Module 8: Server configurations Assignment

1 - Configure Local and remote resolver

```
[root@centos7 ~]#
[root@centos7 ~]# nmtui
[root@centos7 ~]#
[root@centos7 ~]# systemctl restart network
[root@centos7 ~]# ping www.yahoo.com
PING atsv2-fp.wg1.b.yahoo.com (46.228.47.114) 56(84) bytes of data.
64 bytes from www.yahoo.com (46.228.47.114): icmp_seq=1 ttl=54 time=62.0 ms
[root@centos7 ~]#
[root@centos7 ~]# cat /etc/sysconfig/network-scripts/ifcfg-enp0s3
TYPE=Ethernet
BOOTPROTO=none
DEFROUTE=yes
IPV4 FAILURE FATAL=yes
IPV6INIT=no
IPV6 AUTOCONF=ves
IPV6_DEFROUTE=yes
IPV6 FAILURE FATAL=no
IPV6_ADDR_GEN_MODE=stable-privacy
NAME=enp0s3
UUID=99fbbfe4-813a-4784-a2b2-b589a0b955cd
DEVICE=enp0s3
ONBOOT=yes
IPV6 PEERDNS=yes
IPV6_PEERROUTES=yes
IPADDR=192.168.1.22
PREFIX=24
GATEWAY=192.168.1.1
DNS1=192.168.1.1
[root@centos7 ~]#
[root@centos7 ~]# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.22 netmask 255.255.255.0 broadcast 192.168.1.255
    ether 08:00:27:77:24:5a txqueuelen 1000 (Ethernet)
    RX packets 19 bytes 1571 (1.5 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 164 bytes 16638 (16.2 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

...

[root@centos7 ~]#

[root@centos7 ~]# vi /etc/resolv.conf

[root@centos7 ~]# cat /etc/resolv.conf

Generated by NetworkManager

search server1.com

nameserver 192.168.1.1

[root@centos7 ~]#

[root@centos7 ~]# cat /etc/hosts

192.168.1.22 centos7.server1.com

127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4

::1 localhost localhost.localdomain localhost6 localhost6.localdomain6

[root@centos7 ~]#

[root@centos7 ~]# systemctl restart network

[root@centos7 ~]#

[root@centos7 ~]# hostname

centos7.server1.com

[root@centos7 ~]#

2 – List the DNS packages and its configuration files

[root@centos7 ~]#

[root@centos7 ~]# yum install unbound -y

Loaded plugins: fastestmirror, langpacks

Loading mirror speeds from cached hostfile

...

root@centos7 ~]#

[root@centos7 ~]# ls -lh /etc/unbound/unbound.conf

-rw-r--r-. 1 root root 22K May 21 09:03 /etc/unbound/unbound.conf

[root@centos7 ~]#

[root@centos7 ~]# rpm -ql unbound

/etc/sysconfig/unbound

/etc/unbound/conf.d

/etc/unbound/conf.d/example.com.conf

/etc/unbound/keys.d

/etc/unbound/keys.d/example.com.key

/etc/unbound/local.d

. . .

3 – Start DNS service permanently

[root@centos7 ~]#

[root@centos7 ~]# systemctl enable unbound.service

Created symlink from /etc/systemd/system/multi-user.target.wants/unbound.service to /usr/lib/systemd/system/unbound.service.

```
[root@centos7 ~]#
[root@centos7 ~]# systemctl start unbound.service
[root@centos7 ~]#
[root@centos7 ~]# unbound-control status
version: 1.4.20
verbosity: 1
threads: 2
modules: 2 [ validator iterator ]
uptime: 5 seconds
unbound (pid 4414) is running...
[root@centos7 ~]#
[root@centos7 ~]#
[root@centos7 ~]# systemctl status unbound.service
• unbound.service - Unbound recursive Domain Name Server
 Loaded: loaded (/usr/lib/systemd/system/unbound.service; enabled; vendor preset: disabled)
 Active: active (running) since Sun 2017-05-21 08:40:44 EDT; 7min ago
 Process: 4411 ExecStartPre=/usr/sbin/unbound-anchor -a /var/lib/unbound/root.key -c
/etc/unbound/icannbundle.pem (code=exited, status=0/SUCCESS)
 Process: 4409 ExecStartPre=/usr/sbin/unbound-checkconf (code=exited, status=0/SUCCESS)
Main PID: 4414 (unbound)
 CGroup: /system.slice/unbound.service
       4414 /usr/sbin/unbound -d
May 21 08:40:44 centos7.server1.com systemd[1]: Starting Unbound recursive Domain Name Server...
May 21 08:40:44 centos7.server1.com unbound-checkconf[4409]: unbound-checkconf: no errors in
/etc/unbound/...onf
May 21 08:40:44 centos7.server1.com systemd[1]: Started Unbound recursive Domain Name Server.
May 21 08:40:44 centos7.server1.com unbound[4414]: [4414:0] notice: init module 0: validator
May 21 08:40:44 centos7.server1.com unbound[4414]: [4414:0] notice: init module 1: iterator
May 21 08:40:44 centos7.server1.com unbound[4414]: May 21 08:40:44 unbound[4414:0] warning:
increased lim...8290
May 21 08:40:44 centos7.server1.com unbound[4414]: [4414:0] info: start of service (unbound 1.4.20).
Hint: Some lines were ellipsized, use -l to show in full.
[root@centos7 ~]#
[root@centos7 ~]# vi /etc/unbound/unbound.conf
[root@centos7 ~]#
[root@centos7 ~]# unbound-checkconf
unbound-checkconf: no errors in /etc/unbound/unbound.conf
[root@centos7 ~]#
[root@centos7 ~]#
[root@centos7 ~]#
[root@centos7 ~]# systemctl restart unbound.service
[root@centos7 ~]#
[root@centos7 ~]# firewall-cmd --permanent --add-service=dns
success
```

```
[root@centos7 ~]#
[root@centos7 ~]# firewall-cmd --reload
success
[root@centos7 ~]#
[root@centos7 ~]#
[root@centos7 ~]# systemctl status unbound.service
• unbound.service - Unbound recursive Domain Name Server
 Loaded: loaded (/usr/lib/systemd/system/unbound.service; enabled; vendor preset: disabled)
 Active: active (running) since Sun 2017-05-21 09:05:27 EDT; 1min 24s ago
 Process: 4834 ExecStartPre=/usr/sbin/unbound-anchor -a /var/lib/unbound/root.key -c
/etc/unbound/icannbundle.pem (code=exited, status=0/SUCCESS)
 Process: 4833 ExecStartPre=/usr/sbin/unbound-checkconf (code=exited, status=0/SUCCESS)
Main PID: 4839 (unbound)
 CGroup: /system.slice/unbound.service
       └─4839 /usr/sbin/unbound -d
May 21 09:05:27 centos7.server1.com systemd[1]: Starting Unbound recursive Domain Name Server...
May 21 09:05:27 centos7.server1.com unbound-checkconf[4833]: unbound-checkconf: no errors in
/etc/unbound/...onf
May 21 09:05:27 centos7.server1.com systemd[1]: Started Unbound recursive Domain Name Server.
May 21 09:05:27 centos7.server1.com unbound[4839]: May 21 09:05:27 unbound[4839:0] warning:
increased lim...8266
May 21 09:05:27 centos7.server1.com unbound[4839]: May 21 09:05:27 unbound[4839:0] error: Could
not open ...nied
May 21 09:05:27 centos7.server1.com unbound[4839]: May 21 09:05:27 unbound[4839:0] notice: init
module 0:...ator
May 21 09:05:27 centos7.server1.com unbound[4839]: May 21 09:05:27 unbound[4839:0] notice: init
module 1:...ator
May 21 09:05:27 centos7.server1.com unbound[4839]: May 21 09:05:27 unbound[4839:0] info: start
of service...20).
Hint: Some lines were ellipsized, use -l to show in full.
[root@centos7 ~]# unbound-control status
version: 1.4.20
verbosity: 1
threads: 2
modules: 2 [ validator iterator ]
uptime: 92 seconds
unbound (pid 4839) is running...
[root@centos7 ~]#
[root@centos7 ~]#
[root@centos7 ~]# dig apache.org
; <<>> DiG 9.9.4-RedHat-9.9.4-37.el7 <<>> apache.org
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 48890
;; flags: gr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1
```

```
;; OPT PSEUDOSECTION:
```

; EDNS: version: 0, flags:; udp: 4096

;; QUESTION SECTION:

;apache.org. IN A

;; ANSWER SECTION:

apache.org. 1800 IN A 88.198.26.2 apache.org. 1800 IN A 140.211.11.105

;; Query time: 55 msec

;; SERVER: 192.168.1.1#53(192.168.1.1) ;; WHEN: Sun May 21 10:55:28 EDT 2017

;; MSG SIZE rcvd: 71

[root@centos7 ~]# [root@centos7 ~]#

4 – Verify DNS connectivity

Verify DNS connectivity from the DNS SERVER 1 Machine

```
[root@centos7 ~]#
[root@centos7 ~]# dig apache.org @8.8.8.8
; <<>> DiG 9.9.4-RedHat-9.9.4-37.el7 <<>> apache.org @8.8.8.8
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 63254
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
;apache.org. IN A
```

;; ANSWER SECTION:

apache.org. 1261 IN A 140.211.11.105 apache.org. 1261 IN A 88.198.26.2

;; Query time: 51 msec

;; SERVER: 8.8.8.8#53(8.8.8.8)

;; WHEN: Sun May 21 10:56:00 EDT 2017

```
;; MSG SIZE rcvd: 71
[root@centos7 ~]#
[root@centos7 ~]#
Verify DNS connectivity Remotely from the CLIENT SERVER 2 Machine
[root@client-example ~]#
[root@client-example ~]# ifconfig eth0
eth0
       Link encap:Ethernet HWaddr 08:00:27:3C:6D:90
     inet addr:192.168.1.3 Bcast:192.168.1.255 Mask:255.255.255.0
     inet6 addr: fe80::a00:27ff:fe3c:6d90/64 Scope:Link
     UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
     RX packets:4772 errors:0 dropped:0 overruns:0 frame:0
     TX packets:3677 errors:0 dropped:0 overruns:0 carrier:0
     collisions:0 txqueuelen:1000
     RX bytes:534165 (521.6 KiB) TX bytes:223180 (217.9 KiB)
[root@client-example ~]#
[root@client-example ~]# ping 192.168.1.22
PING 192.168.1.22 (192.168.1.22) 56(84) bytes of data.
64 bytes from 192.168.1.22: icmp_seq=1 ttl=64 time=1.16 ms
[root@client-example ~]#
[root@client-example ~]# dig lemonde.fr @192.168.1.22
; <<>> DiG 9.8.2rc1-RedHat-9.8.2-0.17.rc1.el6_4.6 <<>> lemonde.fr @192.168.1.22
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 42064
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 0
;; QUESTION SECTION:
;lemonde.fr.
                          IN
                                 Α
;; ANSWER SECTION:
lemonde.fr.
                    2352 IN
                                 A
                                        93.184.220.20
;; Query time: 224 msec
;; SERVER: 192.168.1.22#53(192.168.1.22)
;; WHEN: Sat May 20 17:02:58 2017
;; MSG SIZE rcvd: 44
[root@client-example ~]#
[root@client-example ~]# dig lemonde.fr
```

```
; <<>> DiG 9.8.2rc1-RedHat-9.8.2-0.17.rc1.el6_4.6 <<>> lemonde.fr
;; global options: +cmd
;; Got answer:
:; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 48227
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 0
;; QUESTION SECTION:
:lemonde.fr.
                          IN
                                 Α
;; ANSWER SECTION:
lemonde.fr.
                    3600 IN
                                 Α
                                        93.184.220.20
;; Query time: 54 msec
;; SERVER: 192.168.1.1#53(192.168.1.1)
;; WHEN: Sat May 20 17:03:07 2017
:; MSG SIZE rcvd: 44
[root@client-example ~]# vi /etc/resolv.conf
[root@client-example ~]# cat /etc/resolv.conf
# Generated by NetworkManager
domain NB
search NB
nameserver 192.168.1.22
[root@client-example ~]# dig lemonde.fr
; <<>> DiG 9.8.2rc1-RedHat-9.8.2-0.17.rc1.el6_4.6 <<>> lemonde.fr
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 37555
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 0
;; QUESTION SECTION:
:lemonde.fr.
                          IN
                                 Α
;; ANSWER SECTION:
lemonde.fr.
                   2280 IN
                                 Α
                                       93.184.220.20
;; Query time: 0 msec
;; SERVER: 192.168.1.22#53(192.168.1.22)
;; WHEN: Sat May 20 17:04:05 2017
;; MSG SIZE rcvd: 44
[root@client-example ~]#
```

<u>5 – Configure dhcp ip in your system</u>

Configure DHCP Sever ip in your system (Server1 Machine)

[root@centos7 ~]#

[root@centos7 ~]# **yum install dhcp -y** Loaded plugins: fastestmirror, langpacks Loading mirror speeds from cached hostfile

- * base: mirror.dataone.nl
- * extras: mirror.colocenter.nl
- * updates: mirrors.supportex.net

Resolving Dependencies

- --> Running transaction check
- ---> Package dhcp.x86_64 12:4.2.5-47.el7.centos will be installed
- --> Finished Dependency Resolution

Dependencies Resolved

=======	=======================================		========	========	=====
Package	Arch	Version	Repository	Size	:=====
====== Installing: dhcp	x86_64	12:4.2.5-47.el7.centos	base	511 k	
Transaction Summary ====================================					
Install 1 Pag	:======= :kage	=======================================			

Install 1 Package

Total download size: 511 k Installed size: 1.4 M Downloading packages:

dhcp-4.2.5-47.el7.centos.x86_64.rpm | 511 kB 00:00:01

Running transaction check Running transaction test Transaction test succeeded Running transaction

Installed:

dhcp.x86_64 12:4.2.5-47.el7.centos

```
Complete!
[root@centos7 ~]#
[root@centos7 ~]# systemctl status dhcp
Unit dhcp.service could not be found.
[root@centos7 ~]#
[root@centos7 ~]# systemctl enable dhcp
Failed to execute operation: Access denied
[root@centos7 ~]# systemctl status dhcpd
• dhcpd.service - DHCPv4 Server Daemon
 Loaded: loaded (/usr/lib/systemd/system/dhcpd.service; disabled; vendor preset: disabled)
 Active: inactive (dead)
   Docs: man:dhcpd(8)
      man:dhcpd.conf(5)
[root@centos7 ~]# systemctl enable dhcpd
Created symlink from /etc/systemd/system/multi-user.target.wants/dhcpd.service to
/usr/lib/systemd/system/dhcpd.service.
[root@centos7 ~]# systemctl start dhcpd
Job for dhcpd.service failed because the control process exited with error code. See "systemctl status
dhcpd.service" and "journalctl -xe" for details.
[root@centos7 ~]# systemctl status dhcpd
• dhcpd.service - DHCPv4 Server Daemon
 Loaded: loaded (/usr/lib/systemd/system/dhcpd.service; enabled; vendor preset: disabled)
 Active: failed (Result: exit-code) since Sun 2017-05-21 11:49:55 EDT; 1min 14s ago
   Docs: man:dhcpd(8)
      man:dhcpd.conf(5)
 Process: 14527 ExecStart=/usr/sbin/dhcpd -f -cf /etc/dhcp/dhcpd.conf -user dhcpd -group dhcpd --no-
pid (code=exited, status=1/FAILURE)
Main PID: 14527 (code=exited, status=1/FAILURE)
May 21 11:49:55 centos7.server1.com dhcpd[14527]: Internet Systems Consortium DHCP Server 4.2.5
May 21 11:49:55 centos7.server1.com dhcpd[14527]: Copyright 2004-2013 Internet Systems
Consortium.
May 21 11:49:55 centos7.server1.com dhcpd[14527]: All rights reserved.
May 21 11:49:55 centos7.server1.com dhcpd[14527]: For info, please visit
https://www.isc.org/software/dhcp/
May 21 11:49:55 centos7.server1.com dhcpd[14527]: Not searching LDAP since ldap-server, ldap-port
and lda...file
May 21 11:49:55 centos7.server1.com dhcpd[14527]: Wrote 0 leases to leases file.
May 21 11:49:55 centos7.server1.com systemd[1]: dhcpd.service: main process exited, code=exited,
status=1...LURE
May 21 11:49:55 centos7.server1.com systemd[1]: Failed to start DHCPv4 Server Daemon.
May 21 11:49:55 centos7.server1.com systemd[1]: Unit dhcpd.service entered failed state.
May 21 11:49:55 centos7.server1.com systemd[1]: dhcpd.service failed.
Hint: Some lines were ellipsized, use -l to show in full.
[root@centos7 ~]#
[root@centos7 ~]# cat /etc/dhcp/dhcpd.conf
```

#

```
# DHCP Server Configuration file.
# see /usr/share/doc/dhcp*/dhcpd.conf.example
# see dhcpd.conf(5) man page
[root@centos7~]# cp /usr/share/doc/dhcp-4.2.5/dhcpd.conf.example /etc/dhcp/dhcpd.conf
cp: overwrite '/etc/dhcp/dhcpd.conf'? y
[root@centos7 ~]#
[root@centos7 ~]# vi /etc/dhcp/dhcpd.conf
[root@centos7 ~]#
[root@centos7 ~]# dhcpd -t
Internet Systems Consortium DHCP Server 4.2.5
Copyright 2004-2013 Internet Systems Consortium.
All rights reserved.
For info, please visit https://www.isc.org/software/dhcp/
Not searching LDAP since ldap-server, ldap-port and ldap-base-dn were not specified in the config file
[root@centos7 ~]#
[root@centos7 ~]# systemctl restart dhcpd
[root@centos7 ~]# systemctl status dhcpd
• dhcpd.service - DHCPv4 Server Daemon
 Loaded: loaded (/usr/lib/systemd/system/dhcpd.service; enabled; vendor preset: disabled)
 Active: active (running) since Sun 2017-05-21 13:06:13 EDT; 18s ago
   Docs: man:dhcpd(8)
      man:dhcpd.conf(5)
Main PID: 15560 (dhcpd)
 Status: "Dispatching packets..."
 CGroup: /system.slice/dhcpd.service
       15560 /usr/sbin/dhcpd -f -cf /etc/dhcp/dhcpd.conf -user dhcpd -group dhcpd --no-pid
[root@centos7 ~]#
[root@centos7 ~]# firewall-cmd --permanent --add-service=dhcp
success
[root@centos7 ~]#
[root@centos7 ~]#
[root@centos7 ~]# firewall-cmd --reload
success
[root@centos7 ~]#
[root@centos7 ~]#
[root@centos7 ~]# firewall-cmd --list-all
public (active)
 target: default
 icmp-block-inversion: no
 interfaces: enp0s3
 sources:
 services: dhcp dhcpv6-client dns ssh
 ports:
```

```
protocols:
 masquerade: no
 forward-ports:
 sourceports:
 icmp-blocks:
 rich rules:
[root@centos7 ~]#
[root@centos7 ~]# grep -A 2 "subnet 192.168.1.0" /etc/dhcp/dhcpd.conf
subnet 192.168.1.0 netmask 255.255.255.0 {
 range 192.168.1.151 192.168.1.160;
 option broadcast-address 192.168.1.255;
[root@centos7 ~]#
[root@centos7 ~]# sed -n '80,83p' /etc/dhcp/dhcpd.conf
#host centos6 {
# hardware ethernet 08:00:27:3C:6D:90;
# fixed-address 192.168.1.170;
#}
[root@centos7 ~]#
[root@centos7 ~]#
DHCP Server - Dynamic IP in the range (192.168.1.151 <---> 192.168.1.160) address:
[root@localhost ~]# dhclient -r
[root@localhost ~]#
[root@localhost ~]# dhclient
[root@localhost ~]# ifconfig
       Link encap:Ethernet HWaddr 08:00:27:3C:6D:90
eth0
     inet addr:192.168.1.152 Bcast:192.168.1.255 Mask:255.255.255.0
     inet6 addr: fe80::a00:27ff:fe3c:6d90/64 Scope:Link
      UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
     RX packets:260 errors:0 dropped:0 overruns:0 frame:0
      TX packets:108 errors:0 dropped:0 overruns:0 carrier:0
     collisions:0 txqueuelen:1000
     RX bytes:45473 (44.4 KiB) TX bytes:11946 (11.6 KiB)
lo
      Link encap:Local Loopback
      inet addr:127.0.0.1 Mask:255.0.0.0
     inet6 addr: ::1/128 Scope:Host
      UP LOOPBACK RUNNING MTU:16436 Metric:1
      RX packets:20 errors:0 dropped:0 overruns:0 frame:0
     TX packets:20 errors:0 dropped:0 overruns:0 carrier:0
     collisions:0 txqueuelen:0
     RX bytes:1320 (1.2 KiB) TX bytes:1320 (1.2 KiB)
[root@localhost ~]#
```

DHCP Server - Fixed Static IP based on MAC address:

[root@localhost ~]#

[root@localhost ~]# **dhclient**

[root@localhost ~]# ifconfig

eth0 Link encap:Ethernet HWaddr 08:00:27:3C:6D:90

inet addr:192.168.1.170 Bcast:192.168.1.255 Mask:255.255.255.0

inet6 addr: fe80::a00:27ff:fe3c:6d90/64 Scope:Link

UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:153 errors:0 dropped:0 overruns:0 frame:0 TX packets:67 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:32618 (31.8 KiB) TX bytes:6776 (6.6 KiB)

lo Link encap:Local Loopback

inet addr:127.0.0.1 Mask:255.0.0.0

inet6 addr: ::1/128 Scope:Host

UP LOOPBACK RUNNING MTU:16436 Metric:1

RX packets:20 errors:0 dropped:0 overruns:0 frame:0

TX packets:20 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:1320 (1.2 KiB) TX bytes:1320 (1.2 KiB)

[root@localhost ~]#

6 – Configure syslog service

[root@centos7 ~]# rpm -qa | grep rsyslog

rsyslog-7.4.7-16.el7.x86 64

[root@centos7 ~]#

[root@centos7 ~]# systemctl enable rsyslog.service

[root@centos7 ~]# systemctl start rsyslog.service

[root@centos7 ~]# systemctl status rsyslog.service

• rsyslog.service - System Logging Service

Loaded: loaded (/usr/lib/systemd/system/rsyslog.service; enabled; vendor preset: enabled)

Active: active (running) since Sun 2017-05-21 17:59:52 EDT; 1min 12s ago

Main PID: 1088 (rsyslogd)

CGroup: /system.slice/rsyslog.service

1088 /usr/sbin/rsyslogd -n

May 21 17:59:51 centos7.server1.com systemd[1]: Starting System Logging Service...

May 21 17:59:52 centos7.server1.com systemd[1]: Started System Logging Service.

[root@centos7 ~]# vi /etc/rsyslog.conf

```
[root@centos7 ~]# sed -n '14,20p' /etc/rsyslog.conf
# Provides UDP syslog reception
#$ModLoad imudp
#$UDPServerRun 514
# Provides TCP syslog reception
#$ModLoad imtcp
#$InputTCPServerRun 514
[root@centos7 ~]#
[root@centos7 ~]#
[root@centos7 ~]# firewall-cmd --permanent --zone=public --add-port=514/tcp
success
[root@centos7 ~]# firewall-cmd --permanent --zone=public --add-port=514/udp
success
[root@centos7 ~]# firewall-cmd --reload
success
[root@centos7 ~]# firewall-cmd --list-all
public (active)
 target: default
 icmp-block-inversion: no
 interfaces: enp0s3
 sources:
 services: dhcp dhcpv6-client dns ssh
 ports: 514/tcp 514/udp
 protocols:
 masquerade: no
 forward-ports:
 sourceports:
 icmp-blocks:
 rich rules:
[root@centos7 ~]#
[root@centos7 ~]#
[root@centos7 ~]# journalctl -n 5
-- Logs begin at Sun 2017-05-21 08:36:03 EDT, end at Sun 2017-05-21 17:01:01 EDT. --
May 21 17:01:01 centos7.server1.com CROND[19535]: (root) CMD (run-parts /etc/cron.hourly)
May 21 17:01:01 centos7.server1.com run-parts(/etc/cron.hourly)[19539]: starting 0anacron
May 21 17:01:01 centos7.server1.com run-parts(/etc/cron.hourly)[19550]: finished 0anacron
May 21 17:01:01 centos7.server1.com systemd[1]: Removed slice user-0.slice.
May 21 17:01:01 centos7.server1.com systemd[1]: Stopping user-0.slice.
[root@centos7 ~]#
```