INFO0045: Demo of MDGA.com

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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:

```
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:

```
DT> lynx http://www.mdga.com
DT> lynx https://www.mdga.com
DT> lynx http://www.google.be
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:

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

4 SSH

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

```
DT > su - donald
DT > ssh HONEYPOT
DT > ssh U1
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:

```
U3> su - vlad
U3> ssh U1
U3> ssh U2
U3> ssh HONEYPOT
U3> ssh DT
```

5 SCP

Webteam uses scp to transfer files to PWEB:

```
U1> su - webteam
U1> vi text.txt # can add anything inside the file
U1> scp text.txt PWEB:/home/webteam/
-----
PWEB> su - webteam
PWEB> ls
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.

```
DT> su - donald
DT> mutt
```

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

```
U3> su - vlad
2 U3> mutt
```

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

```
DT> su - donald
DT> mutt
```

7 RSYNC

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

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

```
HONEYPOT> cd /home/sharing
HONEYPOT> vi random.txt # add anything inside the file

-----
NFS> cd /home/sharing
NFS> cat random.txt
```

9 FTP

The webteam, from $\mathtt{U1},$ can use FTP to copy data to $\mathtt{LWEB}:$

```
U1> su - webteam
U1> vi test.txt # can add anything inside the file
U1> ftp 10.10.2.2
U1> ls
U1> put test.txt
U1> ls
```