

Computer Networks – Lab
Fall 2020

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P18-0030
Section B

Installing utilities after creating container using centos image:

```
(base) momina@death-eater:~$ sudo docker run --name dns-task -it centos
[root@762d427ea2b9 /]# ifconfig
bash: ifconfig: command not found
[root@762d427ea2b9 /]# yum install net-tools
Failed to set locale, defaulting to C.UTF-8
CentOS-8 - AppStream                19 kB/s | 5.8 MB      05:08
CentOS-8 - Base                     239 kB/s | 2.2 MB     00:09
CentOS-8 - Extras                   5.8 kB/s | 8.1 kB     00:01
Dependencies resolved.
=====
Package                        Architecture      Version           Repository        Size
=====
Installing:
net-tools                      x86_64            2.0-0.51.20160912git.el8      BaseOS            323 k
```

Installing bind in container:

```
[root@762d427ea2b9 /]# yum install bind*
Failed to set locale, defaulting to C.UTF-8
Last metadata expiration check: 0:06:28 ago on Mon Oct 5 07:15:07 2020.
Package bind-export-libs-32:9.11.13-5.el8_2.x86_64 is already installed.
Dependencies resolved.
=====
Package                        Architecture      Version
=====
Installing:
bind                          x86_64            32:9.11.13-6.el8
bind-chroot                   x86_64            32:9.11.13-6.el8
bind-devel                     x86_64            32:9.11.13-6.el8
bind-export-devel              x86_64            32:9.11.13-6.el8
bind-libs                      x86_64            32:9.11.13-6.el8
bind-libs-lite                 x86_64            32:9.11.13-6.el8
bind-libs-devel                x86_64            32:9.11.13-6.el8
```

Modifying ifcfg-ens3 file:

```
# 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="yes"
IPV6_FAILURE_FATAL="no"
IPADDR=172.17.0.2
NETMASK=255.255.0.0
GATEWAY=172.17.0.1
~
~
~
~
/etc/sysconfig/network-scripts/ifcfg-ens3" 19L, 374C 8,17 All
```

Modifying network file:

```
# Created by anaconda
NETWORKING=yes
HOSTNAME=p180030.com
NTPSERVERARGS=iburst

...

"/etc/sysconfig/network" 4L, 79C
```

Modifying hosts file:

[illegible]

Modifying resolv.conf file:

[illegible]

Modifying named.conf file:


```
zone "0.17.172.in-addr.arpa" IN {  
    type master;  
    file "reverse.zone";  
    allow-update { none; };  
};
```

Modifying forward.zone file:

[illegible]

Modifying reverse.zone file:

CLIENT SIDE:

Installing bind:

```
[root@b950982753e7 /]# yum install -y bind*
Failed to set locale, defaulting to C.UTF-8
Last metadata expiration check: 7:35:56 ago on Mon Oct  5 07:41:33 2020.
Package bind-32:9.11.13-6.el8_2.1.x86_64 is already installed.
Package bind-chroot-32:9.11.13-6.el8_2.1.x86_64 is already installed.
Package bind-devel-32:9.11.13-6.el8_2.1.x86_64 is already installed.
Package bind-export-devel-32:9.11.13-6.el8_2.1.x86_64 is already installed.
Package bind-export-libs-32:9.11.13-6.el8_2.1.x86_64 is already installed.
Package bind-libs-32:9.11.13-6.el8_2.1.x86_64 is already installed.
Package bind-libs-lite-32:9.11.13-6.el8_2.1.x86_64 is already installed.
Package bind-license-32:9.11.13-6.el8_2.1.noarch is already installed.
Package bind-lite-devel-32:9.11.13-6.el8_2.1.x86_64 is already installed.
Package bind-pkcs11-32:9.11.13-6.el8_2.1.x86_64 is already installed.
Package bind-pkcs11-devel-32:9.11.13-6.el8_2.1.x86_64 is already installed.
Package bind-pkcs11-libs-32:9.11.13-6.el8_2.1.x86_64 is already installed.
Package bind-pkcs11-utils-32:9.11.13-6.el8_2.1.x86_64 is already installed.
Package bind-sdb-32:9.11.13-6.el8_2.1.x86_64 is already installed.
Package bind-sdb-chroot-32:9.11.13-6.el8_2.1.x86_64 is already installed.
Package bind-utils-32:9.11.13-6.el8_2.1.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@b950982753e7 /]#
```

Modifying resolv.conf file:

[illegible]