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DHCP

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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

```
# dhcpd.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      ::  
    // dhcpd_interface = "hme0" ;      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
//     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                vmunix.boot Kernel
// Booting
// DHCP BOOTP                DHCP
// Booining                Disk                Booting 가                Kernel    BOOTP
```

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

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