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Creating A Kali Linux Bootable USB with **Encrypted** Persistence with **MacOS**

Creating a Kali Linux

bootable USB with encrypted persistence was more complicated than I thought. I couldn't seem to find an up-to-date guide that uses only tools available to MacOS users, so I decided to create one in hopes it might help others looking to do the same thing. Almost all of the commands will require sudo, so I recommend just switching to root using sudo -S.

1. Download the Kali Live .iso image from the

Creating The Bootable

official website (https://www.kali.org/d ownloads/). Verify the checksums with the command: shasum -a 256 /path/to/file

The output should match the sha256sums listed next

2. Backup your computer. It's incredibly easy to reformat your device's hard drive instead of

to the download.

good precautionary measure. 3. Find the name of the

USB drive. Enter

while the USB drive is not

the USB, so this is a

plugged in. Plug in the USB

diskutil list

the USB. 4. Transfer the .iso image onto the USB drive. diskutil eraseDisk FAT32 KALI /dev/<disk>

and re-enter the command.

The new item is the name of

pressing alt key while the computer restarts. Choose Live Kali.

dd if=/path/to/file of=/dev/<disk> bs=1m

disutil unmountDisk /dev/<disk>

Setting Up Persistence

5. Create new partition to

name of your USB will

be different in Kali than

store files on. The

(with Encryption)

in MacOS.

fdisk -l

again.

reboot

4. Boot into the disk by

fdisk /dev/<disk> type n, for new partition type p, for primary and select defaults type w, to save your changes 6. Reboot from the UBS

7. (optional) Setup encryption on said partition if desired. This will create a

mapping inside. If you

do this, refer to the

/dev/mapper>/ after

partition as

this step. If not, just refer to it as /dev/ cryptsetup create my_usb /dev/<disk>/ cryptsetup -vy luksFormat /dev/<disk>/<name> cryptsetup luksOpen /dev/<disk>/<name> 8. Create file system on

mkfs_ext3 -L persistence /dev/mapper/<name> e2label /dev/mapper/<name> persistence

new partition.

9. Create mount point on new partition. mkdir -p /mnt/<name>

mount /dev/mapper/<name> /mnt/<name> echo "/ union" > /mnt/<name>/persistence.conf

10. Unmount and reboot. umount /dev/mapper/<name> cryptsetup luksClose /dev/mapper/<name> reboot now