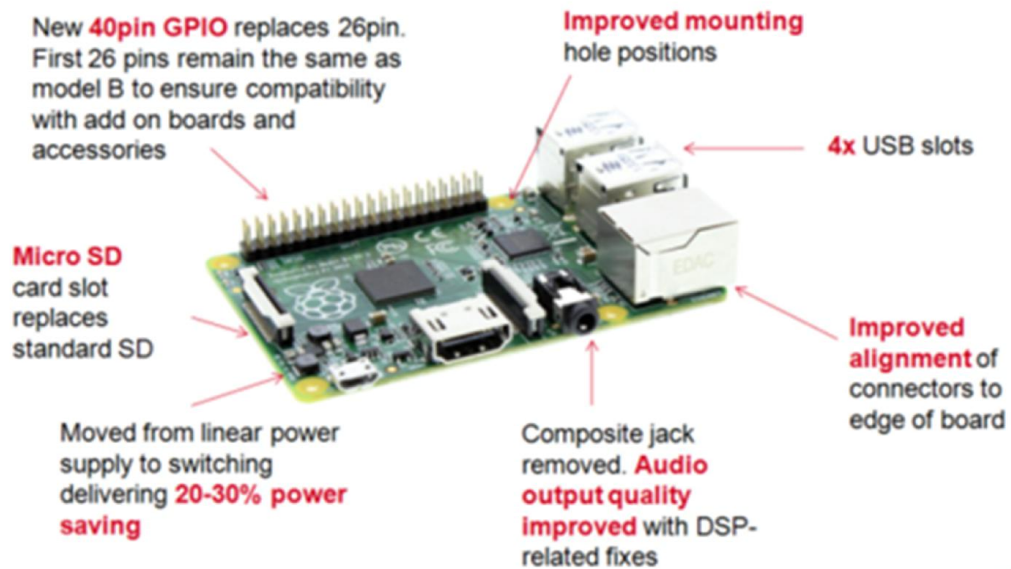


# Chapter 1: Raspberry Pi and Kali Linux Basics

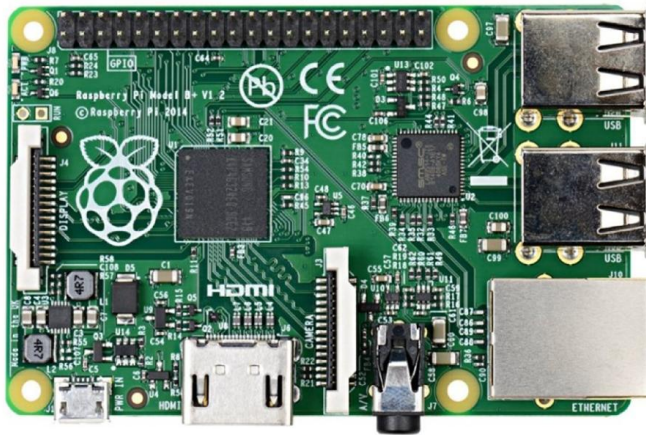
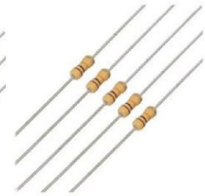
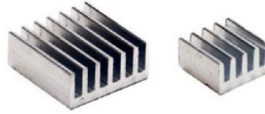


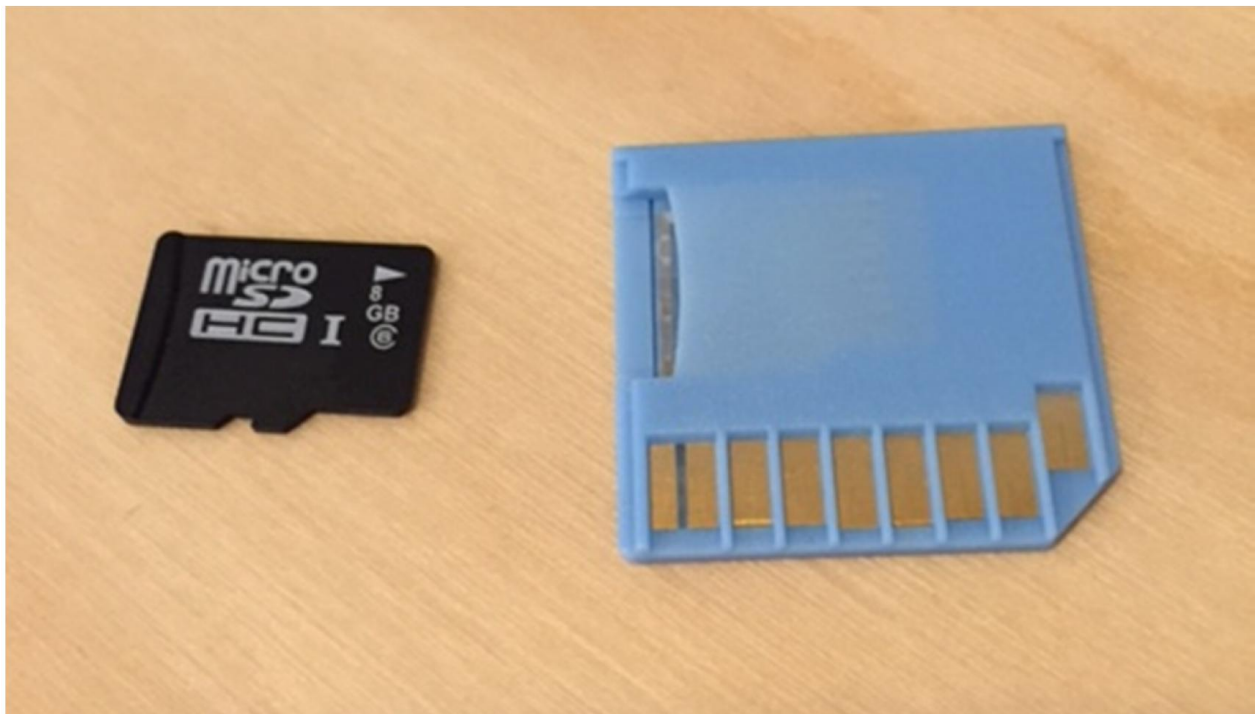


**SAMSUNG 8GB  
MicroSD with NOOBS**



**2.5A POWER SUPPLY  
(DESIGNED FOR B+)**











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### About SD Standards

The SD Association is a global ecosystem of companies setting industry-leading memory card standards.

*SD memory card* and *SD host device* are the terms for licensed products that meet SD standards.\* SD memory card standards are available in a variety of formats, capacities and speed options. An estimated 8,000-plus consumer electronics models manufactured by more than 400 brands worldwide rely on SD standards.

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- SD Association Expands iSDIO Specification, Adds High-Speed Contactless Data Transfer with TransferJet
  - SD Association Signs Collaboration Agreement with TransferJet Consortium
  - SD Association and Near Field Communication Forum Sign Collaboration Agreement
  - SD Association Hosts smartSD Workshop at CARTES
  - New SDXC and SDHC Memory Cards Now Support 4K2K Video



```
WiFi support v0.2: implementor 01 architecture 1 part 20 variant b rev 5
Waiting for root device /dev/mmcblk0p1...
mmc0: new SDHC card at address 1234
mmcblk0: mmc0:1234 3098A 3.03 GiB
mmcblk0: p1 p2 p3
ack 1-1: new high speed USB device number 2 using dw_otg
DSS: fs (mmcblk0p2): mounted filesystem with ordered data mode. Optfs: (null)
WB: Mounted root: /mnt (/dev/mmcblk0p2) on device 179-2.
Freeing init memory: 158K
ack 1-1: New USB device found, idVendor=0424, idProduct=9512
ack 1-1: New USB device strings: PVer=0, Product=0, SerialNumber=0
ack 1-1.0: USB lock found
ack 1-1.1.0: 3 ports detected
ack 1-1.1: new high speed USB device number 3 using dw_otg
ack 1-1: New USB device found, idVendor=0424, idProduct=9508
ack 1-1.1: New USB device strings: PVer=0, Product=0, SerialNumber=0
mmc0:fs v1.0.4
mmc0:fs 1-1.1.0: v1.0: register 'mmc0:fs' at sub-bus/290_ack-1.1, mmc0:fs USB 2.4 Ethernet, M-27/ack-14/53-77
ack 1-1.1: new high speed USB device number 4 using dw_otg
DSS: unmounting /mnt backing
ack 1-1.2: New USB device found, idVendor=0424, idProduct=1005
ack 1-1.2: New USB device strings: PVer=1, Product=2, SerialNumber=3
ack 1-1.2: Product: Enginboard USB
ack 1-1.2: Manufacturer: Apple Inc.
ack 1-1.2: SerialNumber: 000000000000
ack 1-1.2.0: USB lock found
ack 1-1.2.1.0: 3 ports detected
Using subfile-otgfs connection host is realized 2.
ack 1-1.2.2: new low speed USB device number 5 using dw_otg
ack 1-1.2.2: New USB device found, idVendor=0424, idProduct=1014
ack 1-1.2.2: New USB device strings: PVer=1, Product=2, SerialNumber=0
ack 1-1.2.2: Product: Apple Enginboard
ack 1-1.2.2: Manufacturer: Apple Inc.
Starting the backup process: /mnt: subod
Mounting the initial backup image: /mnt
Waiting for /mnt to be fully prepared: /mnt: Apple Inc. Apple Enginboard at /dev/mmcblk0p1-1-1-1.2.2-1-1.2.2-1.0-input-1005
apple: Apple Inc. Apple Enginboard at /dev/mmcblk0p1-1-1-1.2.2-1-1.2.2-1.0-input-1014
apple: Apple Inc. Apple Enginboard at /dev/mmcblk0p1-1-1-1.2.2-1-1.2.2-1.0-input-1014
Setting parameters of /mnt: /mnt
Setting preliminary tempup: /mnt
Mounting tempup: /mnt
DSS: fs (mmcblk0p2): re-mounted. Optfs: (null)
Cleaning up /mnttempup...
Setting up /mnttempup...
Mounting /mnttempup: /mnt
Mounting /mnt and /mnttempup: /mnt
Checking file systems...fsck from util-linux-ng 2.17.2
Done
Mounting local filesystems: /mnt
Relinking mountfile tempup: /mnt
Cleaning up temporary files...
Configuring network interfaces...
```

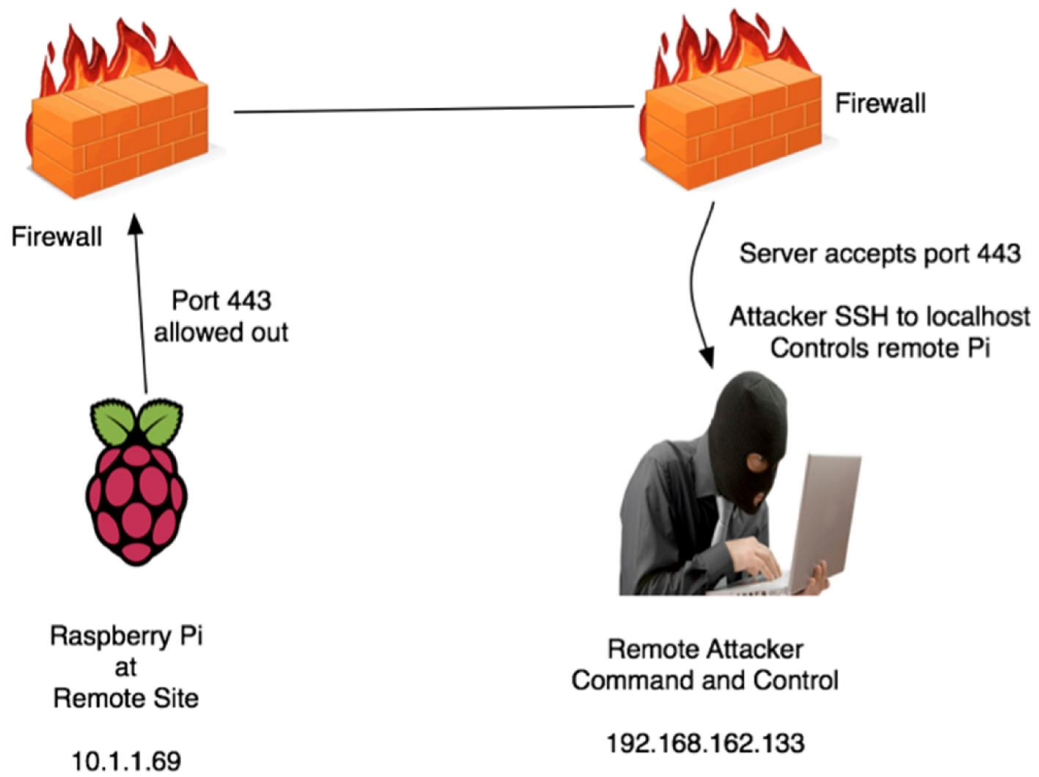
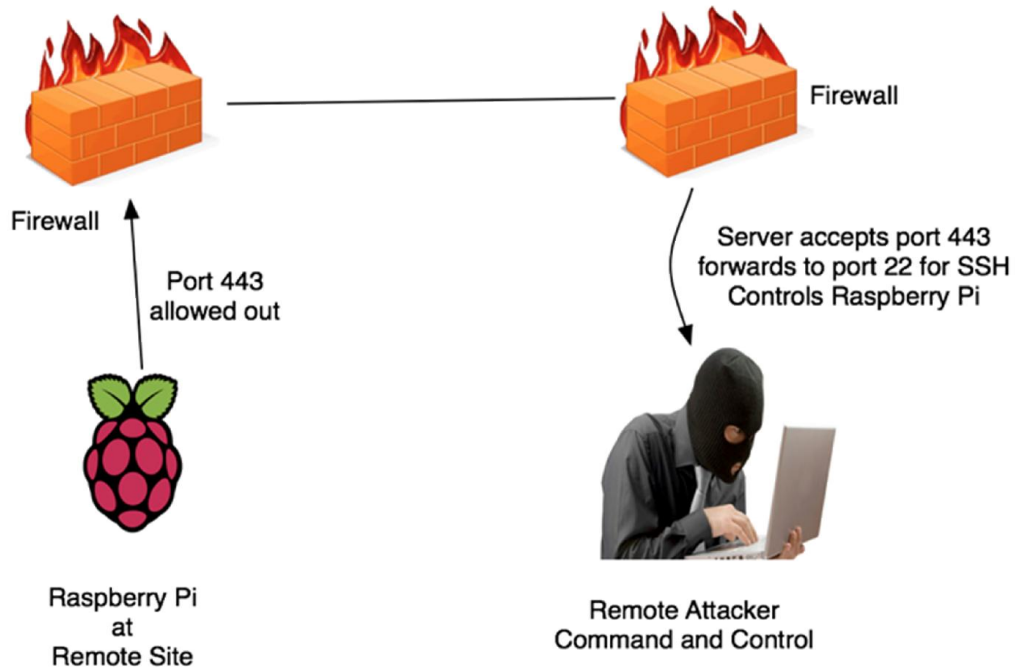
SAMSUNG

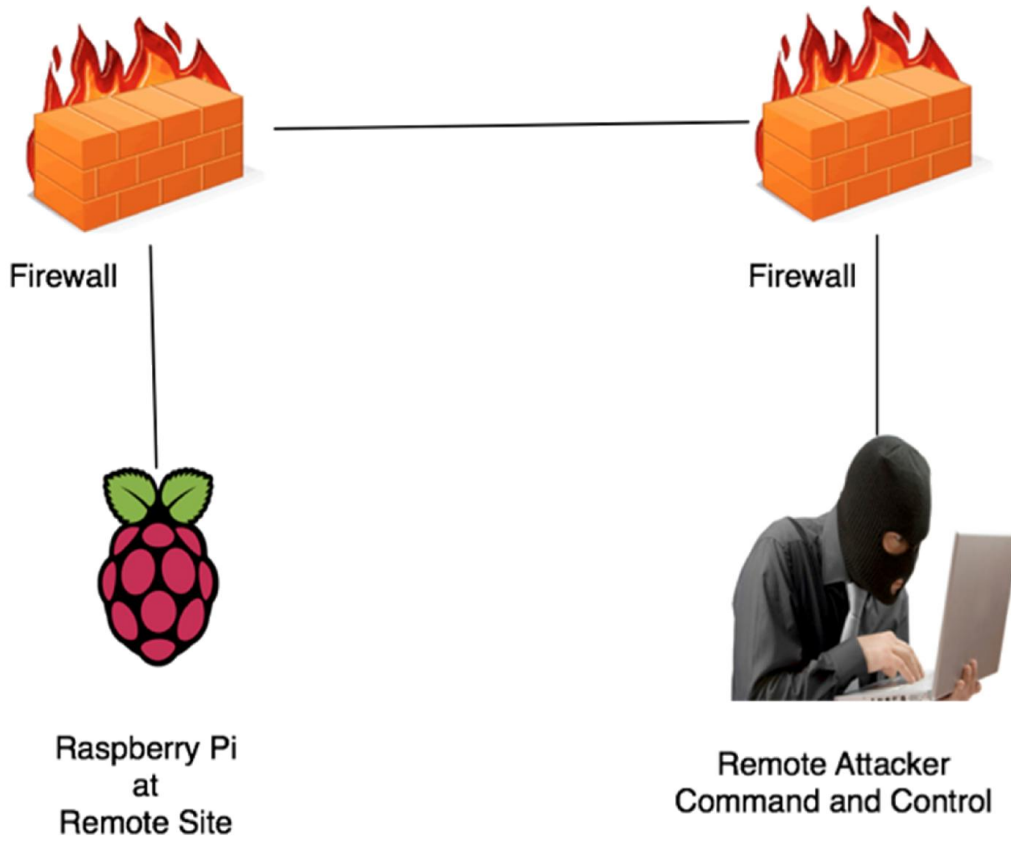


## Chapter 2: Preparing the Raspberry Pi

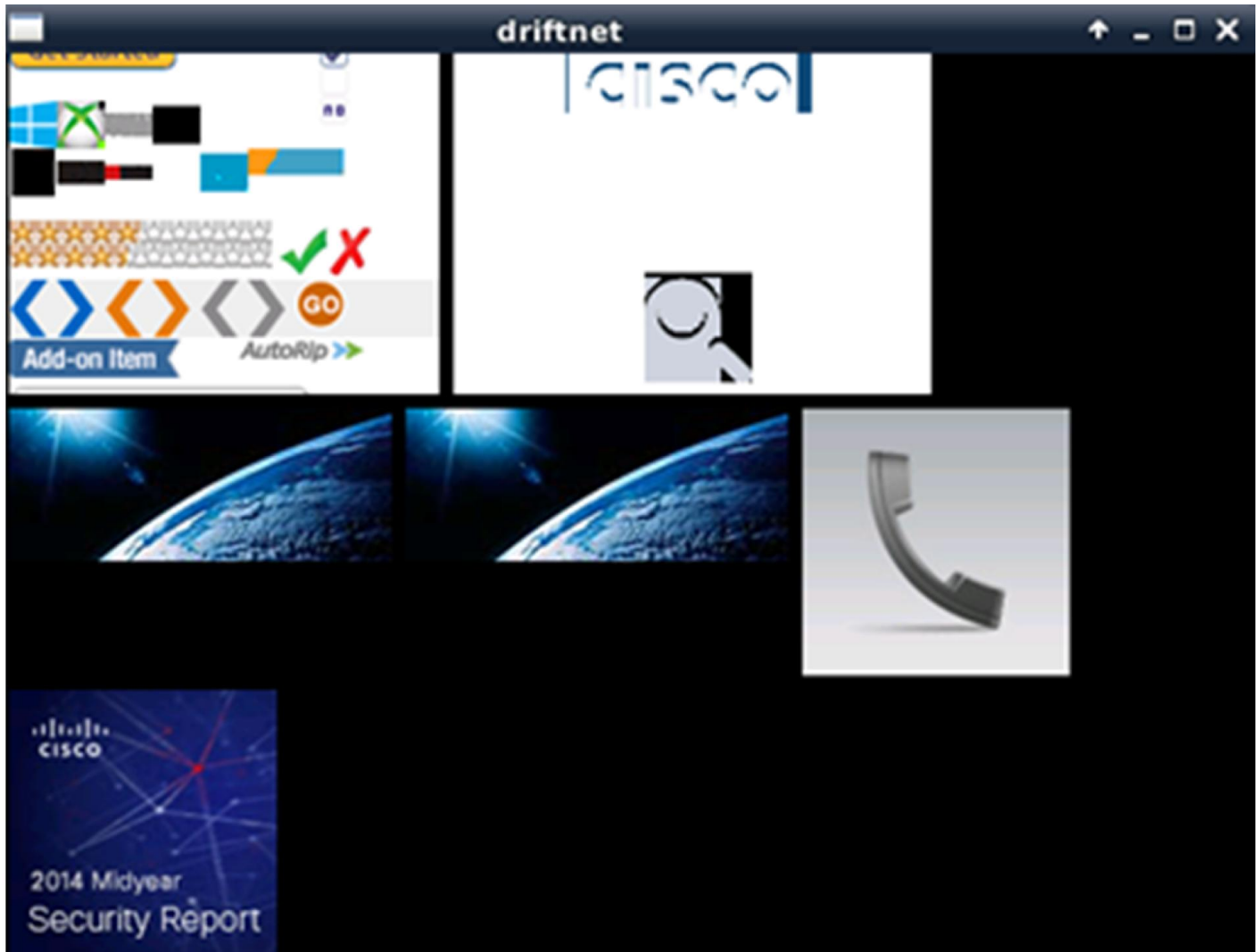


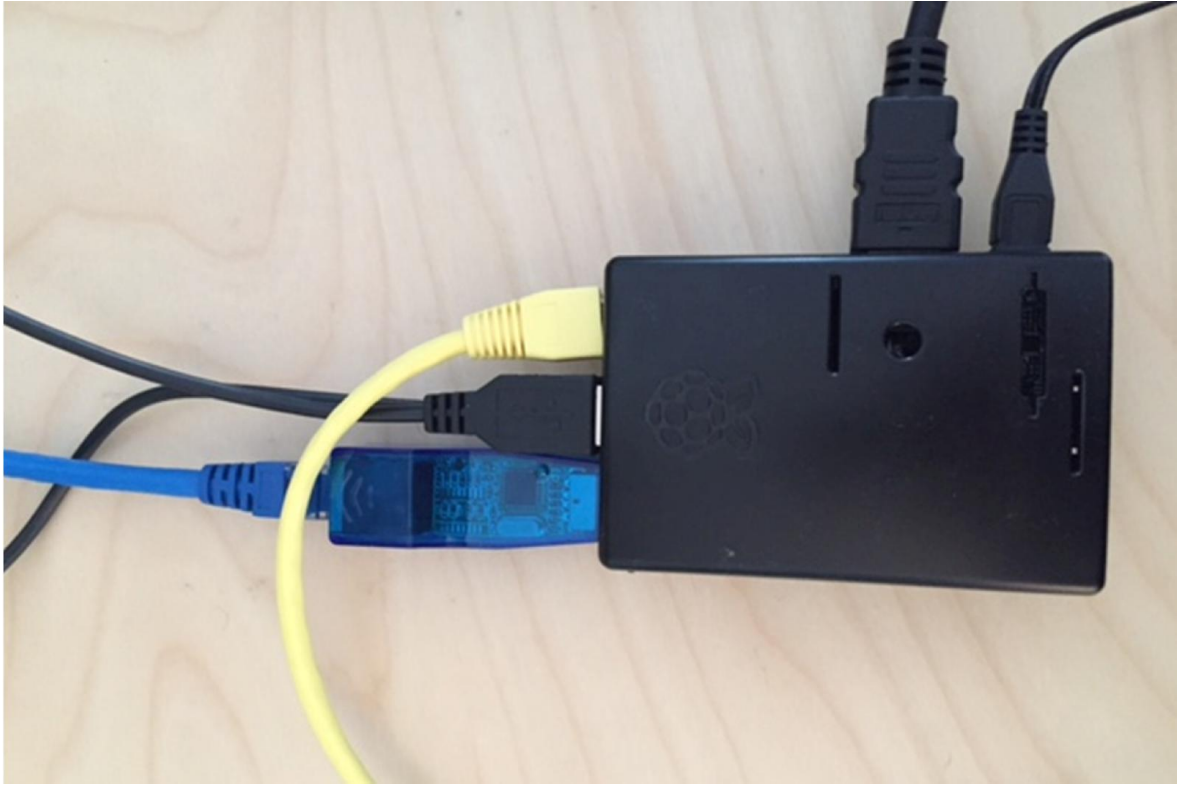






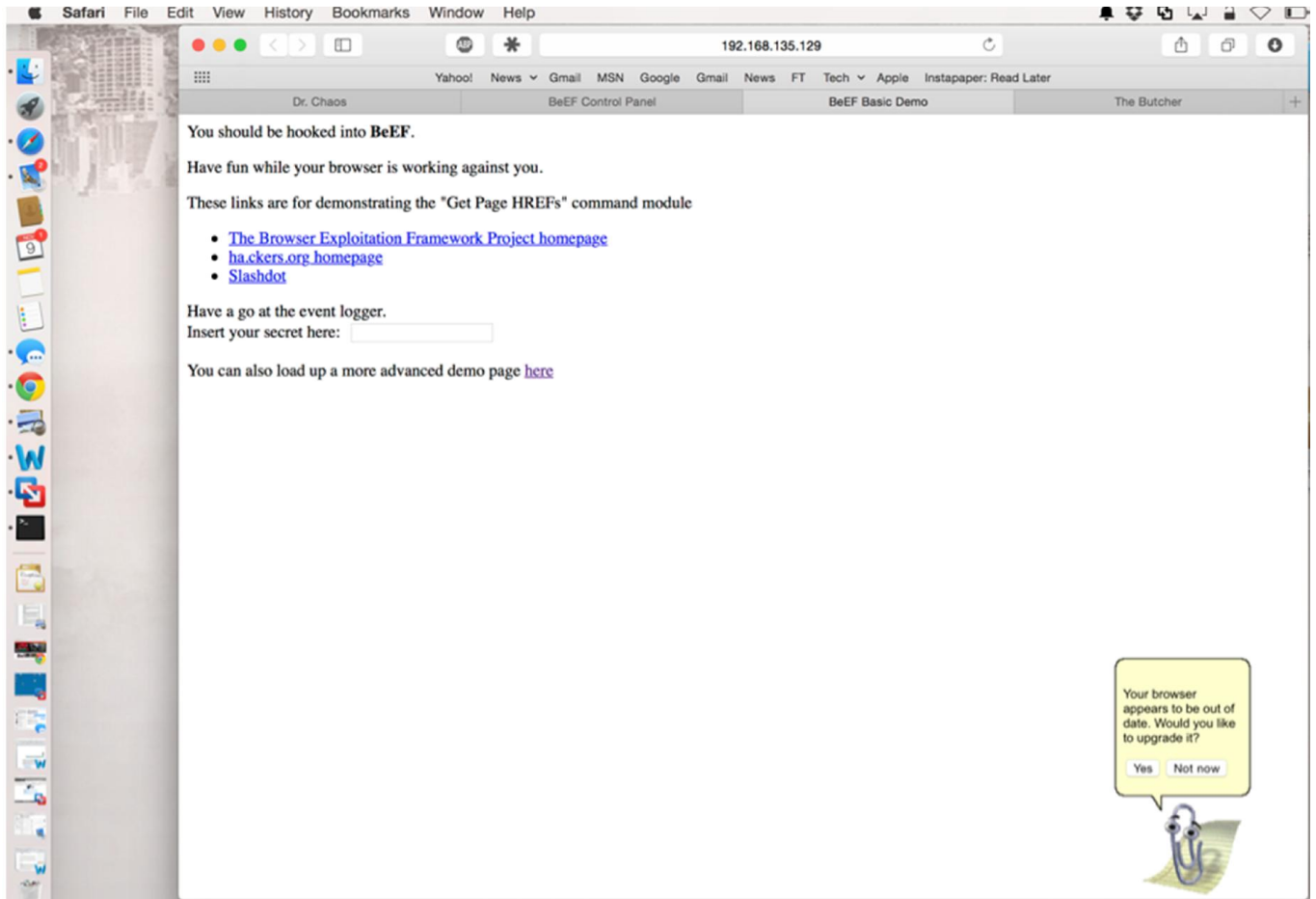
## Chapter 3: Penetration Testing







# Chapter 4: Raspberry Pi Attacks



# Chapter 6: Other Raspberry Pi Projects

The screenshot shows a Raspberry Pi terminal with system statistics on the left, a Metasploit terminal window in the center, and a Social-Engineer Toolkit (SET) interface on the right. The SET interface displays a welcome message and a menu of options.

**System Statistics:**

```

<<PwnPi 3.0 3.2.27+
  12:06
  Friday 14 December
  up 21m 53s

cpu 28% 0.70Ghz 0.58 1.47 1.05
  name pid cpu mem
  _Xtightvnc 4104 10.20% 4.55%
  _conky 4183 9.18% 1.55%
  _sleep 11040 0.00% 0.22%

ram 64% 150M/232M _swap_0%
  name pid mem cpu
  _ruby 6179 44.54% 0.00%
  _Xtightvnc 4104 4.55% 10.20%
  _openbox 4153 3.17%

hdd 89% 2.59G/2.88G
  /_
  read 0B/s
  write 12.0K/s

network tcp_port(s)2
  eth0 10.0.3.34/90.21
  down 860B/s
  up 19.0K/s

connections
  tcp 0 10.0.3.34:5901 10.0.3.32:5901
  tcp 0 10.0.3.34:22 10.0.3.32:22
  
```

**Metasploit Terminal:**

```

root@pwnpi:/pentest/exploits/framework3# ./msf
msfbinscan msfd msfgui msfpescod
msfcli msfelfscan msfnachscan msfprop
msfconsole msfencode msfpayload msfrpc
root@pwnpi:/pentest/exploits/framework3# ./msf
IIIIII dTb.dTb
II 4' v 'B
II 6' .;P'
II 'T: ;P'
II 'YvP'
IIIIII
I love shells --egypt

--=[ metasploit v4.5.0-dev [core:4.5 api:1.0]
+ -- --=[ 981 exploits - 531 auxiliary - 162 post
+ -- --=[ 262 payloads - 28 encoders - 8 nops

msf >
  
```

**Social-Engineer Toolkit (SET) Interface:**

```

sh
[---] Homepage: https://www.trustedsec.com [---]

Welcome to the Social-Engineer Toolkit (SET). Your one
stop shop for all of your social-engineering needs..

Join us on irc.freenode.net in channel #setoolkit

The Social-Engineer Toolkit is a product of TrustedSec.

Visit: https://www.trustedsec.com

Select from the menu:

1) Social-Engineering Attacks
2) Fast-Track Penetration Testing
3) Third Party Modules
4) Update the Metasploit Framework
5) Update the Social-Engineer Toolkit
6) Update SET configuration
7) Help, Credits, and About
99) Exit the Social-Engineer Toolkit

set>
  
```

**SET Menu:**

- PwnPi > Information Gathering > Vulnerability Assessment > xprobe2
- Terminal > Exploitation Tools > p0f
- File Manager > Privilege Escalation > wireshark
- Applications > Maintaining Access > tcpdump
- System > Reverse Engineering > zenmap
- Restart > Stress Testing > swar
- Exit > Services > nmap
- > Miscellaneous > netdiscover
- > hping3
- > fping
- > arp-fingerprint
- > More...

```

pi@pmberrypi / $ cd pentest
pi@pmberrypi /pentest $ ls
asp-auditor          fasttrack           metagoofil          sslstrip            wifitap
bed                  fierce              miranda             theharvester        wifite
cisco-auditing-tool fimap               plecost             ua-tester           wifizoo
cisco-global-exploiter goodfet            revshells           untidy              xssfuzz
cms-explorer         goofile            smtp-user-enum      voip                waffit
darkmysql            goohost           snmpenum            webshells           weevelly
dnsmap               install-beef.sh    sqlbrute            weevily
easy-creds           lbd
pi@pmberrypi /pentest $
  
```



```

pi@raspberrypi ~
pi@raspberrypi ~ $ sudo iptables -F
pi@raspberrypi ~ $ sudo iptables -t nat -F
pi@raspberrypi ~ $ sudo iptables -t nat -A PREROUTING -i wlan0 -p udp --dport 53
-j REDIRECT --to-ports 53
pi@raspberrypi ~ $ sudo iptables -t nat -A PREROUTING -i wlan0 -p tcp --syn -j R
EDIRECT --to-ports 9040
pi@raspberrypi ~ $ sudo iptables -t nat -L
Chain PREROUTING (policy ACCEPT)
target      prot opt source                destination            udp dpt:domain red
ir ports 53
REDIRECT    tcp  --  anywhere               anywhere               tcpflags: FIN,SYN,
RST,ACK/SYN redir ports 9040

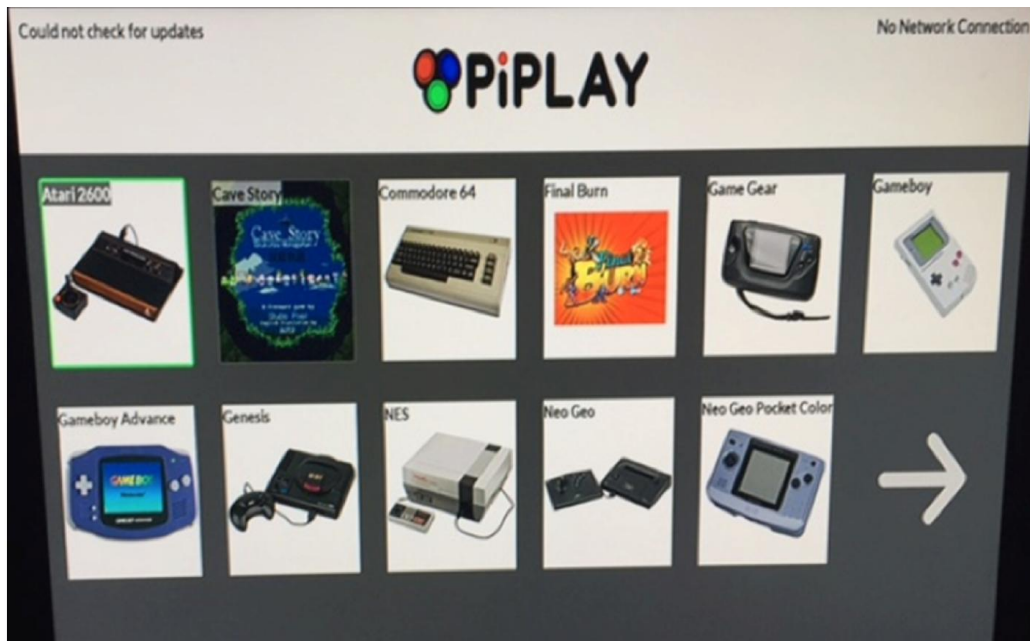
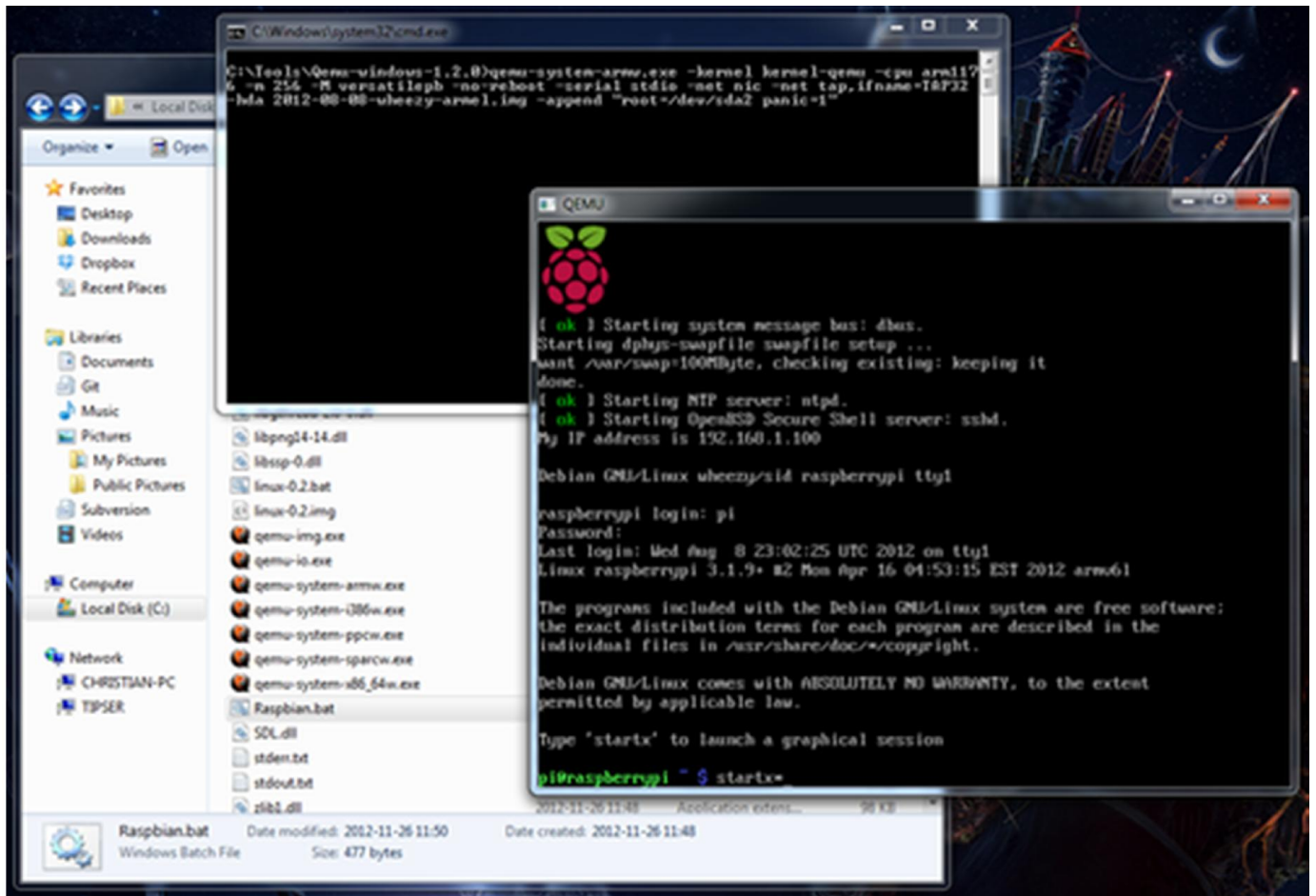
Chain INPUT (policy ACCEPT)
target      prot opt source                destination

Chain OUTPUT (policy ACCEPT)
target      prot opt source                destination

Chain POSTROUTING (policy ACCEPT)
target      prot opt source                destination
pi@raspberrypi ~ $ █

```







Could not check for updates

No Network Connection



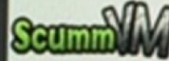
Playstation 1



SNES



ScummVM



Sega Master System



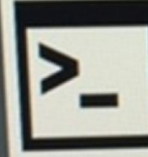
TurboGrafx 16



ZX Spectrum



Exit



Install MAME



Restart



Rom Scraper



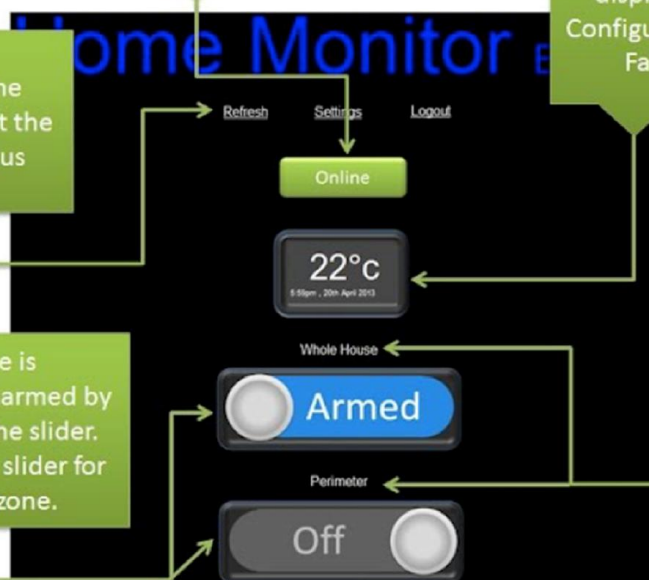
Alarm.py polls the server every 45 seconds. The indicator will go offline when the Raspberry Pi Alarm is not active.

Temperature is logged every 5 minutes, with last date/time stamp displayed below. Configurable Celsius / Fahrenheit.

Refresh the screen to get the latest status

Zone is armed/disarmed by clicking the slider. There is a slider for each zone.

This is the zone name. Zones can have many locations. Locations can belong to many zones.



# Home Monitor Beta

Refresh Settings Logout

Online

22°C

6:04pm, 20th April 2013

Whole House

Alarm

Dining Room Windows - 6:07pm, Saturday 20th April 2013

Perimeter

Off

Reset the alarm by clicking on the Alarm button

When an alarm contact is triggered each zone that contains the triggered location will display an alarm state. An email alert is sent.

A description of each triggered location is listed below the zone alarm button

There is no alarm condition for disarmed zones, but all alarm contact triggers are logged below.