater, water heater, etc. remotely from anywhere and the device to do this can easily be built or purchased off the shelf. Over the course, we have also built a few IoT based home automation projects using Arduino, ESP, and Raspberry Pi. But for every Wi-Fi-based IoT-enabled devices, you need an Internet connection or you can say uninterrupted Internet/Wi-Fi connectivity. But using broadband connection has its limitations like sometimes wifi signal drop (especially for 2.4 GHz band, occupied with more interference) from room to room or floor to floor. It is for this reason that wifi repeater or range extenders are required but commercial wifi repeaters available in the market are very costly which is not a feasible option for all. There arises the need for low-cost solutions (less than one third compared to the price of any commercial wifi repeater) only for range-extending. So, today I have shared a solution that quickly builds weekend projects within half an hour. For this, you don't need to build any hardware circuit and you need not be an expert in electronics. Follow the simple steps given below to build your low-cost wifi repeater or range extender. Nodemcu ESP8266 The Nodemcu ESP8266 is the main and only component so, I would like to describe some basic features and specifications too. It is an open-source IoT development platform, a combination of the wifi module and the features of Arduino (Microcontroller). It can also be programmed in Arduino IDE through the micro USB interface (with onboard flash management IC) and it is a programmable wifi transcriber module that's the best choice for wifi networking, mash networking and has 802.11 international standard 12E wifi chip, onboard 3.3V regulator and onboard Antena. Also, it has several power input options (input using a micro USB port and two types of external power input (5v VCC input and 3.3v VCC input) and can be used as an access point. Normally these modules can be programmed directly using the Arduino IDE, but for this project, we have to flash the firmware on NodeMCU. Note that after this process, you won't be able to use your NodeMCU with Arduino IDE. You can also refer to this ESP8266 Flashing Article to understand more about this. Step 1: First of all, connect your ESP8266 with a computer using micro USB type B to USB cable. When connected, a blue light indicator LED will glow. Step 2: Download the ESP8266 Flash Download tool for windows from the official website. Check the image given below to understand how to extract the zip file into the folder using WinRAR. Step 3: Now, you need to download ("esp_wifi_repeater-master"). This is the fully functional Wi-Fi Repeater (with NAT and mesh networking). Download the zip file and extract it into a folder where you can see a firmware folder that has three bin files (which will be used in later stages). Download it from the GitHub page. The link and image are given below. Download ESP WiFi Repeater Now, extract the file into the folder from the zip using WinRAR Step 4: Now, right-click on the zip file "flash_download_tools_v3.6.8" and click on 'extract here'. You will find a folder in your directory with named "flash_download_tools_v3.6.8". Now, open this folder and open the flash download tools as shown in the image given below. Step 5: A command window appears and "ESPRESSIF download tools" can be opened from the list. Select the first option and click on "ESP8266 DownloadTools", as you can see in the image given below. Once you click on it, you will see the main flashing tools/window as shown in the picture given below. Step 6: As I mentioned in step 3, you will have to download the esp_wifi_repeater-master from the Github and extract the zip file into the folder. Open the folder and you will see a firmware folder which contains 3 bin files. Select and choose all the bin files from the ESP8266 Download tools one by one and put the name of the file itself on the right side box. This is an important step. Right-click and select 'Rename'. Then copy the name of the bin file (without.bin) and paste it after the @ box as shown in the image below. Step 7: This is a very important step. Check out the image below and according to the instructions and screenshots provided, repeat for all the bin file and change some settings of esp8266 flash downloading tools like (SPI SPEED: 80Mhz, SPI MODE: QIO, FLASH SIZE: 32Mbit) and select the Comport, Baud rate: 115200 and finally click the "START" button to start flashing your ESP8266. Before flashing, you will see "IDLE" written which means it is an ideal condition and after successfully flashing, you will see " FINISH" dialogue in the monitor window of ESP8266 download tools. Also, you can view all the flashing related information, and you will get the Access point MAC Address and STA MAC Address, which is a very important network and device identity-related information. Now, just disconnect your ESP8266 and re-connect it or you can press the reset button on ESP 8266 so that the firmware restart. Step 8: Now, you have found a new Accesspoint or wi-fi hotspot name "MyAP" which is the SSID broadcasted by ESP8266 but hold on! It has no Internet connectivity. You need to set up and configure with your main home/office Wi-Fi router by opening its configuration page. Connect your mobile/laptop with this ("MyAP") SSID and dial the IP address (192.168.4.1) from your favorite browser and the configuration page will be opened. Under the STA settings add your main wifi network SSID name and password and click on connect. After that, configuration settings will be saved and under the AP (access point) settings, you can set your SSID name and password. Select the encryption security types like the most popular WPA2. Follow the screenshots given below for better understanding. Step 9: After everything was done, I just made a simple fabrication on a piece of plexiglass or in glass fiber and added an on-off switch. Experimentally, I added two pieces of 2 dbi antenna and connected with an onboard antenna for better wifi range coverage, which can also be rotated (although ESP8266 has onboard antenna). I powered it up using a 5v USB mobile charger with a USB cable and connected on ESP8266 MicroUSB port and put it on ac sockets. This is the best reliable power supply for long-term use. Another advantage is that this Wi-Fi repeater needs 5v power supply which can be powered from a good power bank you can also build your own power bank by following this article. Hence, there are chances that it can be used outdoor along with your mobile phone but commercial Wi-Fi repeater doesn't have this facility. You can't use it in the outdoors because the AC electric power supply is always needed. The complete working of Wi-Fi repeater can be found in the video linked below, we have also made a speed test in this new Wi-Fi repeater and got nearly 4.0Mbps. If you have any questions please leave them in the comment section or use our forums for other technical questions. Use wifi test on all your devices with our free website. Xiaomi Mi Wi-Fi Repeater 2 is an affordable WiFi range extender that comes with two built-in high-performance antennas to extend the range of your existing router. This device is compact and also works with Powerbanks, Powerstrips, Laptops, etc. Setting up the Mi WiFi Repeater will take about 10 minutes and all you need is the Mi Home app. The Mi Home app is compatible with Android smartphones with Android 4.0.3 or later and iOS devices with iOS 9.0 or later. Find the step by step instructions below. Xiaomi Mi WiFi Repeater 2 1. Setting up the Mi WiFi Repeater 22. Change the Username and Password3. Reset the Mi WiFi Repeater 2 How to Setup Mi WiFi Repeater 2? Download the Mi Home app from Google Play or Apple App StoreOpen Mi Home App on your smartphoneRead and agree with Terms & Conditions. Select the region as IndiaTap on Sign in and enter your existing Mi account Username and Password. If you don't have the Mi account click on Sign Up and Create a new Mi account Plugin-in the repeater to a power source. Make a note that, this device comes with a USB port so you'll have to connect it to a power bank or use any standard USB power adapter. Once the device powers up, Yellow LED will start glowing at the rear side of the deviceTap on Add DeviceSelect your Mi WiFi Repeater Now, select your WiFi network. Make sure your Primary WiFi router is turned on and WiFi light is glowing on it. In the below screenshot, GizArena is the name of my WiFi routerEnter the Password and Select OK Tap on NextIf the entered password is right, the Repeater will connect to your existing WiFi Router and you'll receive a message saying 'Device added'. This process will take a few secondsTap on Done Now select your device location such as Bedroom, Kitchen, etc. This step is OptionalTap on Use Now to complete the process. The Blue status light on your Repeater indicates that the repeater is ready for useThe WiFi ID (SSID) of your Repeater will end with _plus (Here GizArena_plus is my repeater WiFi ID). The password for the network will remain the same as your RouterNow exit the MiHome app and connect your devices to ending with _plus network How to change Username & Password of Mi WiFi Repeater 2? Open Mi Home app on your smartphoneSelect your WiFi Repeater from the Home screenTap on WiFi SettingsDelete the existing and enter the new NameEnter the new PasswordIf you want to hide the WiFi ID (SSID), enable the Hide network optionTap on OK to change the Username and Password How to Reset the Mi WiFi Repeater 2? Reset Mi WiFi Repeater 2 Plug the WiFi Repeater to a power sourceInsert a PIN in the Reset hole provide just below the LED indicatorPress and hold the reset button for 5-8 seconds until the light turns yellowNow, Open the Mi Home app and configure the repeater That's a wrap. This repeater is tested with Mi Router 3C, D-Link 2730U, D-Link DIR 600M, and BSNL DSLW200. Do let us know in the comments if you're experiencing any issues with the repeater setup. Follow us on Facebook and Twitter for the latest updates.

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