



Cisco Switch Troubleshooting Cheat Sheet

show ip interface brief – See Layer 1, Layer 2, and Layer 3 interface status of all interfaces on the switch.

show mac address-table – See all MAC addresses known to the switch. Filter the output with one of the following variations:

- **show mac address-table dynamic** - Display only learned MAC addresses.
- **show mac address-table vlan <vlan id>** - Show results for only the specified VLAN.
- **show mac address-table | include xxxx** – Search table by MAC address. Digits must be lower-case.

show spanning-tree - Verify that spanning-tree is working as expected – root bridge is correct, designated ports are correct, backup ports are blocking instead of forwarding, etc. Filter results by specifying a particular VLAN using the **show spanning-tree vlan <vlan id>** command.

show cdp neighbors – See all Cisco devices attached to the switch you're logged in to. For more information use **show cdp neighbors detail**.

show interface – Show detailed information about a single interface, including speed/duplex, interface error counters, etc. Filter by using **show interface <type> <identifier>**.

show running-config - Shows the active configuration of a Cisco switch. Filter using one of the options below:

- **show running-config | begin** - Start the output at a specific point within the configuration. For example, "show running-config | begin dhcp" will jump to the dhcp section of the running-config.
- **show running-config | include** - Show all configuration lines containing a specific phrase.
- **show running-config interface <type> <identifier>** - Show the configuration of a specific port.

show log – Show the switch's event log, including hardware, software, interfaces, and more.

Still stuck? Contact us any time! We'd be happy to help you.

