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DHCP

— 2017/01/13 13:06

RHEL / CentOS 7

```
[root@pxe ~]# yum install dhcp dhcp-common
```

RHEL / CentOS 8

```
[root@pxe ~]# yum install dhcp-common dhcp-server dhcp-client
```

Debian / Ubuntu

```
[root@pxe ~]# yum install dhcp dhcp-common
```

dhcpd.conf

PXE

/etc/dhcp/dhcpd.conf

```
# dhcpcd.conf
#
allow booting;
allow bootp;
option option-128 code 128 = string;
option option-129 code 129 = text;

option domain-name-servers 8.8.8.8, 168.126.63.1;
default-lease-time 600;
max-lease-time 7200;
authoritative;
log-facility local7;

subnet 192.168.222.0 netmask 255.255.255.0 {
```

```
range dynamic-bootp 192.168.222.101 192.168.222.200;
next-server 192.168.222.254;
filename "pxelinux.0";
}

ddns-update-style none ;
// DDNS      DHCP
// ad-hoc : DHCP Failover          DDNS
// DHCP 2.x      ad-hoc          DDNS
//
// interim : DHCP Failover          DDNS
// DHCP 3.x      interim          DDNS
//
// none : DHCP DNS          Only DHCP

default-lease-time 10800 ; //DHCP IP
max-lease-time 32400 ; //DHCP IP
authoritative ;
// IP          DHCP Server          IP
// DHCP Server  DHCPNAK Message

log-facility local7 ;
//syslogd      log      (Man Page      )

shared-network "NDOCS-NET" {
    // shared-network      DHCP          Subnet          IP
    //
    //           Interface[NIC]          Subnet
    //
    //           ::      shared-network "NDOCS-NET" {      DHCP
    //
    //           Subnet          "NDOCS-NET"
    //           shared-network [ " " ]      }
    //           DHCP          {      }
    dhcpd_interface = "hme0" ;
    // DHCP      NIC          ::      DHCP          NIC가 hme0
    // dhcpd_interface = "hme0" ;      DHCP
NIC
    //
    //           dhcpd_interface = [ NIC ]
    // DHCP      NIC가
    subnet 58.72.95.128 netmask 255.255.255.128 {
        range 58.72.95.210 58.72.95.220 ;
        option domain-name "ndocs.com" ;
        option domain-name-servers 58.92.95.222 ;
        option routers 58.72.95.129 ;
        option broadcast-address 58.72.95.255 ; }
    subnet 61.40.66.64 netmask 255.255.255.192 {
        range dynamic-bootp 61.40.66.77 61.40.66.87 ;
        option domain-name-servers ns.ndocs.com ;
        option routers 61.40.66.100 ; }
```

```
option broadcast-address 61.40.66.127 ; }
// DHCP      61.40.65.64 / 255.255.255.192 Subnet
// 61.40.65.77 ~ 87 IP          BOOTP
// DHCP      BOOTP              DHCP                  inetd     bootp
//
subnet 192.168.102.0 netmask 255.255.255.0 {
    range dynamic-bootp 192.168.102.2 192.168.102.100 ;
    option domain-name-servers 203.248.252.2 ;
    option routers 192.168.102.254 ;
option broadcast-address 192.168.102.255 ;
// DHCP      192.168.102.0 / 255.255.255.0 Subnet  192.168.102.2~ 100
// IP        BOOTP
subnet 203.248.252.0 netmask 255.255.255.128 {
    range 203.248.252.10 203.248.252.120 ;
    option domain-name-servers 203.248.252.70 ;
    option routers 203.248.252.100 ;
    option broadcast-address 203.248.252.127 ;
    default-lease-time 600 ;
max-lease-time 7200 ;
// DHCP      203.248.252.0 / 255.255.255.128 Subnet
// 203.248.252.10 ~ 120 IP
class "foo" {
match if substring (option vendor-class-identifier, 0, 4) = "SUNW";
}
subnet 10.17.224.0 netmask 255.255.255.0 {
option routers gw.ndocs.com ;
}
subnet 10.0.29.0 netmask 255.255.255.0 {
option routers gw1.ndocs.com ;
}
pool {
    allow members of "foo" ;
range 10.17.224.10 10.17.224.250 ;
}
pool {
    deny members of "foo";
range 10.0.29.10 10.0.29.230 ;
// DHCP      "SUNW"           Hardware   DHCP
//           IP               10.12.224.10 ~ 250 IP           "foo"
Class
//      "SUNW"           DHCP                   IP
// 10.0.25.10 ~ 230 IP
// class      DHCP      IP           DHCP                   Class
//
//      class "foo" { match if substring (option vendor-class-
identifier, 0, 4) = "SUNW"; }
//      DHCP      "SUNW"           Hardware   DHCP
"foo"
// Class
// class "[Class]" {match if substring (option vendor-class-
identifier,[      ])=[      ];"}
//
// pool      class          :::
// pool { allow members of "foo" ; range 10.17.224.10 10.17.224.250
```

```
; }           Class
//      foo class          DHCP          IP
// 10.17.224.10 ~ 250 IP
// pool { allow members of "[Class]" ; range [IP] ; }

// pool { deny members of "foo" ; range 10.0.29.10 10.0.29.230 ; }
      Class
//      foo class          DHCP          IP
10.0.29.10 ~
// 230 IP          pool { deny members of
"[Class]" ; range [IP]
//      ] ; }
// DHCP Server    Class          DHCP Client        DHCP Server
DHCP          // ISC-DHCP          .          DHCP Client  DHCP Agent  ISC-DHCP
// Agent가        DHCP Agent        DHCP Server        Class가

group "one" {
    subnet 192.168.1.0 netmask 255.255.255.0 {
        range 192.168.1.110 192.168.1.250 ;
        option routers 192.168.1.254 ;
        option subnet-mask 255.255.255.0 ;
        option domain-name "blanco.net" ;
        option domain-name-servers 192.168.1.1 ;
        option broadcast-address 192.168.1.255 ; }
}
// group       DHCP      IP          DHCP
::
//      group "one" { subnet , netmask, range, option routers, option
subnet-mask, .. }
//      DHCP      IP          DHCP          192.168.1.110 ~ 250 IP

//      DHCP          "one"
// group "[     ]" { subnet , netmask, range, option routers, .. }

host windowsxp { <-
    hardware ethernet 00:07:e9:06:85:07 ;
    fixed-address 192.168.102.50 ;
    option host-name "windowsxp.ndocs.com" ; }
host linuxboot {
    hardware ethernet 0:0:c0:5d:bd:95 ;
    server-name "linux.ndocs.com" ;
    filename "/tmp/vmunix.boot" ;
}
}
// BOOTP          /tmp          vmlinu.x.boot Kernel
// Booting
// DHCP  BOOTP          DHCP
// Booing         Disk          Booting 가      Kernel  BOOTP

//      tftp Daemon
```

{ } //

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Last update: **2021/05/01 05:40**

