NAS 226
Using Your NAS as a DHCP Server

Enable your NAS as a DHCP server
to automatically assign IP address to all network devices

ASUSTOR COLLEGE

COURSE OBJECTIVES

Upon completion of this course you should be able to:

1. Use your NAS as a DHCP server to automatically assign IP addresses to all network devices and perform management.

PREQUISITES

Course Prerequisites:
None

Students are expected to have a working knowledge of:
N/A

OUTLINE

1. **DHCP Server Introduction**

2. **Configuring DHCP Server**

3. **Managing DHCP Server**

1. DHCP Server Introduction

Every network device needs a unique IP address to communicate with other network devices and access the Internet correctly. When deploying a large scale network environment, manually configuring network parameters for each device is a great hassle and inefficient for IT managers. Setting up a DHCP server can automate the IP address assignment process. All network devices can then receive complete and correct network parameters upon starting up.

Features:
- DHCP server can be enabled on each standalone network interface on the NAS
- Provides complete network parameter settings (lease time, DNS server, domain name, subnet mask, gateway IP)
- Supports multiple subnets list
- Supports DHCP reservation

Note: If a DHCP server already exists on the same local network, please DO NOT enable DHCP server on the NAS. Otherwise, this could cause IP conflicts or network inaccessibility issues.

2. Configuring DHCP Server

STEP 1

Login to **[ADM]** via a Web browser, and then select **[Settings]→ [Network] → [LAN]**. Choose the network interface from the drop-down list in **[Interface]** field, select the **[Set up IP address manually]** radio button and then fill out the required fields. Click **[Apply]** once you are done.
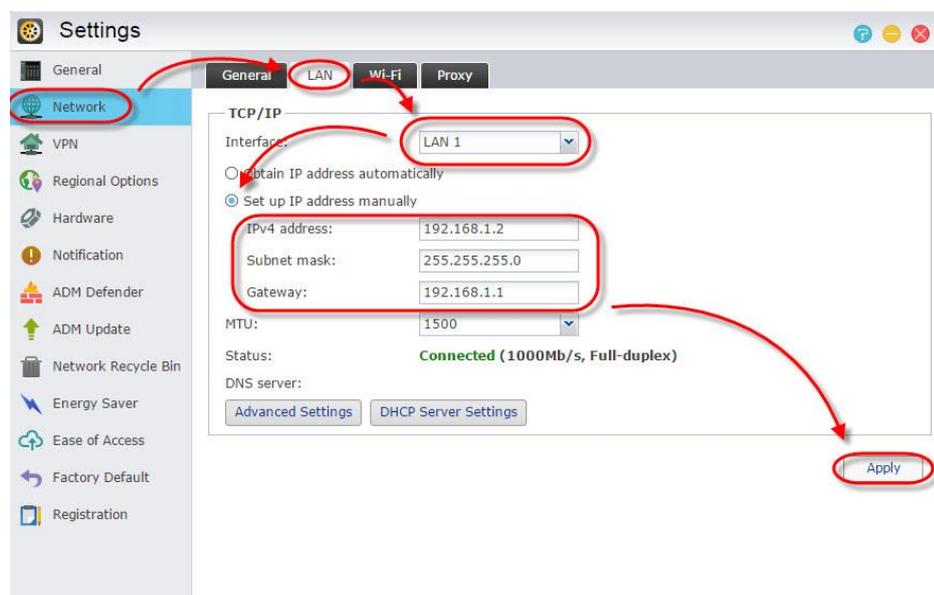
Note: You can configure the DHCP server settings only if the IP address was configured manually.

STEP 2

Click the **[DHCP Server Settings]** button, check the **[Enable DHCP Server]** option and fill out the following fields:

Lease time (hr): The lease time refers to the time that an IP address is leased to the clients. During that time, the IP will be reserved for the assigned client. When the lease time expires, the IP can then be assigned to another client. This field is set in hours and the maximum value is 720.
Primary/Secondary DNS: You can specify the DNS address for DHCP clients here.
Domain name: You can specify the domain name for the DHCP server here.

STEP 3

Click **[Subnet List]** → **[Add]** to add a new IP segment.
Enable: Enable or disable the specified subnet.
IP range: Specify the IP range to assign to DHCP clients.
Subnet mask: Enter the subnet mask for DHCP clients.
Gateway: Enter the default gateway IP for this subnet.

Note: You must add at least one subnet and enable it in order to successfully enable the DHCP server.

3. Managing DHCP Server

[DHCP Client List]: Here you can view the information for all current DHCP clients (including MAC address, IP address, hostname and expiration time).
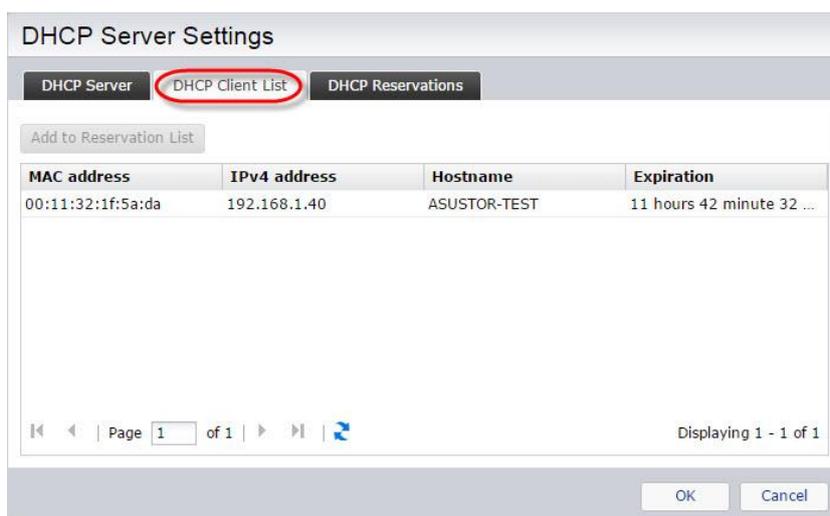
[DHCP Reservations]: To ensure that a specific client always uses the same IP address upon renewal, follow the steps below to add the client to the DHCP reservation list.
- Click **[Add].**
- Enter the client's MAC address, the reserved IP address, and the hostname of the client.
- Click **[OK]** to save the settings.