

Extreme Network

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Extreme Switch - How to configure DHCP Server in EXOS

<https://www.analysisman.com/2020/09/extreme-exos-dhcp-server.html>

Step 1. Create and configure a VLAN with IP address and Ports

```
create vlan vlan_name
```

```
configure vlan vlan_name ipaddress address/mask
```

```
exos-switch# create vlan DHCP_Server
```

```
exos-switch# configure vlan DHCP_Server ipaddress 192.168.100.1/24
```

```
IP interface for VLAN DHCP_Server has been created.
```

```
exos-switch# configure vlan DHCP_Server add ports 1-10
```

```
Port 1 2 3 4 5 6 7 8 9 10 untagged has been auto-moved from VLAN "Default" to "DHCP_Server".
```

Step 2. Enable DHCP client ports with the VLAN

```
enable dhcp ports port_list vlan vlan_name
```

```
exos-switch# enable dhcp ports 1-10 vlan DHCP_Server
```

Step 3. Configure DHCP address range with the VLAN

```
configure vlan vlan_name dhcp-address-range start_addr - end_addr
```

```
exos-switch# configure vlan DHCP_Server dhcp-address-range 192.168.100.10 - 192.168.100.200
```

Step 4. Configure DHCP options with the VLAN

```
configure vlan vlan_name dhcp-options default-gateway gateway_addr  
configure vlan vlan_name dhcp-options dns-server dns_addr
```

```
exos-switch# configure vlan DHCP_Server dhcp-options default-gateway 192.168.100.1  
exos-switch# configure vlan DHCP_Server dhcp-options dns-server primary 1.1.1.1  
exos-switch# configure vlan DHCP_Server dhcp-options dns-server secondary 8.8.8.8
```

Step 5. Check the DHCP configuration

```
exos-switch# show dhcp-server
```

```
VLAN "DHCP_Server":
```

```
DHCP Address Range   : 192.168.100.10->192.168.100.200  
Netlogin Lease Timer : Not configured (Default = 10 seconds)  
DHCP Lease Timer    : Not configured (Default = 7200 seconds)  
Default Gateway     : 192.168.100.1  
Primary DNS Server   : 1.1.1.1  
Secondary DNS Server : 8.8.8.8  
Ports DHCP Enabled  : 1-10
```

Step 6. (Optional) Configure the DHCP lease timer

The DHCP lease timer can be changed as follows. This example shows a change from the default 2 hours to 8 hours.

Step 7. (Optional) Check the DHCP lease

```
exos-switch# show vlan "VLAN_NAME" dhcp-address-allocation
```

Enabling and Disabling DHCP

https://documentation.extremenetworks.com/exos_32.2/GUID-771750A3-0D4A-4358-A3D0-72B3CD7518AE.shtml

DHCP is enabled on a per port, per *VLAN* basis.

Enable or disable DHCP on a port in a VLAN using the commands:

```
enable dhcp ports port_list vlan vlan_name
```

```
disable dhcp ports port_list vlan vlan_name
```

Displaying VLAN information

<https://documentation.extremenetworks.com/slxos/sw/20xx/l2config/GUID-D12CCE42-5F55-4DCC-8C83-CBD009CEEF0B.shtml>

Do the following to display information about a specific VLAN.

1. Enter the show vlan to display information about VLAN 1.

Copy this code

```
device# show vlan 1
VLAN Name State Ports
(u)-Untagged, (t)-Tagged
(c)-Converged
=====
1 default ACTIVE Eth 0/1(t) Eth 0/4(t) Eth 0/5(t) Eth 0/8(t)
```

2. Enter the show vlan detail command to display detailed information.

Copy this code

```
device# show vlan det
VLAN: 1, Name: default
Admin state: ACTIVE, Config status: Static
Number of interfaces: 7
    Eth 0/4, tagged, Static
    Eth 0/3, tagged, Static
    Eth 0/2, tagged, Static
    Eth 0/8, tagged, Static
    Eth 0/6, tagged, Static
    Eth 0/9, untagged, Static
    Po 20, tagged, Static
VLAN: 10, Name: VLAN0010
Admin state: ACTIVE, Config status: Static
Number of interfaces: 3
    Eth 0/3, tagged, Static
    Eth 0/2, tagged, Static
    Eth 0/4, tagged, Static
    Po 20, tagged, Static
VLAN: 11, Name: VLAN0011
Admin state: ACTIVE, Config status: Static
Number of interfaces: 3
    Eth 0/3, tagged, Static
    Eth 0/2, tagged, Static
    Eth 0/4, tagged, Dynamic (MVRP)
VLAN: 12, Name: VLAN0012
Admin state: ACTIVE, Config status: Dynamic (MVRP)
Number of interfaces: 1
```

Eth 0/4, tagged, Dynamic (MVRP)

VLAN: 13, Name: VLAN0013

Admin state: ACTIVE, Config status: Dynamic (EP tracking)

Number of interfaces: 1

Eth 0/6, tagged, Dynamic (EP tracking)

VLAN: 14, Name: VLAN0014

Admin state: INACTIVE(member port down), Config status: Static

Number of interfaces: 1

Eth 0/8, tagged, Static