

INFO0045: Demo of MDGA.com

Maxime Goffart (s180521)

Joris Olivier (s182113)

Academic year 2021-2022

Since it is easier to illustrate what is allow than what is forbidden, we will show an example of each of the possible actions.

1 DHCP

Show that U1 and U2 have an IP address:

```
1 U1> ifconfig
2 -----
3 U2> ifconfig
```

2 PWEB and PDNS

Show that DT can reach PWEB, using HTTP(S), and any other web pages thanks to PDNS:

```
1 DT> lynx http://www.mdga.com
2 DT> lynx https://www.mdga.com
3 DT> lynx http://www.google.be
4 DT> lynx https://www.google.be
```

3 LWEB, LDNS, and HTTP Proxy

Show that U1 can reach the local website and any other web pages thanks to LDNS and the HTTP proxy:

```
1 U1> lynx http://local.mdga.com
2 U1> lynx http://www.google.be
3 U1> lynx https://www.google.be
```

4 SSH

DT can reach HONEYPOT, 192.168.1.0/24, and 192.168.2.0/24:

```
1 DT> su - donald
2 DT> ssh HONEYPOT
3 DT> ssh U1
4 DT> ssh U2
```

U1 can reach PWEB and RSYNC:

```
1 U1> su - webteam
2 U1> ssh PWEB
3 U1> ssh RSYNC
```

U3 can reach U1, U2, HONEYPOT, and DT:

```
1 U3> su - vlad
2 U3> ssh U1
3 U3> ssh U2
4 U3> ssh HONEYPOT
5 U3> ssh DT
```

5 SCP

Webteam uses scp to transfer files to PWEB:

```
1 U1> su - webteam
2 U1> vi text.txt # can add anything inside the file
3 U1> scp text.txt PWEB:/home/webteam/
4 -----
5 PWEB> su - webteam
6 PWEB> ls
7 PWEB> cat text.txt
```

6 MAIL

Mail servers should be reachable from outside the network. So, let us send an email from DT, using donald's address, to vlad.

```
1 DT> su - donald
2 DT> mutt
```

Now, send an email to *vlad@mdga.com*. Then, switch to U3:

```
1 U1> su - vlad
2 U1> mutt
```

Now, read the email from donald. Then, respond to it. From DT, read the reply:

```
1 DT> su - donald
2 DT> mutt
```

7 RSYNC

Vlad from U3 should be able to backup to the RSYNC server:

```
1 U3> su - vlad
2 U3> rsync -v Documents/opportunity.txt vlad@10.10.3.3::backup_vlad
3 # If we want to use secured RSYNC
4 U3> rsync -v Documents/opportunity.txt vlad@10.10.3.3:/home/vlad/
```

8 NFS

HONEYPOT is sharing the /home/sharing directory with the NFS server:

```
1 HONEYPOT> cd /home/sharing
2 HONEYPOT> vi random.txt # add anything inside the file
3 -----
4 NFS> cd /home/sharing
5 NFS> cat random.txt
```

9 FTP

The webteam, from U1, can use FTP to copy data to LWEB:

```
1 U1> su - webteam
2 U1> vi test.txt # can add anything inside the file
3 U1> ftp 10.10.2.2
4 U1> ls
5 U1> put test.txt
6 U1> ls
```