

- (a).
- ./connect.sh h1
 - Ping -c 5 h2.virtnet.com
Average round-trip time = 0.884 ms
 - Ping -c 5 h3.virtnet.com
Average round-trip time = 3.018 ms
 - Ping -c 5 h4.virtnet.com
Average round-trip time = 2.424 ms
 - Ping -c 5 h5.virtnet.com
Average round-trip time = 2.297 ms

- (b).
- host A is h2
 - host B is h3
 - Incoming ports of the http servers on Host B are 8143 and 8534.

* Commands

{	• nmap -p 21 { h2 h2, h3, h4, h5}.virtnet.com	}
	(For FTP server)	
{	• nmap -p 8000-9000 {h2, h3, h4, h5}.virtnet.com	}
	(For HTTP server)	

(c). Password is ~~use~~ user@487

- (d).
- HTTP/1.0 ^{is} ~~use~~ matched with port 8143
 - HTTP/1.1 ^{is} ~~use~~ matched with port 8534.

(e)

(e). The password for h5 is user@324

(f). my_capture.pcapng

(g). Command used: scp -P 14505 tc@localhost:/home/tc/my_capture.pcapng

(h). • google.com website was pinged

- IP returned is 172.217.166.99

- 3 ping packets received

- Minimum response time was 24.941 ms.

(i). • mosquito-taxonomic-inventory.info is the hostname of website.

- File name is Valid 20 species List-70.pdf

- Password is user@157

(j). The final msg is 42