CN LAB TASK

```
anaconda3) ali@p180058:~$ sudo docker run --name DNS1 -it centos
sudo] password for ali:
root@f7b5ca616c1b /]# yum install bind*
                                                                            1.8 MB/s | 5.8 MB
957 kB/s | 2.2 MB
4.3 kB/s | 8.1 kB
CentOS-8 - AppStream´
CentOS-8 - Base
CentOS-8 - Extras
Package bind-export-libs-32:9.11.13-5.el8_2.x86_64 is already installed.
Dependencies resolved.
Package
                                     Architecture Version
                                     x86 64
                                                     32:9.11.13-6.el8 2.1
                                                                                    AppStream
                                                     32:9.11.13-6.el8_2.1
bind-chroot
bind-devel
                                                    32:9.11.13-6.el8 2.1
                                                                                   AppStream
                                   x86_64
x86_64
x86_64
bind-export-devel
                                                                                                        403 k
                                                    32:9.11.13-6.el8_2.1
                                                                                                        172 k
                                   noarch
                                                                                                        101 k
bind-lite-devel
                                                                                    AppStream
                                   x86_64
                                                                                                        389 k
bind-pkcs11-devel
                                                                                    AppStream
                                     x86_64
                                                     32:9.11.13-6.el8_2.1
bind-pkcs11-utils
                                                    32:9.11.13-6.el8 2.1
                                                                                                        449 k
                                                     32:9.11.13-6.el8_2.1
bind-sdb-chroot
                                                                                    AppStream
                                                                                                        102 k
                                     x86_64
Upgrading:
                                     x86_64
                                                                                                        102 k
nstalling dependencies:
```

```
GNU nano 2.9.8
                                                    ifcfq-ens3
# Generated by dracut initrd
NAME="ens3"
DEVICE="ens3"
ONBOOT="yes"
NETBOOT="yes"
UUID="82eebe16-4fc7-4de7-aff9-dafc78e97773"
IPV6INIT="yes"
BOOTPROTO="static"
TYPE="Ethernet"
PROXY METHOD="none"
BROWSER ONLY="no"
DEFROUTE="yes"
IPV4 FAILURE FATAL="no"
IPV6 AUTOCONF="yes"
IPV6 DEFROUTE="ves"
IPV6_FAILURE_FATAL="no"
IPADDR=172.17.0.2
NETMASK=255.255.0.0
GATEWAY=172.17.0.1
```

ıπ

@ab825d81a928:/etc/sysconfig

GNU nano 2.9.8

network

Created by anaconda
NETWORKING=yes
HOSTNAME=dns2.p180058.com
NTPSERVERARGS=iburst

GNU nano 2.9.8

hosts

127.0.0.1 localhost

::1 localhost ip6-localhost ip6-loopback

fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters

172.17.0.2 dns1.p180058.com

GNU nano 2.9.8

resolv.conf

```
This file is managed by man:systemd-resolved(8). Do not edit.

# This is a dynamic resolv.conf file for connecting local clients directly to # all known uplink DNS servers. This file lists all configured search domains.

# Third party programs must not access this file directly, but only through the # symlink at /etc/resolv.conf. To manage man:resolv.conf(5) in a different way, # replace this symlink by a static file or a different symlink.

# See man:systemd-resolved.service(8) for details about the supported modes of # operation for /etc/resolv.conf.

search p180058.com
nameserver 172.17.0.2
```

```
GNU nano 2.9.8
                                                       named.conf
// Provided by Red Hat bind package to configure the ISC BIND named(8) DNS
// server as a caching only nameserver (as a localhost DNS resolver only).
/ See /usr/share/doc/bind*/sample/ for example named configuration files.
        listen-on-v6 port 53 { ::1; };
                          "/var/named";
"/var/
        directory
        dump-file "/var/named/data/cache_dump.db";
statistics-file "/var/named/data/named_stats.txt";
        memstatistics-file "/var/named/data/named mem stats.txt";
        secroots-file "/var/named/data/named.secroots";
recursing-file "/var/named/data/named.recursing";
        allow-query
         - If you are building an AUTHORITATIVE DNS server, do NOT enable recursion.
         - If your recursive DNS server has a public IP address, you MUST enable access
           control to limit queries to your legitimate users. Failing to do so will
           attacks. Implementing BCP38 within your network would greatly
           reduce such attack surface
```

```
GNU nano 2.9.8
                                              named.rfc1912.zones
// named.rfc1912.zones:
// Provided by Red Hat caching-nameserver package
// ISC BIND named zone configuration for zones recommended by
// RFC 1912 section 4.1 : localhost TLDs and address zones
// and https://tools.ietf.org/html/rfc6303
// (c)2007 R W Franks
// See /usr/share/doc/bind*/sample/ for example named configuration files.
// Note: empty-zones-enable yes; option is default.
// If private ranges should be forwarded, add
// disable-empty-zone "."; into options
zone "p180058.com" IN {
        type master;
        file "forward.zone";
        allow-update { none; };
};
        type master;
```

```
[root@ab825d81a928 named]# chgrp named /var/named/forward.zone
[root@ab825d81a928 named]# chgrp named /var/named/reverse.zone
[root@ab825d81a928 named]#
```

```
(anaconda3) ali@p180058:~$ sudo docker run --name client -it centos [sudo] password for ali:
Sorry, try again.
[sudo] password for ali:
[root@af2f0edac221 /]# ■
```

This file is managed by man:systemd-resolved(8). Do not edit.

This is a dynamic resolv.conf file for connecting local clients directly to # all known uplink DNS servers. This file lists all configured search domains.

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See man:systemd-resolved.service(8) for details about the supported modes of # operation for /etc/resolv.conf.

nameserver 172.17.0.2