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show debugging

To display information about the types of debugging that are enabled for your router, use the **show debugging** command in privileged EXEC mode.

show debugging

- **Syntax Description** This command has no arguments or keywords.
- **Command Modes** Privileged EXEC (#)

Command History Modification Release 11.1 This command was introduced. 12.3(7)T The output of this command was enhanced to show TCP Explicit Congestion Notification (ECN) configuration. 12.2(33)SRA This command was integrated into Cisco IOS Release 12.2(33)SRA. 12.2(31)SB2 This command was integrated into Cisco IOS Release 12.2(31)SB2. 12.2SX This command is supported in the Cisco IOS Release 12.2SX train. Support in a specific 12.2SX release of this train depends on your feature set, platform, and platform hardware. 12.4(20)T The output of this command was enhanced to show the user-group debugging configuration. Cisco IOS XE 3.3SE This command was implemented in Cisco IOS XE Release 3.3SE.

Examples

The following is sample output from the **show debugging** command. In this example, the remote host is not configured or connected.

00:02:50: tcp0: R SYNSENT 10.1.25.234:11001 10.1.25.31:23 seq 1922220018 OPTS 4 ECE CWR SYN WIN 4128 00:02:54: 10.1.25.31:11001 <---> 10.1.25.234:23 congestion window changes 00:02:54: cwnd from 1460 to 1460, ssthresh from 2920 to 2920 00:02:54: tcp0: R SYNSENT 10.1.25.234:11001 10.1.25.31:23 seq 1922220018 OPTS 4 ECE CWR SYN WIN 4128 00:03:02: 10.1.25.31:11001 <---> 10.1.25.234:23 congestion window changes 00:03:02: cwnd from 1460 to 1460, ssthresh from 2920 to 2920 00:03:02: tcp0: R SYNSENT 10.1.25.234:11001 10.1.25.31:23 seg 1922220018 OPTS 4 ECE CWR SYN WIN 4128 00:03:18: 10.1.25.31:11001 <---> 10.1.25.234:23 SYN with ECN disabled 00:03:18: 10.1.25.31:11001 <---> 10.1.25.234:23 congestion window changes 00:03:18: cwnd from 1460 to 1460, ssthresh from 2920 to 2920 00:03:18: tcp0: 0 SYNSENT 10.1.25.234:11001 10.1.25.31:23 seq 1922220018 OPTS 4 SYN WIN 4128 00:03:20: 10.1.25.31:11001 <---> 10.1.25.234:23 congestion window changes 00:03:20: cwnd from 1460 to 1460, ssthresh from 2920 to 2920 00:03:20: tcp0: R SYNSENT 10.1.25.234:11001 10.1.25.31:23 seq 1922220018 OPTS 4 SYN WIN 4128 00:03:24: 10.1.25.31:11001 <---> 10.1.25.234:23 congestion window changes 00:03:24: cwnd from 1460 to 1460, ssthresh from 2920 to 2920 00:03:24: tcp0: R SYNSENT 10.1.25.234:11001 10.1.25.31:23 seq 1922220018 OPTS 4 SYN WIN 4128 00:03:32: 10.1.25.31:11001 <---> 10.1.25.234:23 congestion window changes 00:03:32: cwnd from 1460 to 1460, ssthresh from 2920 to 2920 00:03:32: tcp0: R SYNSENT 10.1.25.234:11001 10.1.25.31:23 seq 1922220018 OPTS 4 SYN WIN 4128 !Connection timed out; remote host not responding The following is sample output from the **show debugging** command when user-group debugging is configured:

```
Router# show debugging
!
usergroup:
Usergroup Deletions debugging is on
Usergroup Additions debugging is on
Usergroup Database debugging is on
Usergroup API debugging is on
!
```

The following is sample output from the **show debugging** command when SNAP debugging is configured:

```
Router# show debugging
Persistent variable debugging is currently All
SNAP Server Debugging ON
SNAP Client Debugging ON
Router#
The table below describes the significant fields in the output.
```

Table 1: show debugging Field Descriptions

Field	Description
OPTS 4	Bytes of TCP expressed as a number. In this case, the bytes are 4.
ECE	Echo congestion experience.
CWR	Congestion window reduced.
SYN	Synchronize connectionsRequest to synchronize sequence numbers, used when a TCP connection is being opened.

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Field	Description
WIN 4128	Advertised window size, in bytes. In this case, the bytes are 4128.
cwnd	Congestion window (cwnd)Indicates that the window size has changed.
ssthresh	Slow-start threshold (ssthresh)Variable used by TCP to determine whether or not to use slow-start or congestion avoidance.
usergroup	Statically defined usergroup to which source IP addresses are associated.