



# Pocket Guide

## Configure as DHCP Server

Product: Sophos XG Firewall

## Contents

<b>Overview .....</b>	<b>3</b>
<b>Prerequisites .....</b>	<b>3</b>
<b>Configuration .....</b>	<b>4</b>
Step A: Configure DHCP Server to Lease Dynamic IP address .....	4
Step 1: General Settings .....	4
Step 2: Configure the Services Details .....	5
Step B: Configure DHCP Server to Lease Static IP address.....	6
General Settings .....	6
<b>Result .....</b>	<b>8</b>
<b>Copyright Notice.....</b>	<b>9</b>

## Overview

This guide describes how to configure Sophos XG Firewall as a Dynamic Host Configuration Protocol (DHCP) server. DHCP servers can be configured to assign IP addresses dynamically or to assign static IP addresses to hosts that connect to the network. Dynamic addresses can be reused while static addresses make it easy to locate the host.

## Prerequisites

- You must have read-write permissions on the SF-OS Admin Console for the relevant features.

## Configuration

Log in to the SF-OS Admin Console.

### Step A: Configure DHCP Server to Lease Dynamic IP address

#### Step 1: General Settings

- Go to **Configure > Network > DHCP**. Under **Server**, click **Add**.
- Select the **Interface** from the list.
- Enter the **Dynamic IP Lease** details to specify the range from which IP addresses are to be assigned to clients.  
**Note:** You can specify multiple IP ranges for an interface or for the DHCP server.
- Select the **Subnet Mask** and specify the **Domain Name**.
- Select the **Conflict Detection** checkbox to check if an IP address is available for leasing.

The screenshot shows the 'General Settings' for a DHCP server. The 'Dynamic IP Lease' section is highlighted with a red box, showing a 'Start IP' of 192.168.1.1 and an 'End IP' of 192.168.1.25. Below this, the 'Conflict Detection' checkbox is checked and labeled 'Enable', also highlighted with a red box. Other settings include Name: DHCPServer, Interface: Port3 - 192.168.1.40, Subnet Mask: /24 (255.255.255.0), Domain Name: sophos.com, Gateway: Use Interface IP as Gateway (checked), 192.168.1.40, Default Lease Time: 1440, and Max Lease Time: 2880.

Under **DNS Server**, enter the **Primary** and **Secondary DNS** IP addresses.

The screenshot shows the 'DNS Server' configuration. The 'Use Device's DNS Settings' checkbox is unchecked. The 'Primary DNS' field contains the IP address 4.4.4.4, and the 'Secondary DNS' field contains the IP address 8.8.8.8.

Click **Save**.

The policy will be listed in the rule table.

Server						
<input type="checkbox"/>	Name	Interface	Lease Detail	Static	IP Family	Manage
<input type="checkbox"/>	DHCP Server	Port3 - 192.168.1.40	192.168.1.1 - 192.168.1.25	-	IPv4	

### Step 2: Configure the Services Details

- Go to **Configure > System Services > Services**.
- Click **Start** against DHCP server, if Status displays Stopped.

Services	Status	Manage
Anti-Spam Anti-Spam Center Connectivity	Running Connected	<b>Stop</b>
Anti-virus	Running	<b>Stop</b>
Authentication	Running	<b>Restart</b>
DNS Server	Running	<b>Stop</b>
IPS	Running	<b>Stop</b>
Web Proxy	Running	<b>Restart</b>
WAF	No Web Server configured	<b>Start</b>
DHCP Server	Stopped	<b>Start</b>
DHCPv6 Server	No DHCPv6 Server configured	<b>Start</b>
Router Advertisement Service	No Router Advertisement Server configured	<b>Start</b>
Hotspot	Running	<b>Stop</b>

This configuration enables Sophos XG Firewall to act as the DHCP server and lease an IP address from the address pool 192.168.1.1 – 192.168.1.25 (configured in step 1) to a host.

## Step B: Configure DHCP Server to Lease Static IP address

### General Settings

- Go to **Configure > Network > DHCP**. Under **Server**, click **Add**.
- Select the **Interface** from the list.
- Enter the **Static IP MAC Mapping** details.
- Select the **Subnet Mask** and specify the **Domain Name**.

The screenshot shows the 'General Settings' for a DHCP server on the IPv4 tab. The configuration includes:

- Name: DHCPServer\_Static
- Interface: Port3 - 192.168.1.40
- Dynamic IP Lease: Start IP and End IP fields with a '+ -' control.
- Static IP MAC Mapping table:

Hostname	MAC Address	IP Address	
John	00-15-C5-BF-67-C1	192.168.1.50	+ -
- Subnet Mask: /24 (255.255.255.0)
- Domain Name: sophos.com
- Gateway:  Use Interface IP as Gateway (192.168.1.40)
- Default Lease Time: 1440 (1-43200 Minutes (30 days))
- Max Lease Time: 2880 (1-43200 Minutes (30 days))
- Conflict Detection:  Enable

Under **DNS Server**, enter the **Primary and Secondary DNS IP** addresses.

The screenshot shows the 'DNS Server' configuration page with the following settings:

- Use Device's DNS Settings
- Primary DNS: 4.4.4.4
- Secondary DNS: 8.8.8.8



Click **Save**.

This configuration enables Sophos XG Firewall to act as a DHCP server and assigns 192.168.1.50 to John's MAC address.

In the policy table, click **View Details** to view the lease details.

Server

[Add](#) [Delete](#)

<input type="checkbox"/>	Name	Interface	Lease Detail	IP Family	Manage
			Dynamic	Static	
<input type="checkbox"/>	<a href="#">DHCP Server Static</a>	Port3 - 192.168.1.40	-	IPv4	<a href="#">View Detail</a>  

## Result

You have configured Sophos XG Firewall as a DHCP server that assigns dynamic and static IP addresses.



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