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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";
}
```

dhcpd.conf

```
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
    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      DHCP      IP  
//      foo class  
// 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      DHCP      IP  
//      foo class  
10.0.29.10 ~  
// 230 IP      pool { deny members of  
"[Class]" ; range [IP]  
//      ] ; }  
// DHCP Server  Class      DHCP Client      DHCP Server  
  
// ISC-DHCP      .      DHCP Client  DHCP Agent  ISC-DHCP  
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/vmlinix.boot" ;  
}  
}  
// BOOTP      /tmp      vmlinix.boot Kernel  
// Booting  
// DHCP  BOOTP      DHCP  
// Booting      Disk      Booting 가      Kernel  BOOTP
```

```
//      tftp Daemon
} //
```

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Last update: 2021/05/02 05:55