

IPv4 I

Exercise

December 24, 2012

1 Basics

Answer/Discuss the following questions:

(a) What do we need to connect a system to a network?

```
ip address
default gateway
```

(b) What commands do you know to find out your ip?

```
ifconfig [INTERFACE]
ip addr show [INTERFACE]
```

(c) What important information you can spot?

```
ifconfig:
eth0 Link encap:Ethernet HWaddr 00:0F:20:CF:8B:42
inet addr:217.149.127.10 Bcast:217.149.127.63 Mask:255.255.255.192
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:2472694671 errors:1 dropped:0 overruns:0 frame:0
TX packets:44641779 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:1761467179 (1679.7 Mb) TX bytes:2870928587 (2737.9 Mb)
Interrupt:28
```

2 Virtual networking

- (a) Discuss functions, pros and cons from internal networking, NAT, Bridged

internal networking is a closed custom internal network between vms

What other