

Configuring a DHCP Pool on AMG (510 / 570)

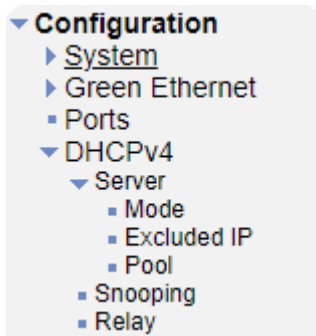
The DHCP server is a built-in server, used for networks in which clients are assigned IP address by the Virtual Controller. You can customize the DHCP pool subnet and address range to provide simultaneous access to a greater number of clients.

Here is a guide on configuring AMG switches with a DHCP pool:

AMG510 / AMG570

Web GUI:

Step 1: On the left-hand side of your Web GUI select Configuration > DHCPv4 > Server > Mode



Step 2: Specify where you would like to configure your DHCP Server configurations and then select Configuration > Server > Pool

DHCP Server Mode Configuration

Global Mode

Mode

VLAN Mode

VLAN	Enabled
1	<input type="checkbox"/>
10	<input type="checkbox"/>

Step 3: Select 'Add New Pool', specify the name of your DHCP pool and select 'Save' below

DHCP Server Pool Configuration

Pool Setting

Delete	Name	Type	IP	Subnet Mask	Lease Time
Delete		-	-	-	1 days 0 hours 0 minutes

Step 4: Select the name of your specified DHCP pool

DHCP Server Pool Configuration

Pool Setting

Delete	Name	Type	IP	Subnet Mask	Lease Time
<input type="checkbox"/>	Pool1	-	-	-	1 days 0 hours 0 minutes

Step 5: Specify the type of pool you require on the drop down and input the IP address, subnet mask and the lease time. Save your configuration at the bottom of the page by selecting the 'Save' button

DHCP Pool Configuration

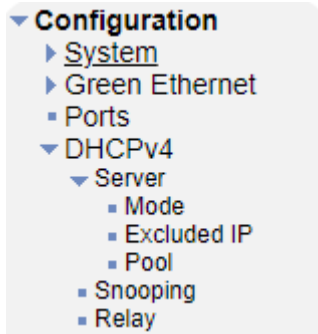
Pool

Name | Pool1 ▾

Setting

Pool Name	Pool1
Type	Network ▾
IP	192.168.1.3
Subnet Mask	255.255.255.0
Lease Time	365 days (0-365)
	0 hours (0-23)
	0 minutes (0-59)

Step 6: On the left-hand side of the web GUI, Navigate to Configuration > DHCPv4 > Excluded IP





Step 7: Select 'Add IP Range' and specify the IP address range you would like to exclude and select 'Save'

DHCP Server Excluded IP Configuration

Excluded IP Address

Delete	IP Range	
Delete	192.168.1.1	- 192.168.1.5

Add IP Range

Save Reset

Step 8: To verify your configurations, navigate on the left-hand side of your Web GUI to Monitor > DHCPv4 > Server > Statistics. You can see the number of pools you have generated and the entries excluded IP address ranges.

- Configuration
- Monitor
 - System
 - Green Ethernet
 - Ports
 - DHCPv4
 - Server
 - Statistics
 - Binding
 - Declined IP
 - Snooping Table
 - Relay Statistics
 - Detailed Statistics
 - DHCPv6
 - Security
 - Aggregation
 - Loop Protection
 - Spanning Tree
 - MVR
 - IPMC
 - LLDP
 - PoE
 - MAC Table
 - VLANs
 - MVRP
 - sFlow
 - DDMI
 - UDLD
 - Diagnostics
 - Maintenance

DHCP Server Statistics

Database Counters

Pool	Excluded IP Address	Declined IP Address
1	1	0

Binding Counters

Automatic Binding	Manual Binding	Expired Binding
0	0	0

DHCP Message Received Counters

DISCOVER	REQUEST	DECLINE	RELEASE	INFORM
0	0	0	0	0

DHCP Message Sent Counters

OFFER	ACK	NAK
0	0	0

Step 9: To save your configuration to your startup configuration, on the left-hand side of the Web GUI, select Maintenance > Configuration > Save startup-config and select 'Save Configuration'.

- Configuration
- Monitor
- Diagnostics
- Maintenance
 - Restart Device
 - Factory Defaults
 - Software
 - Configuration
 - Save startup-config
 - Download
 - Upload
 - Activate
 - Delete

Save Running Configuration to startup-config

Please note: The generation of the configuration file may be time consuming, depending on the amount of non-default configuration.

Save Configuration

Command Line interface (CLI)

Step 1: Log in to the switch via SSH or Console.

Step 2: Enter configuration mode by using the ***“configure terminal”*** command.

Step 3: Once you are in configuration mode, enter the command ***“ip dhcp pool [PoolName]”*** and press enter to enter the DHCP pool configuration mode.

Step 4: Specify if the DHCP pool is for a ***“network”*** or a ***“host”***, assign the IP address and subnet mask of this using the command ***“network [IP-Address] [Subnet-Mask]”***.

Step 5: To enter the lease of IP addresses within this network, enter the command ***“lease [Number-of-days] [hours] [minutes]”*** and press enter and exit the DHCP Pool configuration by entering the command ***“exit”*** to revert to the configuration mode.

Step 6: To exclude dhcp to and from an IPv4 address range, enter the command ***“ip dhcp excluded-address [IPv4-Address-low] [IPv4-Address-high]”***.

Step 7: Exit configuration mode by typing the command ***“exit”*** and save your configuration by entering the command ***“copy running-config startup-config”***.

Step 8: To verify your configuration, enter the command ***“show running-config”***.

Here is an example of a DHCP Pool being configured on a command line interface:

```
AMG-Lab-Switch10# configure terminal
AMG-Lab-Switch10(config)# ip dhcp pool Pool1
AMG-Lab-Switch10(config-dhcp-pool)# network 192.168.1.0 255.255.255.0
AMG-Lab-Switch10(config-dhcp-pool)# lease 365 0 0
AMG-Lab-Switch10(config-dhcp-pool)# exit
AMG-Lab-Switch10(config)# ip dhcp excluded-address 192.168.1.1 192.168.1.5
AMG-Lab-Switch10(config)# exit
AMG-Lab-Switch10# copy running-config startup-config
Building configuration...
% Saving 3273 bytes to flash:startup-config
AMG-Lab-Switch10#
```