Lab 6: What's in a (domain) name?

Steps To Complete Lab:

1. **Access machines and change hostnames in /etc/sysconfig/network.**

    i. Change machine A's hostname to router.dundermifflin.com.

    ii. Change machine B's hostname to carriage.dundermifflin.com.

    iii. Change machine C's hostname to platen.dundermifflin.com.

    iv. Change machine D's hostname to chase.dundermifflin.com.

    v. Change machine E's hostname to roller.dundermifflin.com.

    vi. Change machine F's hostname to saddle.dundermifflin.com.

    b. Access "/etc/dhcpd/dhcpd.conf" on machine A

    i. Change all hosts to new hostnames

    c. Reboot all machines

    d. SSH into all machines to make sure ip-address was reassigned properly

2. **Set Up Recursive DNS Server On Machine D**

    a. ssh into Machine D

    i. "yum install bind bind-utils"

    ii. "chkconfig --level 35 named on"

    iii. "mv /etc/named.conf /etc/named.conf-rh_orig"

    iv. "mv /var/named /var/named.conf-rh_orig"

    v. "mkdir /var/named" => recreate named directory

    vi. "vi /etc/named.conf" => create new named.conf file and add:

1. option { recursion yes; directory "/var/named"; listen-on

    {127.0.0.1; 100.64.24.4;}; }; allow-query {any; };

   vii.   "service named restart"

   viii.   in "/etc/resolv.conf" delete all lines and add:

      1.   nameserver 127.0.0.1

3. **Push DNS server and search path to other machines with DHCPD**

    a. on machine A in /etc/dhcpd/dhcpd.conf change domain-name-servers to

    100.64.24.4 or the address to the dns server

    b. add "option search-path "dundermifflin.com."" to file

    c. change domain-name to "dundermifflin.com."

    d. "service dhcpd restart"

    e. access all machines and type "service network restart"

    f. "ping google.com" to make sure dns is resolving on each machine

4. **Make DNS server on Machine D Authoritative**

    a. on machine D in /etc/named.conf add: "zone "dundermifflin.com." { type

    master; file "dundermifflin.com."; };

    b. create a file called "/var/named/dundermifflin.com." and edit to make picture

    below

    c. dig each record and check results

```
$TTL 300
dundermifflin.com.        SOA       chase.dundermifflin.com. postmaster.dundermifflin.com.
( 2014072901 3600 1800 604800 300 )
dundermifflin.com.        NS        chase.dundermifflin.com.
dundermifflin.com.        A         100.64.24.2
carriage.dundermifflin.com.         A         100.64.24.2
platen.dundermifflin.com.           A         100.64.24.3
chase.dundermifflin.com.            A         100.64.24.4
roller.dundermifflin.com.           A         10.21.32.2
saddle.dundermifflin.com.           A         100.64.24.5
router.dundermifflin.com.           A         100.64.0.24
www.dundermifflin.com.    604800    CNAME     dundermifflin.com.
ftp.dundermifflin.com.    604800    CNAME     platen.dundermifflin.com.
files.dundermifflin.com.            604800    CNAME     roller.dundermifflin.com.
www2.dundermifflin.com.   604800    CNAME     saddle.dundermifflin.com.




~
~
~
~
~
~
~
"/var/named/dundermifflin.com." 18L, 691C
```