**Test Cases  
1.Verify the DHCP server is enabled and active**

Setup : Setup DHCP server and DHCP client using following instructions

(DHCP server configuration file ) (DHCP Client configuration file)

Test steps:

1.Run service dhcpd start

2.Run service dhcpd status

Expected result:

|  |
| --- |
| DHCP server enable and active  dhcpd.service - DHCPv4 Server Daemon  Loaded: loaded (/usr/lib/systemd/system/dhcpd.service; enabled; vendor preset: disabled)  Active: active (running) since Mon 2020-05-25 05:28:09 EEST; 3h 27min ago |

**2.Verify DHCPDECLINE message from the client when desired address is used**

**Description:**

You need two clients. One static and one through DHCP server. Try to first assign ip address to dhcp client, reboot the client or just remove it from network. Meanwhile give the same static ip to another client

Precondition:

All of addresses from poot is used by clients

**Setup :**

Setup DHCP server and DHCP client using following instructions

(DHCP server configuration file ) (DHCP Client configuration file)

**Test** **Steps Data**

1. Log in as norm Pytty`s session of Centos 7(norm) login\*\*\*\*\*\* passworld\*\*\*\*\*\*\*

2.Change BOOTPROTO configuration on host interface (norm)

$sudo sed -i -r "/BOOT/s/dhcp/static/" /etc/sysconfig/network-scripts/ifcfg-enp0s3

$sudo cat /etc/sysconfig/network-scripts/ifcfg-enp0s3 | grep BOOTPROTO

[BOOTPROTO=static]

3. Set IP address configuration on client interface (norm)

$sudo sed -i " aIPADDR=172.16.1.6" /etc/sysconfig/network-scripts/ifcfg-enp0s3

$sudo cat /etc/sysconfig/network-scripts/ifcfg-enp0s3 | grep IPADD

IPADDR=172.16.1.6

4.Set NETMASK configuration on client interface (norm)

$sudo sed -i " aNETMASK=255.255.255.0" /etc/sysconfig/network-scripts/ifcfg-enp0s3

$sudo cat /etc/sysconfig/network-scripts/ifcfg-enp0s3 | grep NETMASK

NETMASK=255.255.255.0

3. Reboot network service on DHCP client(norm) $sudo Service network restart

1. Log in as client1 on Pytty`s session of Centos 7(client1) login\*\*\*\*\*\* passworld\*\*\*\*\*\*\*

4. On host (client1) with ip-address 172.16.1.6

5.Send DHCP request message $sudo dhclient -d enp0s3

**Expected** **result**

When the server assigns the ip address the client will send DHCPDECLINE message to the Server.

|  |
| --- |
| DHCPREQUEST on enp0s3 to 255.255.255.255 port 67 (xid=0x7819599a)  DHCPOFFER from 172.16.1.1  DHCPACK from 172.16.1.1 (xid=0x7819599a)  DHCPDECLINE on enp0s3 to 255.255.255.255 port 67 (xid=0x2f73f45) |

Bug report

**Title**  
Same IP address accepts two clients.

**Status :** New

**Severity:**S3  
**Type**: Functional

**Reproducibility:** Always

**Priority:** P1 (High)

**Description:**  
**Steps to reproduce:**

1.Open configuration file on server

$sudo vi /etc/dhcp/dhcpd.conf

2. Make two same IP address to different hosts  
 host client1.unix.k.local { hardware ethernet 08:00:27:c4:50:93; fixed-address 172.16.1.2; }

host exer.unix.k.local { hardware ethernet 08:00:27:d1:2a:73; fixed-address 172.16.1.2; }

3.Restart dhcpd service on server

$sudo service dhcpd restart

4.From exer client send DHCP Discover message

$sudo dhclient -d enp0s8

5.From client1 send DHCP Release message

$sudo dhclient -r enp0s8

6.From client1 send DHCP Discover message

$sudo dhclient -d enp0s8

6. Pay attention to ip address on exer

$sudo ifconfig enp0s3

7.Restart network service

$sudo service network restart

8.Pay attention to ip address on client1

$sudo ifconfig enp0s3

**Expected Result:**  
Host client1 send DHCP Decline message to server, IP address not accepted.

**Actual Results:**  
Host client1 send DHCP Decline message to server, IP address accepted.

**Configuration**  
Server’s configuration describes in following file (file).

**Operating system** : Centos 7

**Attachments:**

