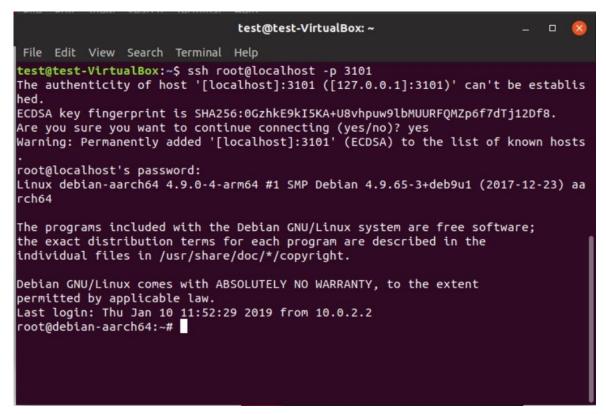
ARM Emulator Setup (Unix)

- 1. Download the latestrersion of QEMU:
 - a. For Ubuntu/Debian, run "sudo apt install qemu-system-arm"
 - b. For Arch/Manjaro, run "sudo pacman -S gemu-arch-extra"
 - c. For other distros, install whatever package "contains gemu-system-aarch64".
- Download the pre-compiled ARM image and scripts: https://drive.google.com/file/d/1C12uSIH37IZQgV9X0am8pBpwsP1laumL/view?usp=sharing
- 3. Unzip "qemu-arm-img.zip".
- 4. Navigate to the extracted folder in the terminal.
- 5. Navigate to the folder "Unix Scripts" in the terminal.
- 6. Run the following commands:
 - a. "chmod +x start.sh"
 - b. "chmod +x connect.sh"
 - c. "chmod +x transfer.sh"
- 7. Now, run the emulator for the frst time.
 - a. Run the following command: "./start.sh"
 - b. Wait for this screen:

```
test@test-VirtualBox: ~/Downloads/arm64_stretch
File Edit View Search Terminal Help
         Starting Login Service...
  OK ] Started System Logging Service.
  OK ] Started Login Service.
    30.667603] IPv6: ADDRCONF(NETDEV_UP): enp0s2: link is not ready 30.669381] e1000: enp0s2 NIC Link is Up 1000 Mbps Full Duplex, Flow Control:
    30.672764] IPv6: ADDRCONF(NETDEV_CHANGE): enp0s2: link becomes ready
  OK ] Started Raise network interfaces. OK ] Reached target Network.
          Starting OpenBSD Secure Shell server...
          Starting Permit User Sessions...
        ] Started Permit User Sessions.
        Started Serial Getty on ttyAMA0.
Started Getty on tty1.
        Reached target Login Prompts.
        ] Started OpenBSD Secure Shell server.
      l Reached target Multi-User System.
   OK ] Reached target Graphical Interface.
          Starting Update UTMP about System Runlevel Changes...
  OK ] Started Update UTMP about System Runlevel Changes.
Debian GNU/Linux 9 debian-aarch64 ttyAMA0
debian-aarch64 login:
```

- 8. Now the emulator is running; all that's left is connecting to it.
 - a. Open a new terminal window and navigate again to the folder "Unix Scripts".
 - b. Run the following command: "./connect.sh"

- c. Wait forthe script to promptou for the password
- d. Enter "root" as the password.
- e. This should lead to the following screenyou see this your emulator is set up!



Credits:

"Hugsy" for the Debian aarch64 image Boris E-Spektor for the Linux instructions and images