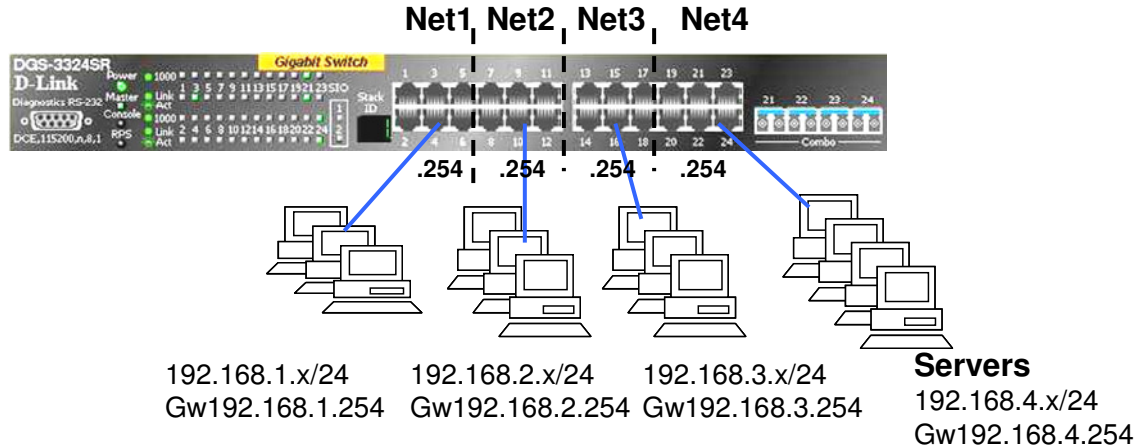


How do I setup Layer 3 routing on my DGS-3324SR/DGS-3324SRi/DXS-3350SR, and DXS-3326GSR?

Warning:

The example configuration below was created from a factory default configuration on the DGS-3324SR/DGS-3324SRi/DXS-3350SR/DXS-3326GSR switches. We recommend saving your current configuration if necessary.



Scenario:

This example shows a simple Layer 3 configuration on a standalone DGS-3324SR switch. The different IP networks can be routed without any Layer 3 routing protocols enabled on the switch. In this scenario, the DGS-3324SR will create 4 local routes in the Routing Table. The traffic going between the different subnets will be routed based on the information found in the Local Routing table in the switch. This configuration example is based on firmware version 4.10b15.

Switch Configuration:

Step 1 Connect to the switch using the console connection with your preferred Terminal emulation software.

Step 2 Once connected to the CLI, login at the username and password prompt. The default is username is <blank> and password is <blank>.

Step 3 At the prompt, enter the following command:

```
reset system
```

Enter 'y' when prompted to confirm the factory reset. The switch will now reboot with the factory default settings.

Step 4 Login again to the switch.

Step 5 Once at the CLI, type in the following commands to create the VLANs and IP interfaces associated with each VLAN.

```
config vlan default delete 1:1-1:24

create vlan v101 tag 101
config vlan v101 add untagged 1:1-1:6
create ipif net1 192.168.1.254/24 v101 state enabled

create vlan v102 tag 102
config vlan v102 add untagged 1:7-1:12
create ipif net2 192.168.2.254/24 v102 state enabled

create vlan v103 tag 103
config vlan v103 add untagged 1:13-1:18
create ipif net3 192.168.3.254/24 v103 state enabled

create vlan v104 tag 104
config vlan v104 add untagged 1:19-1:24
create ipif net4 192.168.4.254/24 v104 state enabled

save
```

Step 6 Configure the PCs in each subnet with the appropriate IP address and gateway. i.e.

Net1 PC – 192.168.1.10/255.255.255.0 gateway 192.168.1.254

Net2 PC – 192.168.2.10/255.255.255.0 gateway 192.168.2.254

Net3 PC – 192.168.3.10/255.255.255.0 gateway 192.168.3.254

Net4 PC – 192.168.4.10/255.255.255.0 gateway 192.168.4.254

Testing the Configuration:

1. Net1 PC can ping gateway (192.168.1.254), other DGS-3324SR interfaces (192.168.2.254, 192.168.3.254, etc) and other network's PC.
2. Net2 PC can ping gateway (192.168.2.254), other DGS-3324SR Interfaces (192.168.1.254, 192.168.3.254, etc) and other network's PC IP.
3. Same testing for Net3 PC, Net4 PC.

Verifying the Configuration:

Below is a list of commands that can be used to verify the configuration and are also useful for diagnostics:

1. `show vlan`
2. `show ipif`