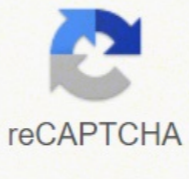




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# Kali linux raspberry pi 3 b install

October 3rd, 2018 Dependencies Linux operating system, preferably existing Kali Linux OS sha256sum xzcat dd Installation Download the image. Visit the Kali Linux ARM Images website and download the correct image. For the Raspberry Pi 3 Model B+, the correct image is labeled Kali Linux RaspberryPi 2 and 3 (This link is valid for version 2018.3). Verify the installation. Obtain the SHA256 checksum of the file that you downloaded with the sha256sum tool. Open Bash and run this command (replace the filename with the correct filename): sha256sum kali-linux-2018.3-rpi3-nexmon.img.xz If the computed checksum matches that provided on the website, then you can proceed with installing Kali Linux. The SHA256 checksum for version 2018.3 is a90717c67cd914e01a2f885a308b06f70cf9276c8760f1fa71a0ae372e341673. Determine the correct drive. Use the fdisk utility to find the correct drive for your micro SD card. Run fdisk -l to view all drives, and determine the correct one. It should appear as something similar to /dev/sdb. Flash the image. Run the following command on the verified download file (replace the filename with the correct filename and the drive with the correct drive): xzcat kali-linux-2018.3-rpi3-nexmon.img.xz | dd of=/dev/sdb bs=512k Run Kali Linux. Unmount, eject, and insert the SD card into your Raspberry Pi 3 Model B+. Connect the Raspberry Pi to a 5V DC 1.5A micro USB power supply, and log in with the username root and the password toor. Update the Raspberry Pi. Run the following commands to obtain the latest software and packages after configuring the network connection: apt-get update apt-get dist-upgrade apt-get autoremove apt-get autoclean Authors Ashish D'Souza - Sole developer - computer-geek64 APA Reference and Citation License This project is licensed under the MIT License - see the LICENSE file for details. Travis February 25, 2022 Operating System 0 Something went wrong. Wait a moment and try again. The Raspberry Pi 3 has a quad core 1.2GHz processor, with 1GB of RAM. Kali Linux fits on an external microSD card. By default, the Kali Linux Raspberry Pi 3 image contains the kali-linux-default metapackage similar to most other platforms. If you wish to install extra tools please refer to our metapackages page. Kali on Raspberry Pi 3 - User Instructions If you're unfamiliar with the details of downloading and validating a Kali Linux image, or for using that image to create a bootable device, it's strongly recommended that you refer to the more detailed procedures described in the specific articles on those subjects. To install a pre-built image of the standard build of Kali Linux on your Raspberry Pi 3, follow these instructions: Get a fast microSD card with at least 16GB capacity. Class 10 cards are highly recommended. Download and validate our preferred Kali Raspberry Pi 3 image from the downloads area. The process for validating an image is described in more detail on Downloading Kali Linux. Use the dd utility to image this file to your microSD card (same process as making a Kali USB). In our example, we assume the storage device is located at /dev/sdb. Do not simply copy these values, change this to the correct drive path. \$ xzcat kali-linux-2022.1-raspberry-pi-xfce-armhf.img.xz | sudo dd of=/dev/sdb bs=4M status=progress or \$ xzcat kali-linux-2022.1-raspberry-pi-xfce-arm64.img.xz | sudo dd of=/dev/sdb bs=4M status=progress This process can take a while, depending on your PC, your microSD's speed, and the size of the Kali Linux image. Once the dd operation is complete, boot up the Raspberry Pi 3 with the microSD plugged in. You should be able to log in to Kali. Kali on Raspberry Pi 3 - Tips and Tricks The bluetooth service on the Raspberry Pi 3 needs a uart helper service before it works. To enable and start the bluetooth service run the following commands: [email protected]:~\$ sudo systemctl enable --now hciuart.service [email protected]:~\$ sudo systemctl enable --now bluetooth.service If you are on the 5.10 kernel, you can use mt76 chipset USB Wi-Fi devices, but they require creating a configuration file in /etc/modprobe.d with the following contents: # Load mt76usb without using scatter-gather which doesn't work on the RP2 or RP3 USB chipset options mt76usb disable usb sg=1 Kali on Raspberry Pi 3 - Image Customization If you want to customize the Kali Raspberry Pi 3 image, including changes to the packages being installed, changing the desktop environment, increasing or decreasing the image file size or generally being adventurous, check out the Kali-ARM Build-Scripts repository on GitHub, and follow the README.md file's instructions. The script to use is raspberry-pi.sh (32-bit) or raspberry-pi-64-bit.sh (64-bit). This is how I installed Kali Linux on an ARM device, namely the Raspberry Pi 3 Model B. Table of contents Getting started Download Kali Linux for ARM architecture: NB! These images have a default password of "toor" and may have pre-generated SSH host keys Verify the SHA256: zxcv:Downloads mitnick\$ shasum -a 256 kali-linux-2019.3a-rpi3-nexmon.img.xz Compare it to what is listed on the download site. Extract kali-linux-2019.3a-rpi3-nexmon.img.xz. Fire up balenaEtcher (macOS) and "Select Image", "Select target" and press "Flash!". Insert your SD card into your Raspberry Pi and hook it up to a monitor + keyboard. Prerequisites Emergency mode If you happen to enter emergency mode when booting, you should modify fstab, after you enter the default root password toor. nano /etc/fstab # /dev/mmcblk0p2 / ext4 errors=remount-ro 0 1 /dev/mmcblk0p2 / ext4 ro 0 1 This should mount the rootfs as read-only on the next reboot. Reboot system using: Run fsck -fy, if the system hasn't already Remount the rootfs as read-write using: mount -o remount,rw /dev/mmcblk0p2 (IMPORTANT) Change /etc/fstab back to normal, thus: /dev/mmcblk0p2 / ext4 errors=remount-ro 0 1 # /dev/mmcblk0p2 / ext4 ro 0 1 If /etc/fstab doesn't get changed back to normal, then the system will always mount the rootfs as read-only. Reboot. Change SSH host keys root@kali:~\$ rm /etc/ssh/ssh\_host\_\* root@kali:~\$ dpkg-reconfigure openssh-server root@kali:~\$ service ssh restart Change root password Expand installation All the available space on your SD card is not in use - view the disk space by issuing df -h: root@kali:~\$ df -h Filesystem Size Used Avail Use% Mounted on /dev/root 4.5G 3.9G 284M 94% / devtmpfs 459M 0 459M 0% /dev tmpfs 464M 0 464M 0% /dev/shm tmpfs 464M 660K 463M 1% /run tmpfs 5.0M 0 5.0M 0% /run/lock tmpfs 464M 0 464M 0% /sys/fs/cgroup /dev/mmcblk0p1 122M 67M 55M 55% /boot tmpfs 93M 4.0K 93M 1% /run/user/113 tmpfs 93M 0 93M 0% /run/user/0 root@kali:~\$ Show the usable space for your SD card: root@kali:~\$ fdisk -l /dev/mmcblk0 Disk /dev/mmcblk0: 14.47 GiB, 15523119104 bytes, 30318592 sectors Units: sectors of 1 \* 512 = 512 bytes Sector size (logical/physical): 512 bytes / 512 bytes I/O size (minimum/optimal): 512 bytes / 512 bytes Disklabel type: dos Disk identifier: 0x08dd1e94 Device Boot Start End Sectors Size Id Type /dev/mmcblk0p1 1 250000 250000 122.1M c W95 FAT32 (LBA) /dev/mmcblk0p2 250001 30308863 30058863 14.3G 83 Linux root@kali:~\$ Expand your installation to the size of the partition with resize2fs: root@kali:~\$ resize2fs /dev/mmcblk0p2 root@kali:~\$ df -h Filesystem Size Used Avail Use% Mounted on /dev/root 15G 3.9G 9.6G 29% / devtmpfs 459M 0 459M 0% /dev tmpfs 464M 0 464M 0% /dev/shm tmpfs 464M 660K 463M 1% /run tmpfs 5.0M 0 5.0M 0% /run/lock tmpfs 464M 0 464M 0% /sys/fs/cgroup /dev/mmcblk0p1 122M 67M 55M 55% /boot tmpfs 93M 4.0K 93M 1% /run/user/113 tmpfs 93M 0 93M 0% /run/user/0 Update: root@kali:~\$ apt-get update Upgrade: root@kali:~\$ apt-get upgrade Do a dist-upgrade: root@kali:~\$ apt-get dist-upgrade And use apt autoremove to remove packages that are no longer required. WiFi Use iwlist to scan for wireless networks: root@kali:~\$ iwlist wlan0 scan ESSID is the name of the network. Encrypt the WPA password for the ESSID you wish to connect to: root@kali:~\$ wpa\_passphrase "Pretty Fly For A 2.4GHz WiFi" Ultimate-P4ssw0rd > /etc/wpa\_supplicant/wpa\_supplicant.conf network={ ssid="Pretty Fly For A 2.4GHz WiFi" #psk="Ultimate-P4ssw0rd" psk=5213529740af2ecc21237b450cca7ef3a271e4ae55c5273d79867abbbaed75f5 } Delete the commented-out plain text password from the file (#psk="Ultimate-P4ssw0rd") root@kali:~\$ nano /etc/wpa\_supplicant/wpa\_supplicant.conf Restart the wpa\_supplicant process with killall and wpa\_supplicant with -i to specify interface, and -c for configuration file (-B is for background process). Run dhclient wlan0 for making it requesting an IP from the DHCP server: root@kali:~\$ killall wpa\_supplicant root@kali:~\$ wpa\_supplicant -B -i wlan0 -c /etc/wpa\_supplicant/wpa\_supplicant.conf root@kali:~\$ dhclient wlan0 Now our Raspberry Pi should be connected to the specific WiFi network! root@kali:~\$ ifconfig wlan0 wlan0: flags=4163 mtu 1500 inet 192.168.13.140 netmask 255.255.255.0 broadcast 192.168.13.255 ether 9a:cd:4b:a9:74:a3 txqueuelen 1000 (Ethernet) RX packets 295 bytes 16425 (16.0 KiB) RX errors 0 dropped 64 overruns 0 frame 0 TX packets 6 bytes 1324 (1.2 KiB) TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0 Errors Try to reconfigure the package database. Probably the database got corrupted while installing a package. Reconfiguring often fixes the problem: root@kali:~\$ dpkg --configure -a And then try to issue apt-get upgrade. If that does not work, this worked for me: root@kali:~\$ apt --fix-broken install root@kali:~\$ apt-get upgrade Mr. Johnson Acknowledgments

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