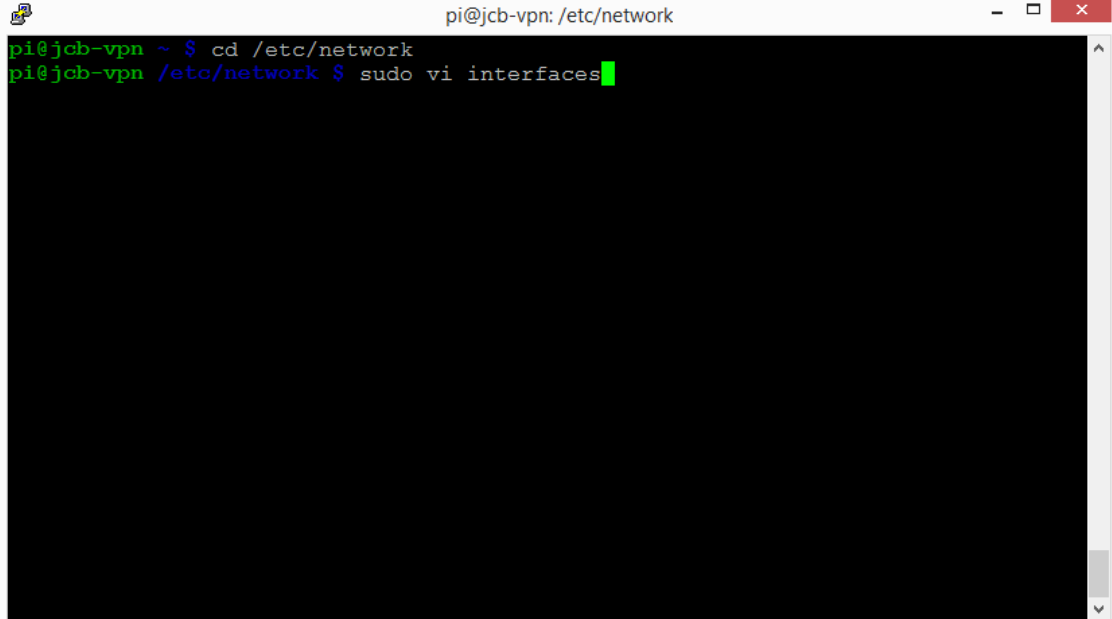
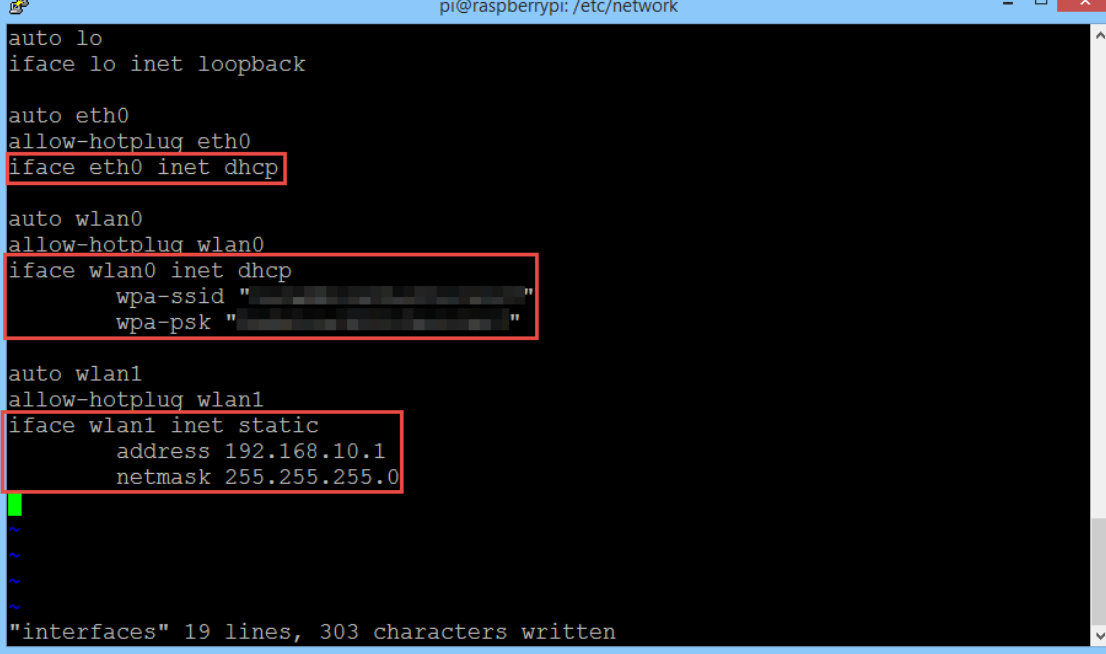
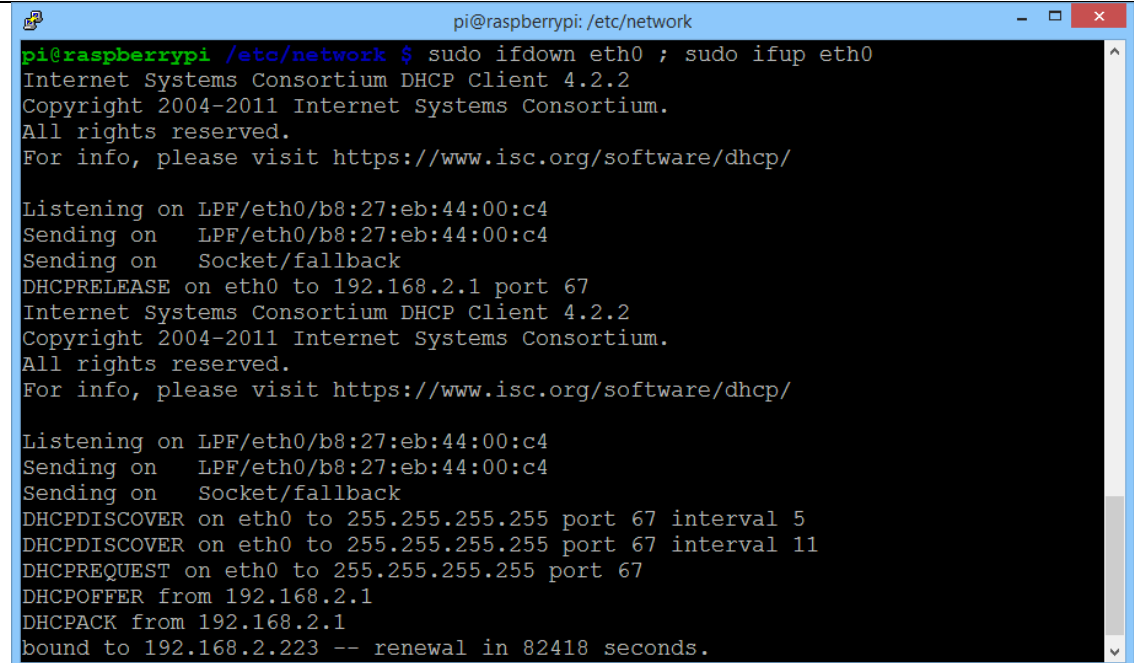
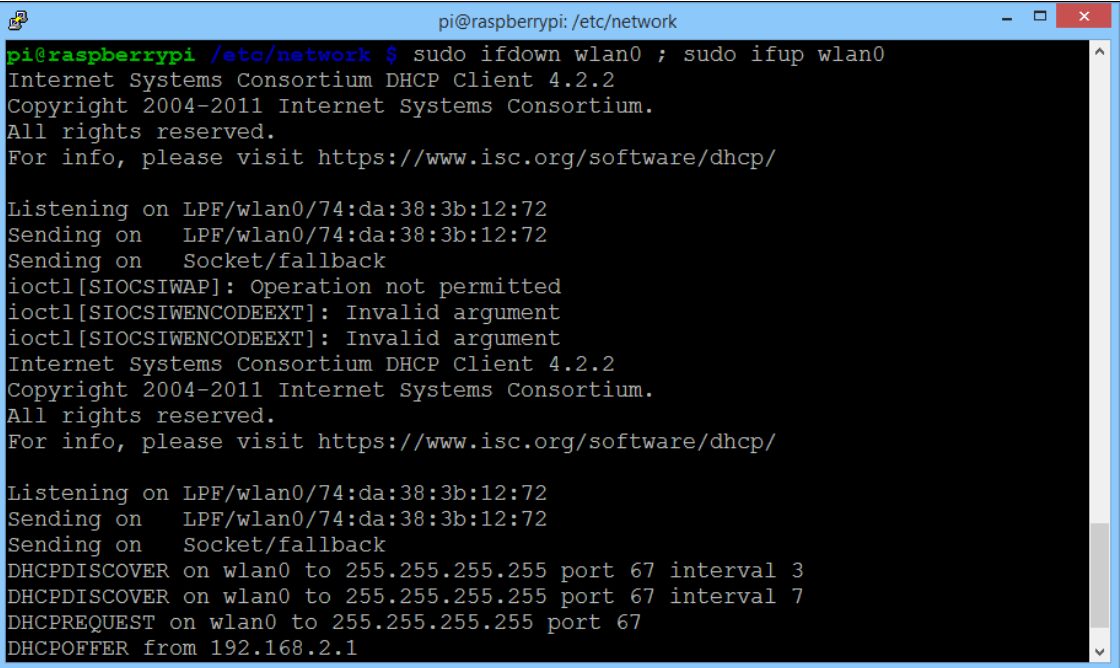


Configure Raspberry Pi as a Hotspot

1	 <pre>pi@jcb-vpn: /etc/network pi@jcb-vpn ~ \$ cd /etc/network pi@jcb-vpn /etc/network \$ sudo vi interfaces</pre>	<p>Execute "cd /etc/network".</p> <p>Execute "sudo vi interfaces".</p>
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2	 <pre>pi@raspberrypi: /etc/network auto lo iface lo inet loopback auto eth0 allow-hotplug eth0 iface eth0 inet dhcp auto wlan0 allow-hotplug wlan0 iface wlan0 inet dhcp wpa-ssid " " wpa-psk " " auto wlan1 allow-hotplug wlan1 iface wlan1 inet static address 192.168.10.1 netmask 255.255.255.0 "interfaces" 19 lines, 303 characters written</pre>	<p>Set the network options for interface wlan0.</p> <p>Save the file and exit the editor.</p> <p>This step configures the various network interfaces:</p> <ul style="list-style-type: none">eth0 – configured for DHCP to allow the Raspberry Pi to become a node on most networks. This helps with management of the Raspberry Pi while the remaining configuration is in progress.wlan0: allows the Raspberry Pi to connect to the public wireless network or the wireless network at your home. “wlan0” will be the network interface to the “untrusted” wireless network.wlan1: configures the second wireless as a private hotspot that will provide anonymity services.
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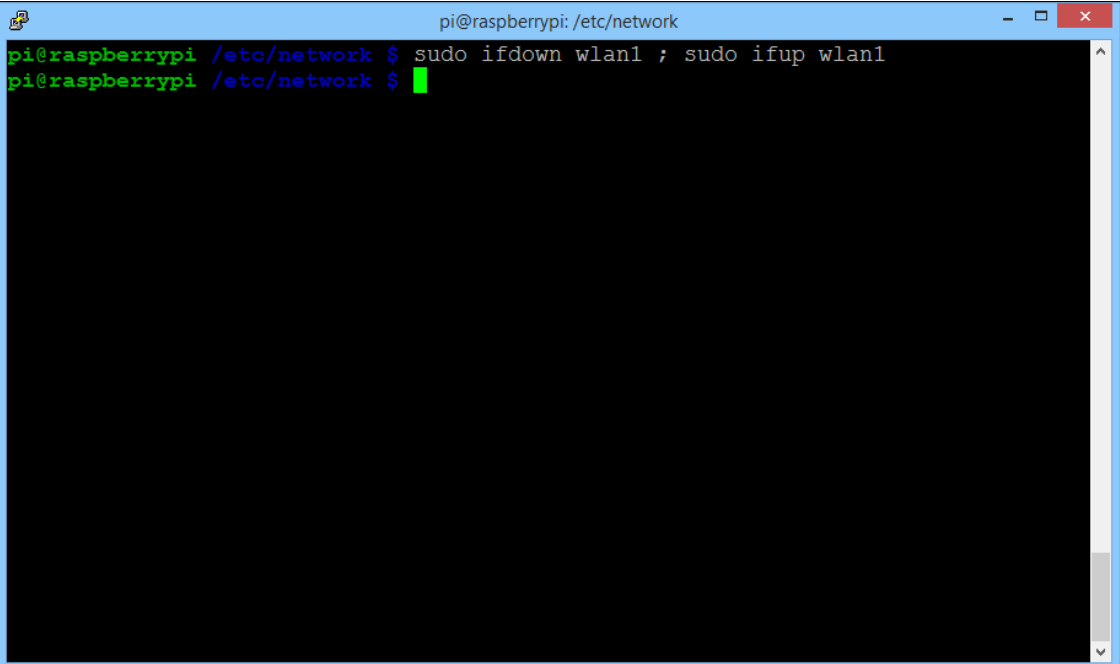
3	 <pre>pi@raspberrypi: /etc/network pi@raspberrypi /etc/network \$ sudo ifdown eth0 ; sudo ifup eth0 Internet Systems Consortium DHCP Client 4.2.2 Copyright 2004-2011 Internet Systems Consortium. All rights reserved. For info, please visit https://www.isc.org/software/dhcp/ Listening on LPF/eth0/b8:27:eb:44:00:c4 Sending on LPF/eth0/b8:27:eb:44:00:c4 Sending on Socket/fallback DHCPRELEASE on eth0 to 192.168.2.1 port 67 Internet Systems Consortium DHCP Client 4.2.2 Copyright 2004-2011 Internet Systems Consortium. All rights reserved. For info, please visit https://www.isc.org/software/dhcp/ Listening on LPF/eth0/b8:27:eb:44:00:c4 Sending on LPF/eth0/b8:27:eb:44:00:c4 Sending on Socket/fallback DHCPDISCOVER on eth0 to 255.255.255.255 port 67 interval 5 DHCPDISCOVER on eth0 to 255.255.255.255 port 67 interval 11 DHCPREQUEST on eth0 to 255.255.255.255 port 67 DHCPOFFER from 192.168.2.1 DHCPACK from 192.168.2.1 bound to 192.168.2.223 -- renewal in 82418 seconds.</pre>	<p>Execute “sudo ifdown eth0 ; sudo ifup eth0”.</p> <p>Execute “sudo ifdown wlan0 ; sudo ifup wlan0”.</p> <p>Execute “sudo ifdown wlan1 ; sudo ifup wlan1”.</p> <p>This step recycles all the network interfaces to reflect the updated configuration.</p>
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```
pi@raspberrypi: /etc/network
pi@raspberrypi /etc/network $ sudo ifdown wlan0 ; sudo ifup wlan0
Internet Systems Consortium DHCP Client 4.2.2
Copyright 2004-2011 Internet Systems Consortium.
All rights reserved.
For info, please visit https://www.isc.org/software/dhcp/

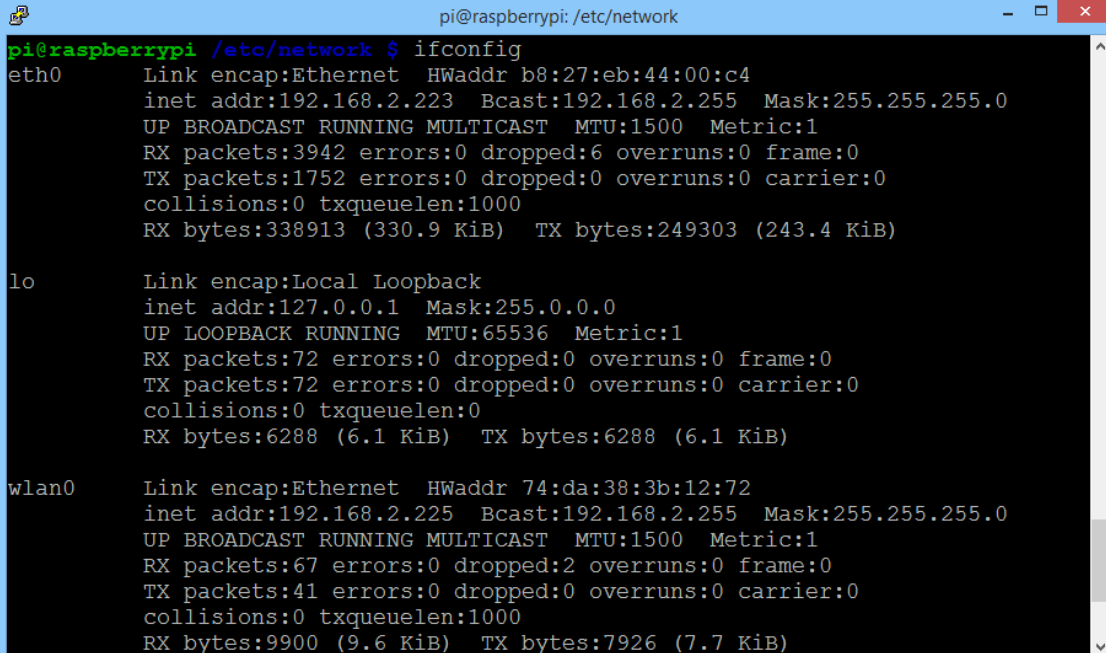
Listening on LPF/wlan0/74:da:38:3b:12:72
Sending on   LPF/wlan0/74:da:38:3b:12:72
Sending on   Socket/fallback
ioctl[SIOCSIWAP]: Operation not permitted
ioctl[SIOCSIWENCODSEXT]: Invalid argument
ioctl[SIOCSIWENCODSEXT]: Invalid argument
Internet Systems Consortium DHCP Client 4.2.2
Copyright 2004-2011 Internet Systems Consortium.
All rights reserved.
For info, please visit https://www.isc.org/software/dhcp/

Listening on LPF/wlan0/74:da:38:3b:12:72
Sending on   LPF/wlan0/74:da:38:3b:12:72
Sending on   Socket/fallback
DHCPDISCOVER on wlan0 to 255.255.255.255 port 67 interval 3
DHCPDISCOVER on wlan0 to 255.255.255.255 port 67 interval 7
DHCPPREQUEST on wlan0 to 255.255.255.255 port 67
DHCPOFFER from 192.168.2.1
```



```
pi@raspberrypi: /etc/network
pi@raspberrypi /etc/network $ sudo ifdown wlan1 ; sudo ifup wlan1
pi@raspberrypi /etc/network $ █
```

A terminal window titled "pi@raspberrypi: /etc/network" is shown. The prompt is "pi@raspberrypi /etc/network \$". The user has entered the command "sudo ifdown wlan1 ; sudo ifup wlan1". The prompt is now "pi@raspberrypi /etc/network \$" followed by a green cursor. The terminal background is black with green text.


4	 <pre>pi@raspberrypi /etc/network \$ ifconfig eth0 Link encap:Ethernet HWaddr b8:27:eb:44:00:c4 inet addr:192.168.2.223 Bcast:192.168.2.255 Mask:255.255.255.0 UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:3942 errors:0 dropped:6 overruns:0 frame:0 TX packets:1752 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:338913 (330.9 KiB) TX bytes:249303 (243.4 KiB) lo Link encap:Local Loopback inet addr:127.0.0.1 Mask:255.0.0.0 UP LOOPBACK RUNNING MTU:65536 Metric:1 RX packets:72 errors:0 dropped:0 overruns:0 frame:0 TX packets:72 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:0 RX bytes:6288 (6.1 KiB) TX bytes:6288 (6.1 KiB) wlan0 Link encap:Ethernet HWaddr 74:da:38:3b:12:72 inet addr:192.168.2.225 Bcast:192.168.2.255 Mask:255.255.255.0 UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:67 errors:0 dropped:2 overruns:0 frame:0 TX packets:41 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:9900 (9.6 KiB) TX bytes:7926 (7.7 KiB)</pre>	<p>Execute "ifconfig".</p> <p>Confirm the network interfaces have the assigned IP address. In particular, eth0 should have an IP address on the wired network, wlan0 should have an IP address on the wireless network, and wlan1 should be assigned 192.168.10.1.</p>
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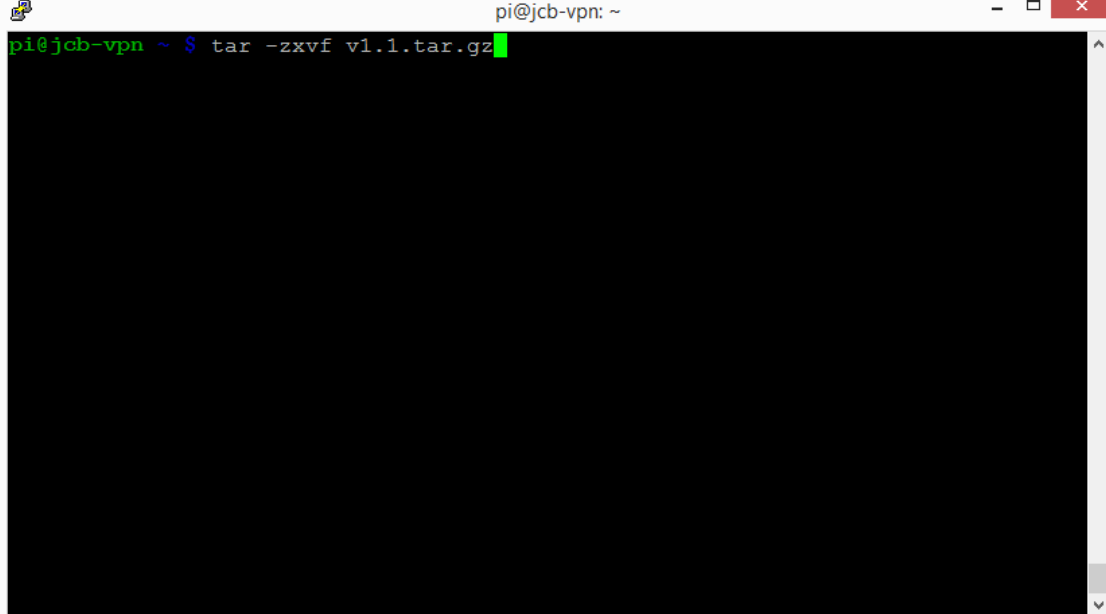
```
pi@raspberrypi: /etc/network
inet addr:127.0.0.1  Mask:255.0.0.0
UP LOOPBACK RUNNING  MTU:65536  Metric:1
RX packets:72 errors:0 dropped:0 overruns:0 frame:0
TX packets:72 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:6288 (6.1 KiB)  TX bytes:6288 (6.1 KiB)

wlan0  Link encap:Ethernet  HWaddr 74:da:38:3b:12:72
       inet addr:192.168.2.225  Bcast:192.168.2.255  Mask:255.255.255.0
       UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
       RX packets:67 errors:0 dropped:2 overruns:0 frame:0
       TX packets:41 errors:0 dropped:0 overruns:0 carrier:0
       collisions:0 txqueuelen:1000
       RX bytes:9900 (9.6 KiB)  TX bytes:7926 (7.7 KiB)

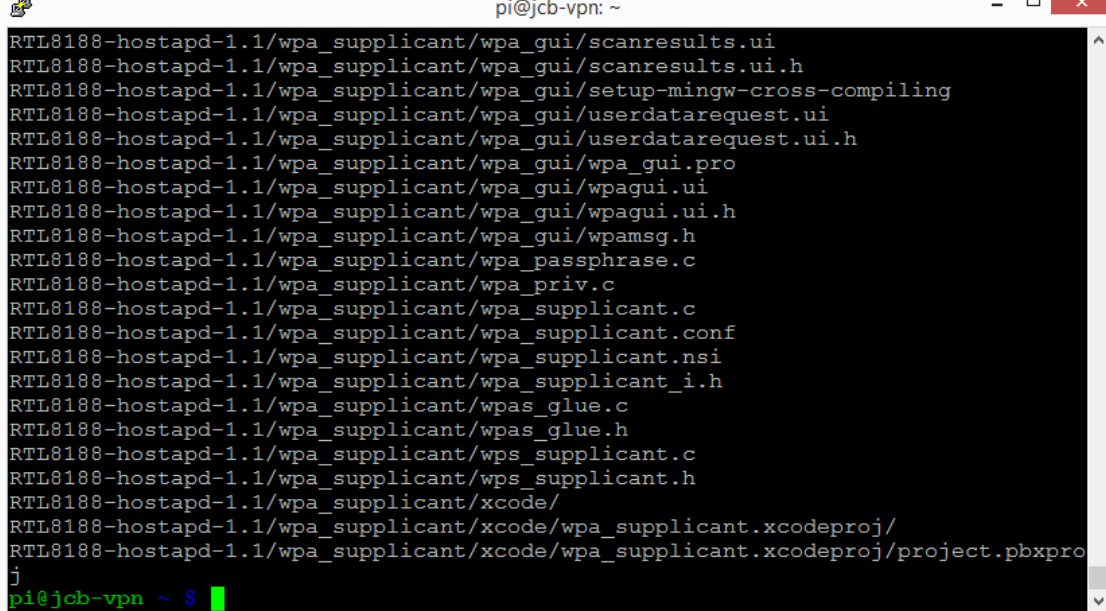
wlan1  Link encap:Ethernet  HWaddr 74:da:38:3b:12:88
       inet addr:192.168.10.1  Bcast:192.168.10.255  Mask:255.255.255.0
       UP BROADCAST MULTICAST  MTU:1500  Metric:1
       RX packets:0 errors:0 dropped:0 overruns:0 frame:0
       TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
       collisions:0 txqueuelen:1000
       RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)

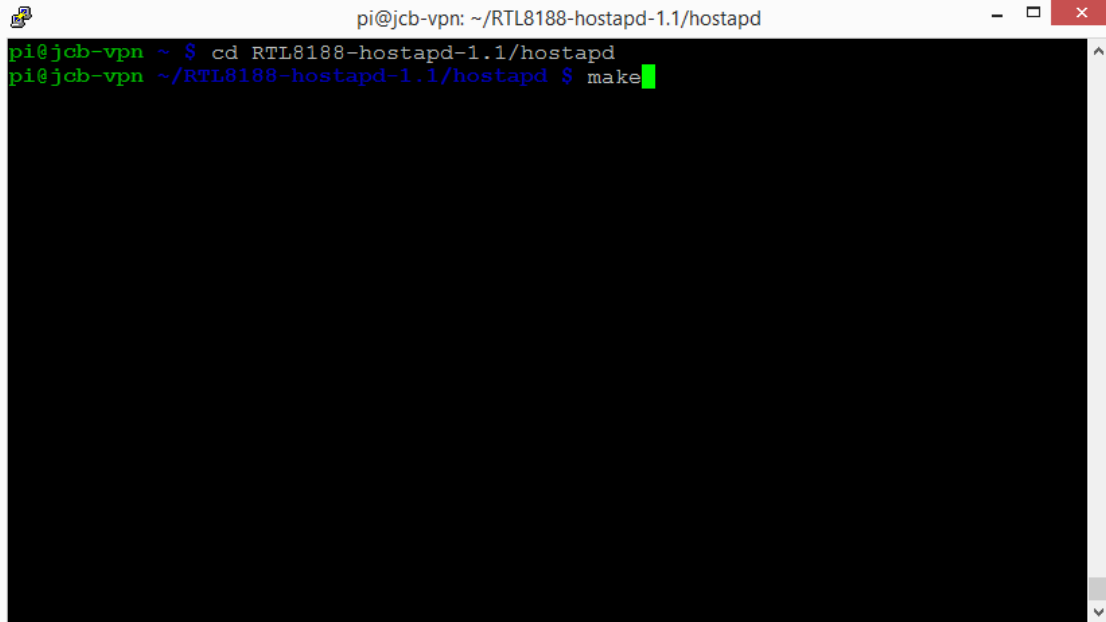
pi@raspberrypi /etc/network $ █
```

5	 <pre>pi@jcb-vpn: ~ pi@jcb-vpn /etc/network \$ cd pi@jcb-vpn ~ \$ wget https://github.com/jenssegers/RTL8188-hostapd/archive/v1.1.t ar.gz --2015-06-01 22:09:54-- https://github.com/jenssegers/RTL8188-hostapd/archive/v 1.1.tar.gz Resolving github.com (github.com)... 192.30.252.130 Connecting to github.com (github.com) 192.30.252.130 :443... connected. HTTP request sent, awaiting response... 302 Found Location: https://codeload.github.com/jenssegers/RTL8188-hostapd/tar.gz/v1.1 [fo llowing] --2015-06-01 22:09:59-- https://codeload.github.com/jenssegers/RTL8188-hostapd/ tar.gz/v1.1 Resolving codeload.github.com (codeload.github.com)... 192.30.252.146 Connecting to codeload.github.com (codeload.github.com) 192.30.252.146 :443... c onected. HTTP request sent, awaiting response... 200 OK Length: 1939585 (1.8M) [application/x-gzip] Saving to: `v1.1.tar.gz' 100%[=====>] 1,939,585 2.12M/s in 0.9s 2015-06-01 22:10:04 (2.12 MB/s) - `v1.1.tar.gz' saved [1939585/1939585] pi@jcb-vpn ~ \$ █</pre>	<p>Execute "cd".</p> <p>Execute "wget https://github.com/jenssegers/RTL8188-hostapd/archive/v1.1.tar.gz".</p> <p>This step builds a version of hostapd that works with the Edimax cads. Hostapd allows the Raspberry Pi to be configured as a hotspot.</p>
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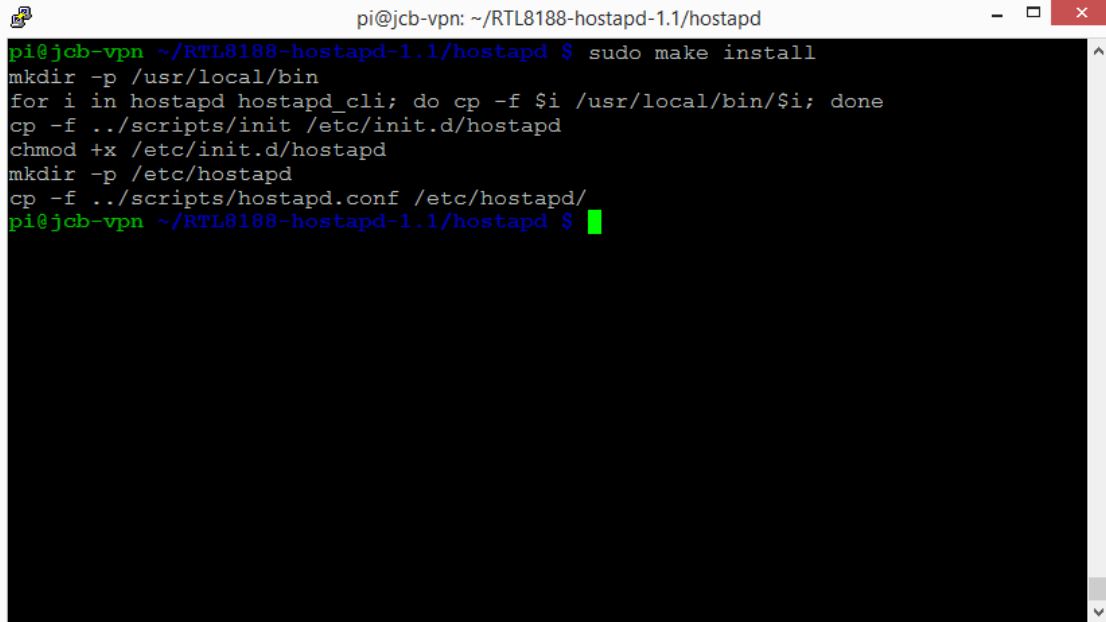
6	 <p>A terminal window titled "pi@jcb-vpn: ~" with standard window controls. The prompt is "pi@jcb-vpn ~ \$" and the command "tar -zxvf v1.1.tar.gz" is entered, with a green cursor at the end.</p>	<p>Execute "tar -zxvf v1.1.tar.gz".</p>
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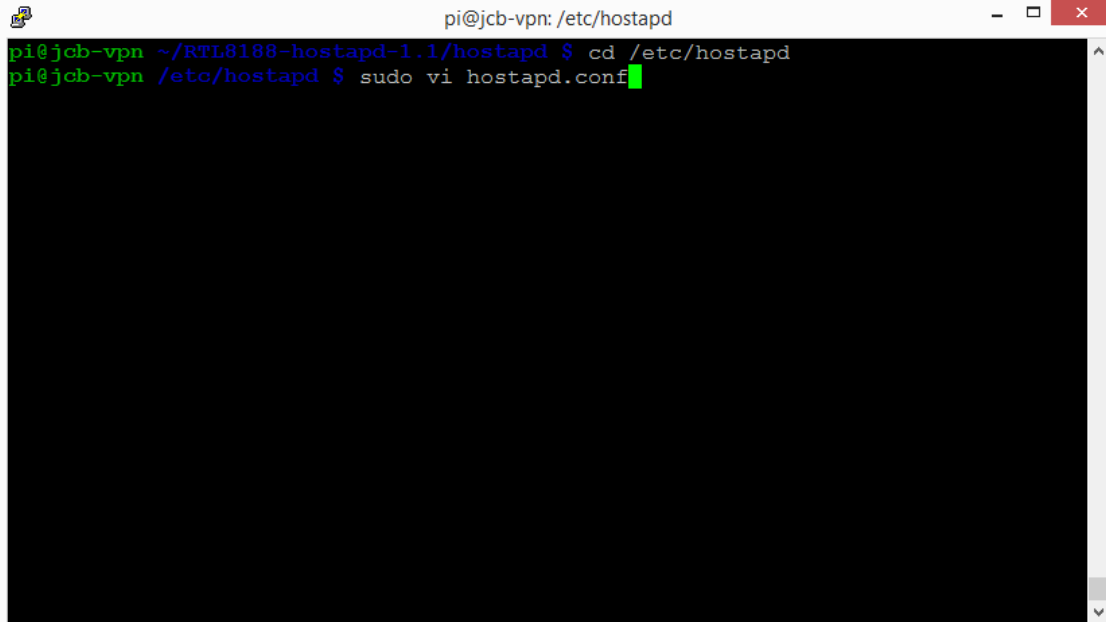
DRAFT

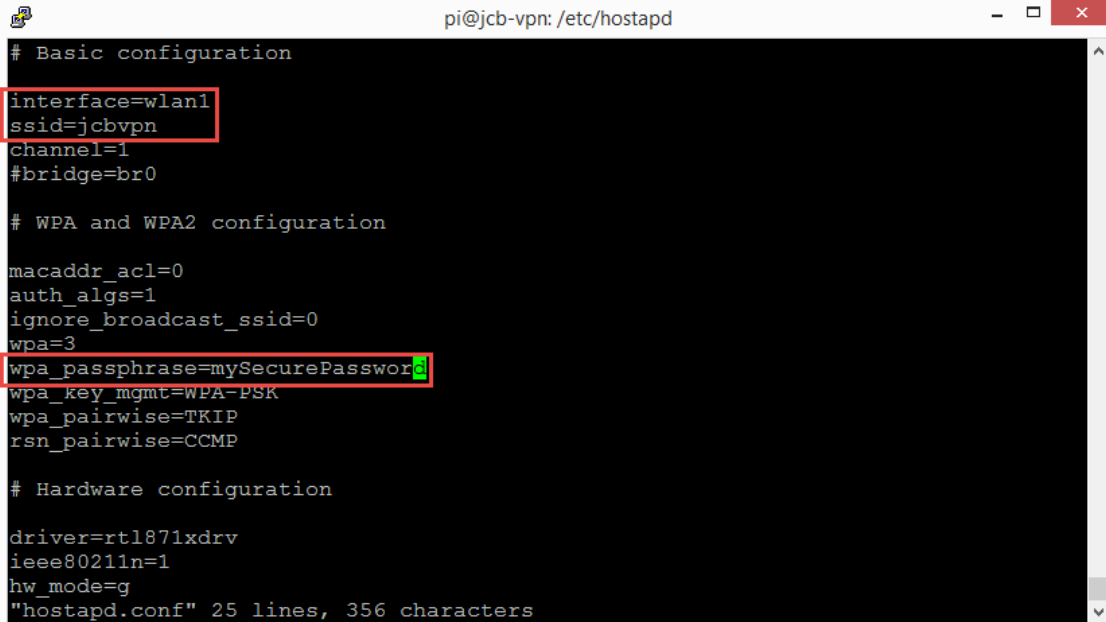
7	 <pre>pi@jcb-vpn: ~ RTL8188-hostapd-1.1/wpa_supplicant/wpa_gui/scanresults.ui RTL8188-hostapd-1.1/wpa_supplicant/wpa_gui/scanresults.ui.h RTL8188-hostapd-1.1/wpa_supplicant/wpa_gui/setup-mingw-cross-compiling RTL8188-hostapd-1.1/wpa_supplicant/wpa_gui/userdatarequest.ui RTL8188-hostapd-1.1/wpa_supplicant/wpa_gui/userdatarequest.ui.h RTL8188-hostapd-1.1/wpa_supplicant/wpa_gui/wpa_gui.pro RTL8188-hostapd-1.1/wpa_supplicant/wpa_gui/wpagui.ui RTL8188-hostapd-1.1/wpa_supplicant/wpa_gui/wpagui.ui.h RTL8188-hostapd-1.1/wpa_supplicant/wpa_gui/wpamsmsg.h RTL8188-hostapd-1.1/wpa_supplicant/wpa_passphrase.c RTL8188-hostapd-1.1/wpa_supplicant/wpa_priv.c RTL8188-hostapd-1.1/wpa_supplicant/wpa_supplicant.c RTL8188-hostapd-1.1/wpa_supplicant/wpa_supplicant.conf RTL8188-hostapd-1.1/wpa_supplicant/wpa_supplicant.nsi RTL8188-hostapd-1.1/wpa_supplicant/wpa_supplicant_i.h RTL8188-hostapd-1.1/wpa_supplicant/wpas_glue.c RTL8188-hostapd-1.1/wpa_supplicant/wpas_glue.h RTL8188-hostapd-1.1/wpa_supplicant/wps_supplicant.c RTL8188-hostapd-1.1/wpa_supplicant/wps_supplicant.h RTL8188-hostapd-1.1/wpa_supplicant/xcode/ RTL8188-hostapd-1.1/wpa_supplicant/xcode/wpa_supplicant.xcodeproj/ RTL8188-hostapd-1.1/wpa_supplicant/xcode/wpa_supplicant.xcodeproj/project.pbxproj j pi@jcb-vpn ~ \$</pre>	Confirm the file properly unpacks.
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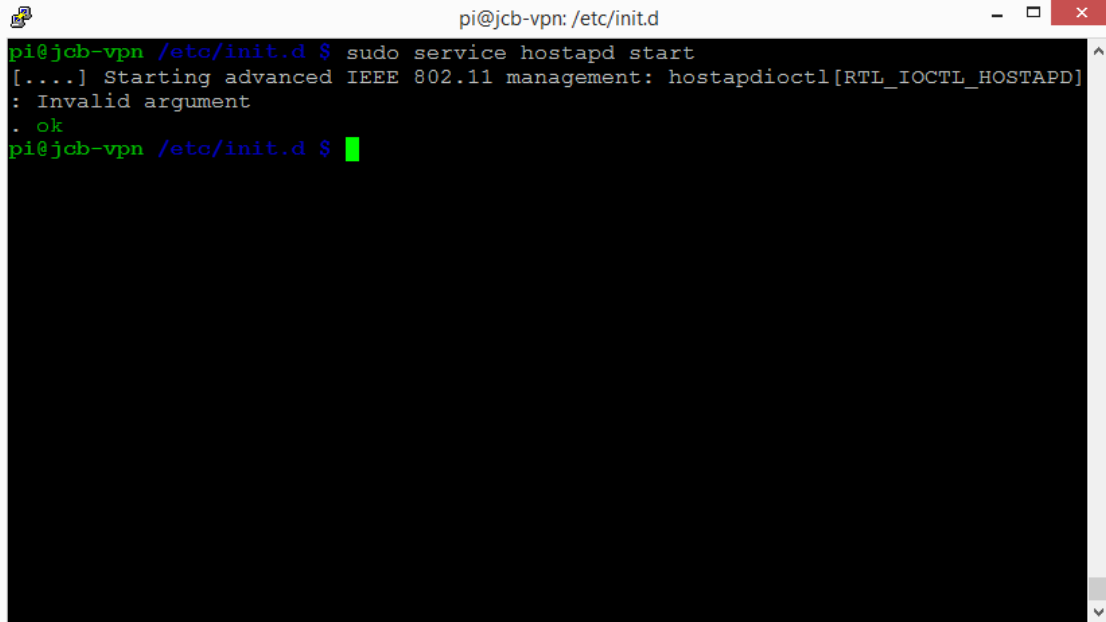
8	 <pre>pi@jcb-vpn: ~/RTL8188-hostapd-1.1/hostapd pi@jcb-vpn ~ \$ cd RTL8188-hostapd-1.1/hostapd pi@jcb-vpn ~/RTL8188-hostapd-1.1/hostapd \$ make</pre>	<p>Execute "cd RTL8188-hostapd-1.1/hostapd".</p> <p>Execute "make".</p>
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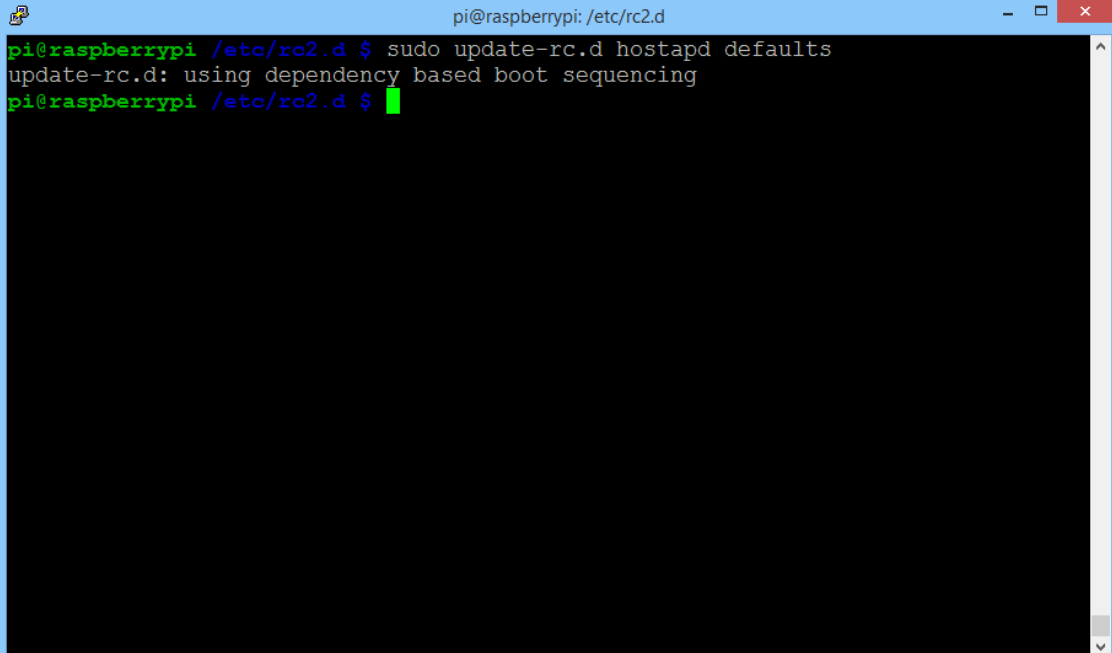
9	<pre>pi@jcb-vpn: ~/RTL8188-hostapd-1.1/hostapd CC ../src/crypto/sha1-internal.c CC ../src/crypto/sha1-pbkdf2.c CC ../src/crypto/md5-internal.c CC ../src/crypto/rc4.c CC ../src/crypto/sha256.c CC ../src/crypto/sha256-internal.c CC ../src/crypto/dh_groups.c CC ../src/crypto/dh_group5.c CC ../src/crypto/random.c CC ../src/utils/base64.c CC ../src/ap/beacon.c CC ../src/ap/wmm.c CC ../src/ap/ap_list.c ../src/ap/ieee802_11.c: In function 'handle_action': ../src/ap/ieee802_11.c:1393:19: warning: variable 'sta' set but not used [-Wunus ed-but-set-variable] CC ../src/ap/ieee802_11.c CC ../src/ap/hw_features.c CC ../src/ap/ieee802_11_ht.c LD hostapd CC hostapd_cli.c CC ../src/common/wpa_ctrl.c LD hostapd_cli pi@jcb-vpn ~/RTL8188-hostapd-1.1/hostapd \$</pre>	Confirm the package built without error. Some warnings are expected.
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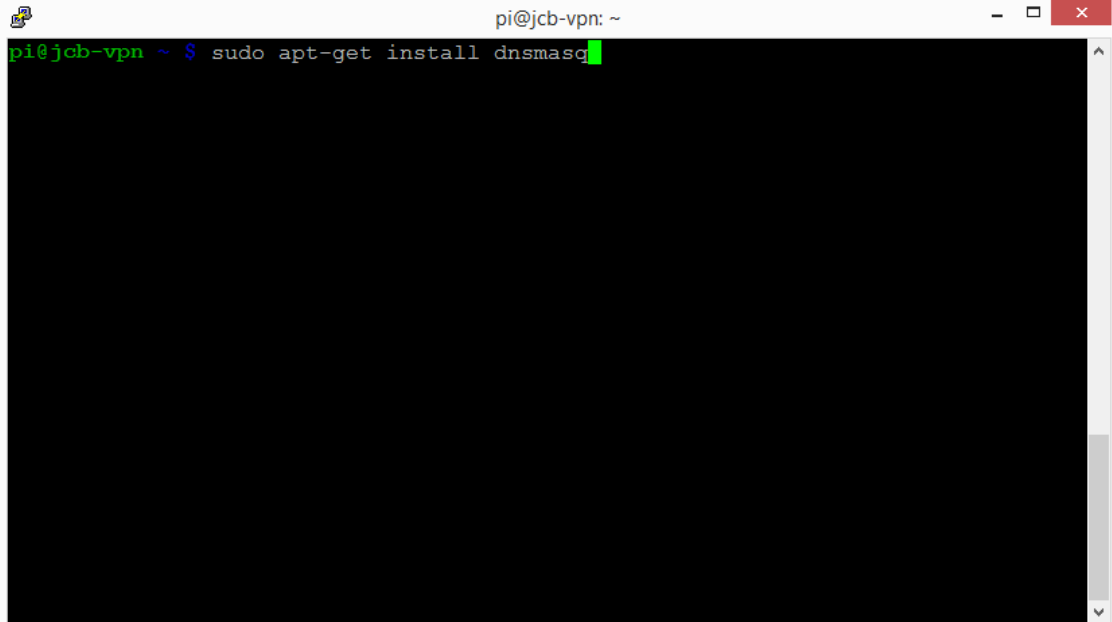
10	 <pre>pi@jcb-vpn: ~/RTL8188-hostapd-1.1/hostapd pi@jcb-vpn ~/RTL8188-hostapd-1.1/hostapd \$ sudo make install mkdir -p /usr/local/bin for i in hostapd hostapd_cli; do cp -f \$i /usr/local/bin/\$i; done cp -f ../scripts/init /etc/init.d/hostapd chmod +x /etc/init.d/hostapd mkdir -p /etc/hostapd cp -f ../scripts/hostapd.conf /etc/hostapd/ pi@jcb-vpn ~/RTL8188-hostapd-1.1/hostapd \$</pre>	Execute "sudo make install".
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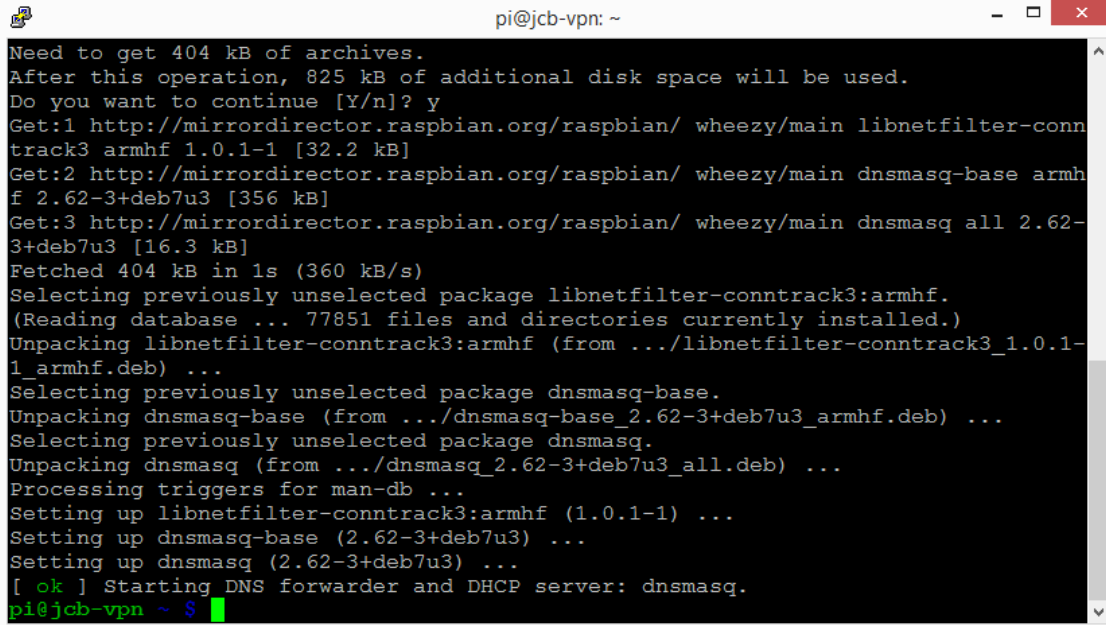
11	 <pre>pi@jcb-vpn: /etc/hostapd pi@jcb-vpn ~/RTL8188-hostapd-1.1/hostapd \$ cd /etc/hostapd pi@jcb-vpn /etc/hostapd \$ sudo vi hostapd.conf</pre>	<p>Execute "cd /etc/hostapd".</p> <p>Execute "sudo vi hostapd.conf".</p>
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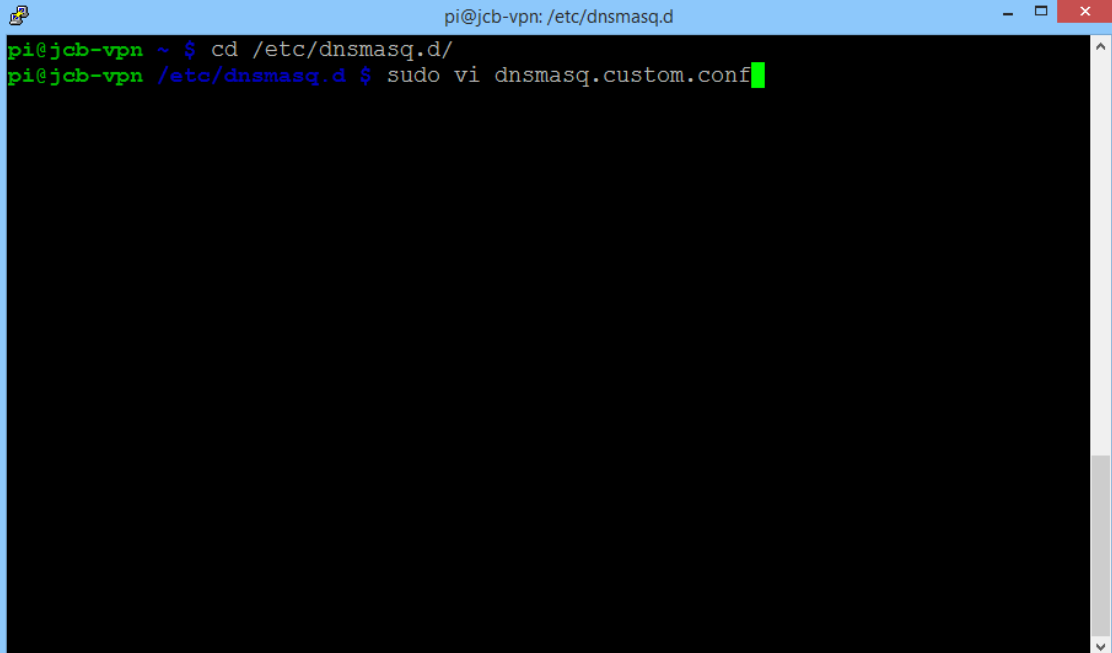
12	 <pre>pi@jcb-vpn: /etc/hostapd # Basic configuration interface=wlan1 ssid=jcbvpn channel=1 #bridge=br0 # WPA and WPA2 configuration macaddr_acl=0 auth_algs=1 ignore_broadcast_ssid=0 wpa=3 wpa_passphrase=mySecurePasswor wpa_key_mgmt=WPA-PSK wpa_pairwise=TKIP rsn_pairwise=CCMP # Hardware configuration driver=rtl871xdrv ieee80211n=1 hw_mode=g "hostapd.conf" 25 lines, 356 characters</pre>	<p>Set the interface to “wlan1”.</p> <p>Set the ssid to a suitable value.</p> <p>Set the wpa_passphrase to a suitable value.</p> <p>Save the file and exit the editor.</p> <p>This step configures the Raspberry Pi as a hotspot on wlan1.</p>
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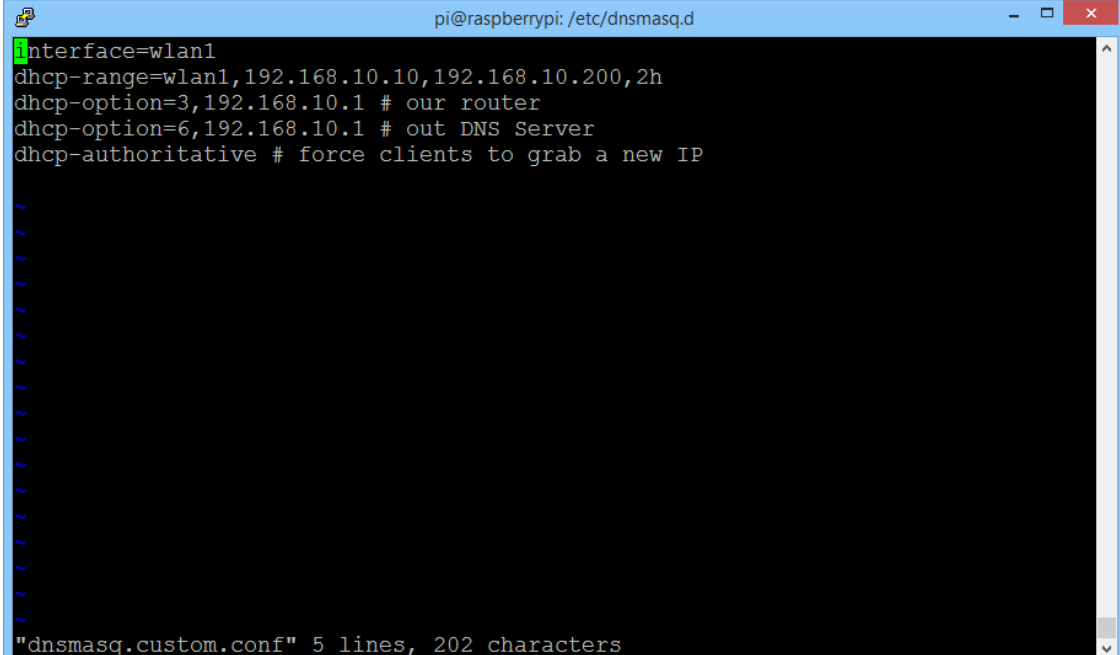
13	 <pre>pi@jcb-vpn: /etc/init.d pi@jcb-vpn /etc/init.d \$ sudo service hostapd start [...] Starting advanced IEEE 802.11 management: hostapdioc1[RTL_IOCTL_HOSTAPD] : Invalid argument . ok pi@jcb-vpn /etc/init.d \$ █</pre>	<p>Execute “sudo service hostapd start”.</p> <p>This steps starts up the hotspot service.</p>
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14	 <pre>pi@raspberrypi: /etc/rc2.d \$ sudo update-rc.d hostapd defaults update-rc.d: using dependency based boot sequencing pi@raspberrypi: /etc/rc2.d \$</pre>	<p>Execute “sudo update-rc.d hostapd defaults”.</p> <p>This step configures the hotspot service to start when the Raspberry Pi boots.</p>
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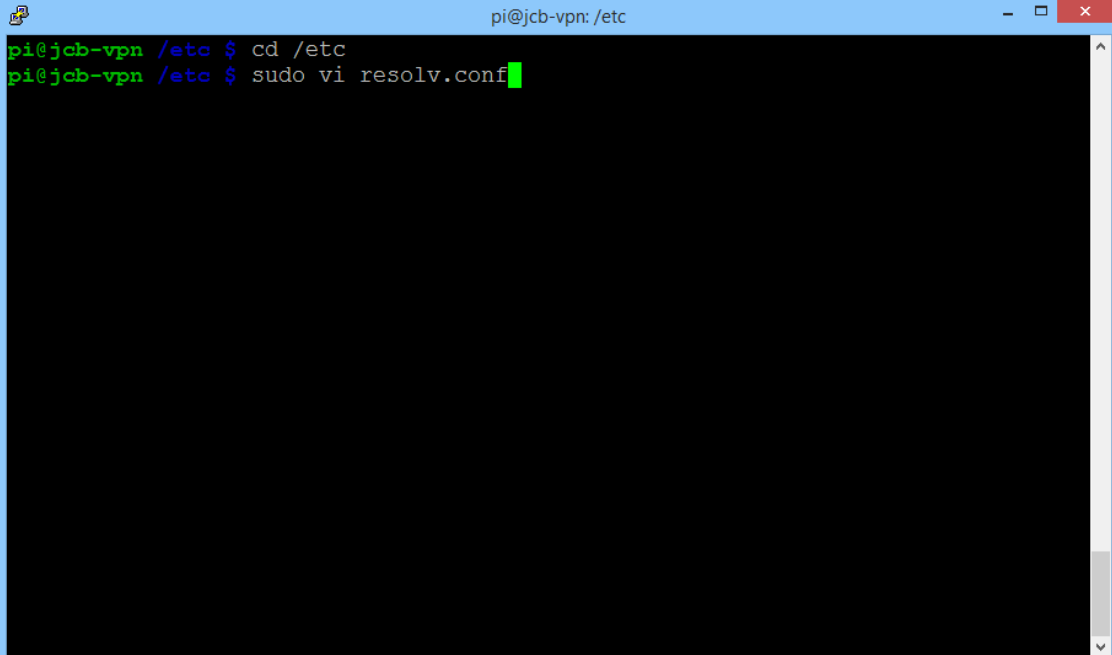
15	 A terminal window titled 'pi@jcb-vpn: ~' with standard window controls. The command 'pi@jcb-vpn ~ \$ sudo apt-get install dnsmasq' is entered, with a green cursor at the end of the line. The rest of the terminal is black.	<p>Execute "sudo apt-get install dnsmasq".</p> <p>Enter "Y" when prompted to continue.</p> <p>This allows the Raspberry Pi to function as a DHCP server and forward DNS requests.</p>
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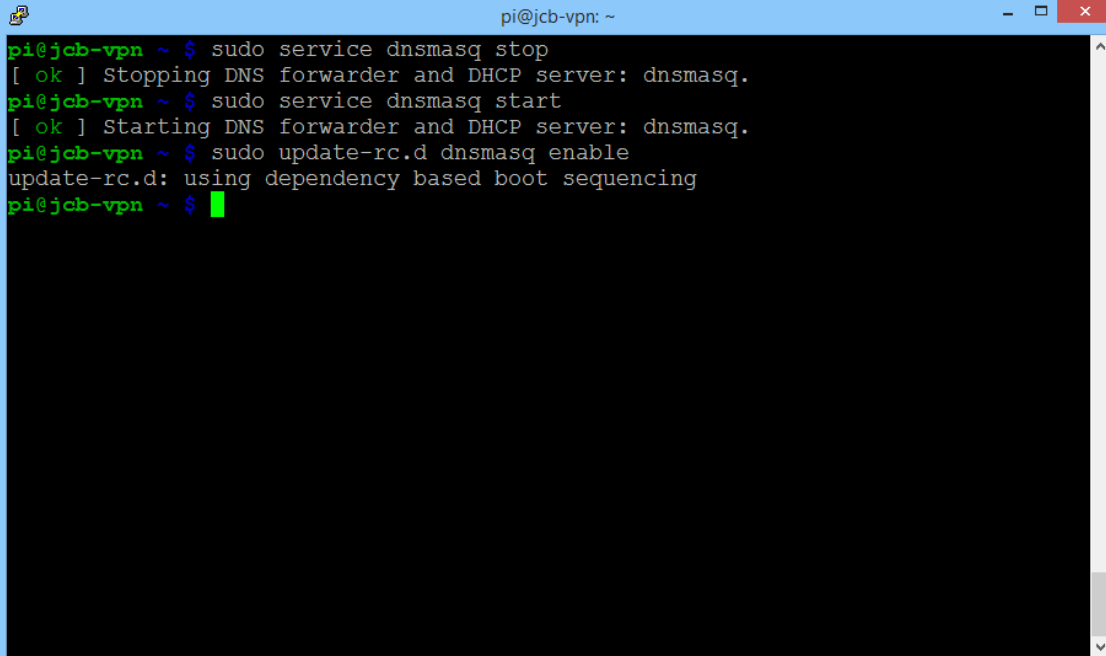
16	 <pre>pi@jcb-vpn: ~ Need to get 404 kB of archives. After this operation, 825 kB of additional disk space will be used. Do you want to continue [Y/n]? y Get:1 http://mirrordirector.raspbian.org/raspbian/ wheezy/main libnetfilter-contrack3 armhf 1.0.1-1 [32.2 kB] Get:2 http://mirrordirector.raspbian.org/raspbian/ wheezy/main dnsmasq-base armhf 2.62-3+deb7u3 [356 kB] Get:3 http://mirrordirector.raspbian.org/raspbian/ wheezy/main dnsmasq all 2.62-3+deb7u3 [16.3 kB] Fetched 404 kB in 1s (360 kB/s) Selecting previously unselected package libnetfilter-contrack3:armhf. (Reading database ... 77851 files and directories currently installed.) Unpacking libnetfilter-contrack3:armhf (from ../libnetfilter-contrack3_1.0.1-1_armhf.deb) ... Selecting previously unselected package dnsmasq-base. Unpacking dnsmasq-base (from ../dnsmasq-base_2.62-3+deb7u3_armhf.deb) ... Selecting previously unselected package dnsmasq. Unpacking dnsmasq (from ../dnsmasq_2.62-3+deb7u3_all.deb) ... Processing triggers for man-db ... Setting up libnetfilter-contrack3:armhf (1.0.1-1) ... Setting up dnsmasq-base (2.62-3+deb7u3) ... Setting up dnsmasq (2.62-3+deb7u3) ... [ok] Starting DNS forwarder and DHCP server: dnsmasq. pi@jcb-vpn ~ \$</pre>	Confirm dnsmasq installs and starts.
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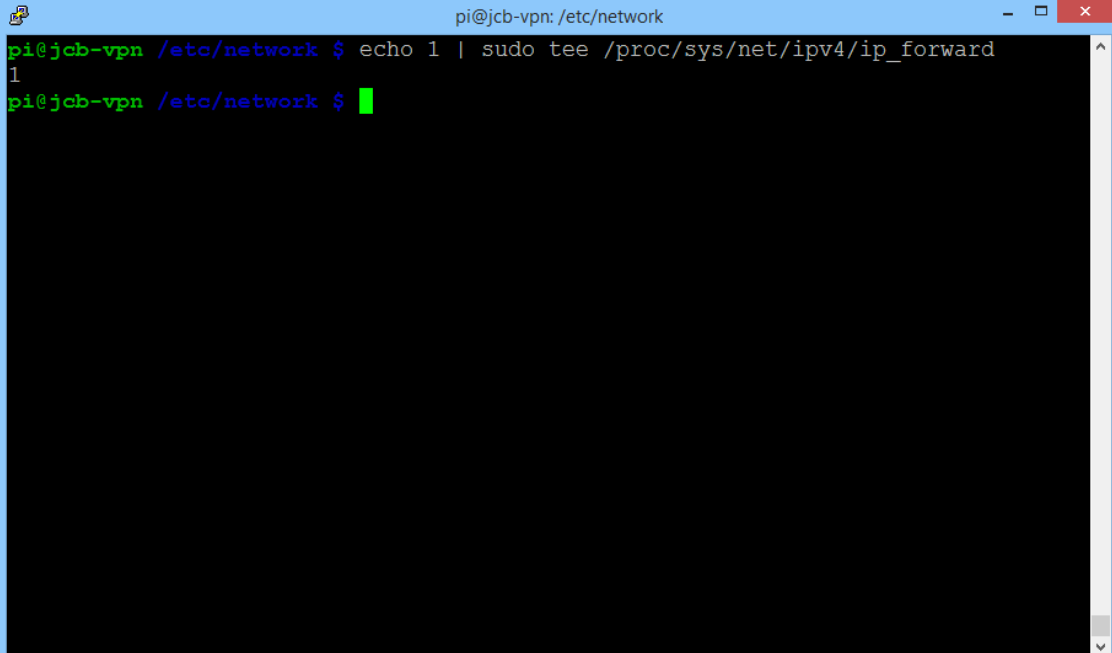
17	 <pre>pi@jcb-vpn: /etc/dnsmasq.d pi@jcb-vpn ~ \$ cd /etc/dnsmasq.d/ pi@jcb-vpn /etc/dnsmasq.d \$ sudo vi dnsmasq.custom.conf</pre>	<p>Execute "cd /etc/dnsmasq.d"</p> <p>Execute "sudo vi dnsmasq.custom.conf"</p>
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18	 <pre> pi@raspberrypi: /etc/dnsmasq.d interface=wlan1 dhcp-range=wlan1,192.168.10.10,192.168.10.200,2h dhcp-option=3,192.168.10.1 # our router dhcp-option=6,192.168.10.1 # our DNS Server dhcp-authoritative # force clients to grab a new IP ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ "dnsmasq.custom.conf" 5 lines, 202 characters </pre>	<p>Enter the contents to the left and save the file.</p> <p>This step sets the DHCP server configuration for the Raspberry Pi hotspot.</p> <pre> ===== interface=wlan1 dhcp- range=wlan1,192.168.10.10,192.168.10.200,2h dhcp-option=3,192.168.10.1 # our router dhcp-option=6,192.168.10.1 # our DNS Server dhcp-authoritative # force clients to grab a new IP </pre>
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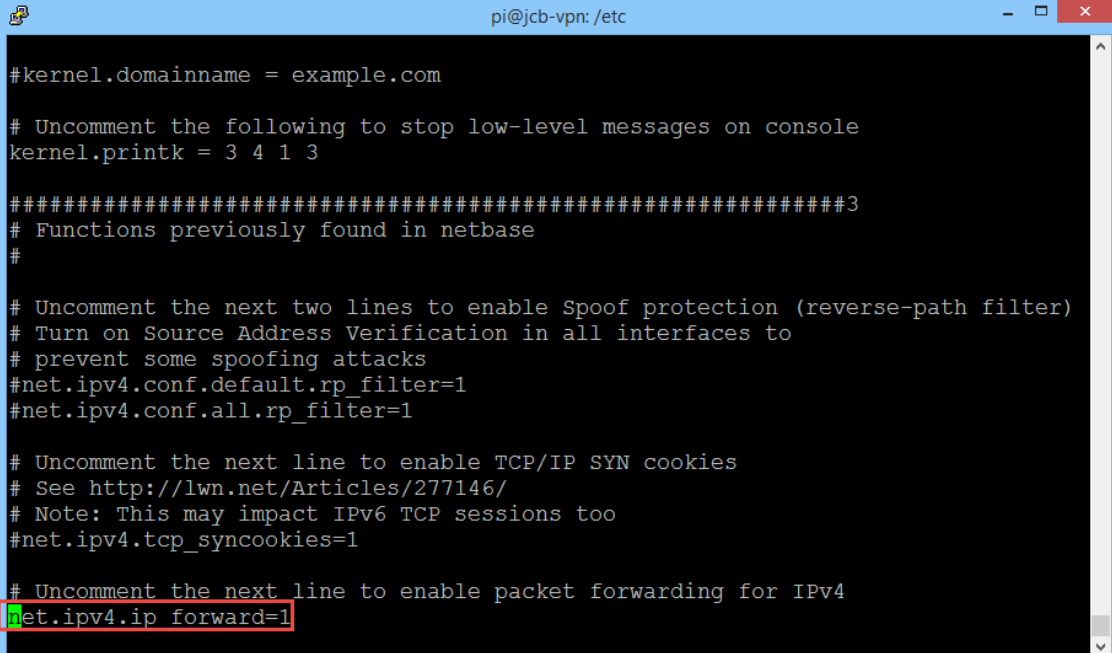
DRAFT

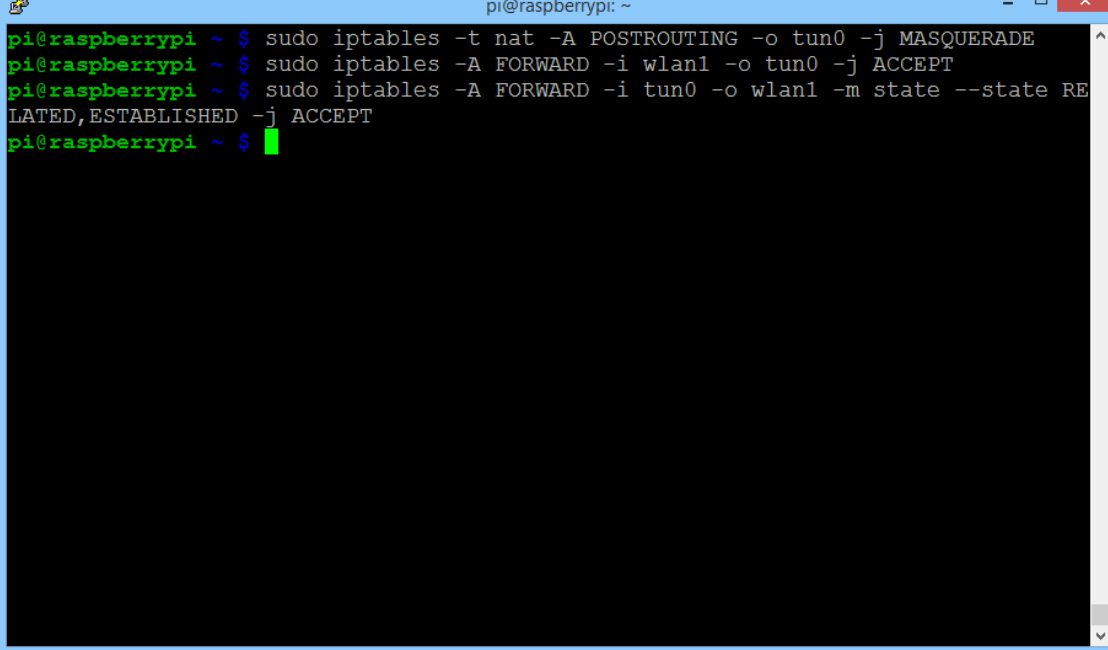
19	 <pre>pi@jcb-vpn /etc \$ cd /etc pi@jcb-vpn /etc \$ sudo vi resolv.conf</pre>	<p>Execute "cd /etc".</p> <p>Execute "sudo vi resolv.conf".</p>
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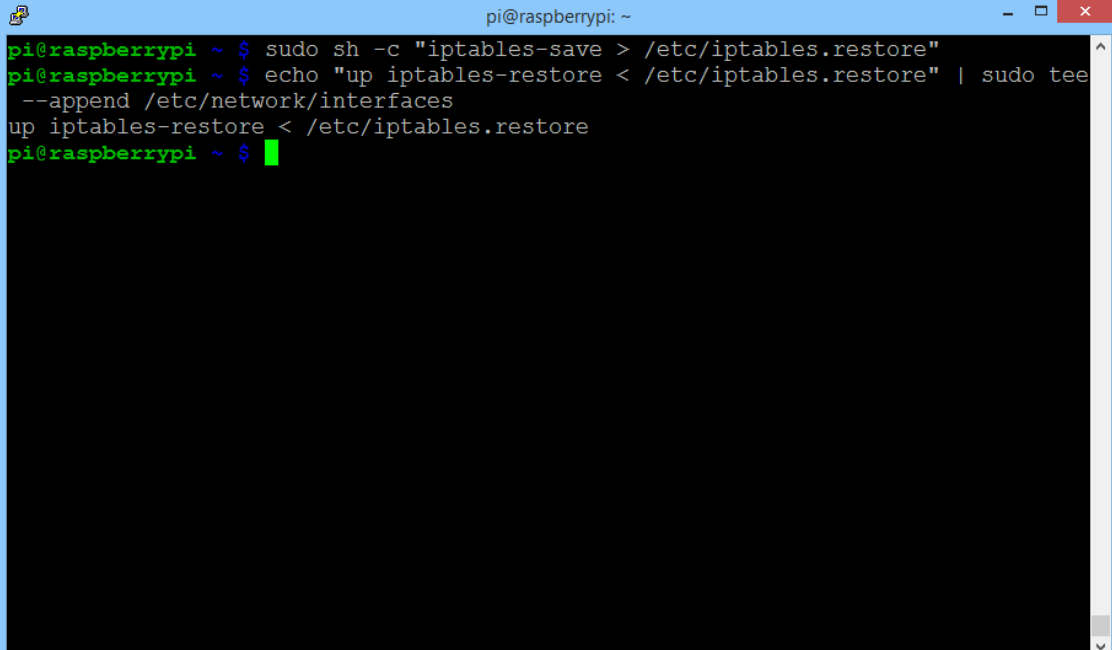
21	 <pre>pi@jcb-vpn ~ \$ sudo service dnsmasq stop [ok] Stopping DNS forwarder and DHCP server: dnsmasq. pi@jcb-vpn ~ \$ sudo service dnsmasq start [ok] Starting DNS forwarder and DHCP server: dnsmasq. pi@jcb-vpn ~ \$ sudo update-rc.d dnsmasq enable update-rc.d: using dependency based boot sequencing pi@jcb-vpn ~ \$ █</pre>	<p>Execute “sudo service dnsmasq stop”.</p> <p>Execute “sudo service dnsmasq start”.</p> <p>Execute “sudo update-rc.d dnsmasq enable”.</p> <p>This step restarts dnsmasq to use the new configuration and sets it to automatically start on boot.</p>
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22	 <pre>pi@jcb-vpn: /etc/network pi@jcb-vpn /etc/network \$ echo 1 sudo tee /proc/sys/net/ipv4/ip_forward 1 pi@jcb-vpn /etc/network \$ █</pre>	<p>Execute “echo 1 sudo tee /proc/sys/net/ipv4/ip_forward”.</p> <p>This step enables routing network packets through the Raspberry Pi.</p>
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23	 <pre>pi@raspberrypi ~ \$ cd /etc pi@raspberrypi /etc \$ sudo vi sysctl.conf</pre>	<p>Execute "cd /etc".</p> <p>Execute "sudo vi sysctl.conf".</p>
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24	 <pre>pi@jcb-vpn: /etc #kernel.domainname = example.com # Uncomment the following to stop low-level messages on console kernel.printk = 3 4 1 3 #####3 # Functions previously found in netbase # # Uncomment the next two lines to enable Spoof protection (reverse-path filter) # Turn on Source Address Verification in all interfaces to # prevent some spoofing attacks #net.ipv4.conf.default.rp_filter=1 #net.ipv4.conf.all.rp_filter=1 # Uncomment the next line to enable TCP/IP SYN cookies # See http://lwn.net/Articles/277146/ # Note: This may impact IPv6 TCP sessions too #net.ipv4.tcp_syncookies=1 # Uncomment the next line to enable packet forwarding for IPv4 net.ipv4.ip_forward=1</pre>	<p>In the sysctl.conf file, uncomment the line that contains “net.ipv4.ip_forward”.</p> <p>This step causes the Raspberry Pi to route network packets on boot.</p>
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25	 <pre>pi@raspberrypi: ~ pi@raspberrypi ~ \$ sudo iptables -t nat -A POSTROUTING -o tun0 -j MASQUERADE pi@raspberrypi ~ \$ sudo iptables -A FORWARD -i wlan1 -o tun0 -j ACCEPT pi@raspberrypi ~ \$ sudo iptables -A FORWARD -i tun0 -o wlan1 -m state --state RE LATED, ESTABLISHED -j ACCEPT pi@raspberrypi ~ \$</pre>	<p>WARNING: May need to change the “tun0” to “wlan0” in all cases</p> <p>Execute “sudo iptables -t nat -A POSTROUTING -o tun0 -j MASQUERADE”</p> <p>Execute “sudo iptables -A FORWARD -i wlan1 -o tun0 -j ACCEPT”</p> <p>Execute “sudo iptables -A FORWARD -i tun0 -o wlan1 -m state --state RELATED, ESTABLISHED -j ACCEPT”</p> <p>These steps configure the Raspberry Pi for NAT, configures it to forward all traffic coming in on wlan1, and returns data to the appropriate client.</p>
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26	 <pre>pi@raspberrypi: ~ pi@raspberrypi ~ \$ sudo sh -c "iptables-save > /etc/iptables.restore" pi@raspberrypi ~ \$ echo "up iptables-restore < /etc/iptables.restore" sudo tee --append /etc/network/interfaces up iptables-restore < /etc/iptables.restore pi@raspberrypi ~ \$ █</pre>	<p>Execute "sudo sh -c "iptables-save > /etc/iptables.restore"".</p> <p>Execute "echo "up iptables-restore < /etc/iptables.restore" sudo tee --append /etc/network/interfaces".</p> <p>This steps configures the routing when the Raspberry Pi boots.</p>
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