diagnostics
Enables Metro Ring Protocol (MRP) diagnostics for a ring on the master node.

**EXAMPLE:**
HP9300(config-vlan-2-mrp-1)# diagnostics

**Syntax:** [no] diagnostics

**NOTE:** This command is valid only on the master node.

**Possible values:** N/A
**Default value:** Disabled

enable
Enables an MRP ring.

**EXAMPLE:**
HP9300(config)# vlan 2
HP9300(config-vlan-2)# metro-ring 1
HP9300(config-vlan-2-mrp-1)# name CustomerA
HP9300(config-vlan-2-mrp-1)# master
HP9300(config-vlan-2-mrp-1)# ring-interface ethernet 1/1 ethernet 1/2
HP9300(config-vlan-2-mrp-1)# enable

**Syntax:** [no] enable

**Possible values:** N/A
**Default value:** Disabled

end
Moves activity to the privileged EXEC level from any level of the CLI except the user EXEC level.

**EXAMPLE:**
To move to the privileged EXEC level, enter the following from any level of the CLI.

HP9300(config-vlan-2-mrp-1)# end
HP9300#

**Syntax:** end
**Possible values:** N/A
**Default value:** N/A

**exit**
Moves activity up one level from the current level. In this case, activity will be moved to the port-based VLAN level if configuring a protocol VLAN. If configuring a port-based VLAN, activity would be moved to the global level.

**EXAMPLE:**
```
HP9300(config-vlan-2-mrp-1)# exit
HP9300(config)#
```
**Syntax:** exit
**Possible values:** N/A
**Default value:** N/A

**hello-time**
Changes the Ring Health Packet (RHP) hello time.

**EXAMPLE:**
```
HP9300(config-vlan-2-mrp-1)# hello-time 200
```
This command changes the hello time to 200 ms.

**Syntax:** [no] hello-time <ms>
**Possible values:** 100 – 1000 (one second)
**Default value:** 100 ms

**master**
Designates this device to be the master node for the MRP ring.

**EXAMPLE:**
```
HP9300(config)# vlan 2
HP9300(config-vlan-2)# metro-ring 1
HP9300(config-vlan-2-mrp-1)# master
```
**Syntax:** [no] master

**NOTE:** Enter this command only on one node in the ring.

**Possible values:** N/A
**Default value:** non-master node

**name**
Adds a name to an MRP ring.

**EXAMPLE:**
```
HP9300(config-vlan-2-mrp-1)# name CustomerA
```
**Syntax:** [no] name <string>
The <string> parameter specifies a name for the ring.

**Possible values:** The name can be up to 20 characters long and can include blank spaces. If you use a name that has blank spaces, enclose the name in double quotation marks (for example: “Customer A”).
**Default value:** no name assigned

**no**
Disables other commands. To disable a command, place the word **no** before the command.
**preforwarding-time**
Changes the RHP preforwarding time.

**EXAMPLE:**
HP9300(config-vlan-2-mrp-1)# preforwarding-time 400

This command changes the preforwarding time to 400 ms.

**NOTE:** The preforwarding time must be at least twice the value of the hello time and must be a multiple of the hello time.

The `<ms>` specifies the number of milliseconds. The preforwarding time can be from 200 – 5000 ms, but must be at least twice the value of the hello time and must be a multiple of the hello time. The default preforwarding time is 300 ms.

**Possible values:** 200 – 5000 ms

**Default value:** 300 ms

**quit**
Returns you from any level of the CLI to the User EXEC mode.

**EXAMPLE:**
HP9300(config-vlan-2-mrp-1)# quit
HP9300>

**Syntax:** quit

**Possible values:** N/A

**Default value:** N/A

**ring-interface**
Specifies the device interfaces attached to the ring. Each device has two interfaces to the ring, a primary interface and a secondary interface.

On the master node, the primary interface is the one that originates RHPs. Ring control traffic and Layer 2 data traffic will flow in the outward direction from this interface by default.

On member nodes, the direction of traffic flow depends on the traffic direction selected by the master node. Therefore, on a member node, the order in which you enter the interfaces does not matter.

**NOTE:** To take advantage of every interface in a Metro network, you can configure another MRP ring and either configure a different Master node for the ring or reverse the configuration of the primary and secondary interfaces on the Master node. Configuring multiple rings enables you to use all the ports in the ring. The same port can forward traffic one ring while blocking traffic for another ring.

**EXAMPLE:**
HP9300(config-vlan-2-mrp-1)# ring-interface ethernet 1/1 ethernet 1/2

**Syntax:** [no] ring-interface ethernet

The `ethernet` parameter specifies the primary interface. On the master node, the primary interface is the one that originates RHPs. Ring control traffic and Layer 2 data traffic will flow in the outward direction from this interface by default. On member nodes, the direction of traffic flow depends on the traffic direction selected by the master node. Therefore, on a member node, the order in which you enter the interfaces does not matter.

The `ethernet` parameter specifies the secondary interface.

**Possible values:** See above

**Default value:** N/A
show
Displays a variety of configuration and statistical information about the device. See “Show Commands” on page 31-1.

write memory
Saves the running configuration into the startup-config file.

EXAMPLE:
HP9300(config-vlan-2-mrp-1)# write memory
Syntax: write memory
Possible values: N/A
Default value: N/A

write terminal
Displays the running configuration of the HP device on the terminal screen.

NOTE: This command is equivalent to the show running-config command.

EXAMPLE:
HP9300(config-vlan-2-mrp-1)# write terminal
Syntax: write terminal
Possible values: N/A
Default value: N/A