



The Lan Health Check total solution aims to deliver a comprehensive report with an executive summary giving a general evaluation of the health of the devices on the network. Some of the main testing points are described as following:



1. IP (Internet Protocol) Inventory Generation

The purpose of this section is to generate a detailed IP inventory for all discovered IP-reliant devices on the network. The information includes Host Name, IP address, Subnet mask, MAC address, etc.



2. Generate NetBIOS Inventory

NetBIOS is a program that allows applications on different computers to communicate within a LAN. This section aims to describe devices that are using NetBIOS services. For each node, it is described which NetBIOS service it uses and over which protocol NetBIOS is bound.



3. Switch Details

This section aims to look into all the discovered switches on the network, check the detailed information of each switch, see the average and peak utilization, traffic in and out, packets, octets, errors and speed by switch slot and port.



4. Discover VLANs

This section aims to give customer a complete picture of the switched network. VLANs configured on discovered switch interfaces will be identified; interface status, connected host details and trend interface data will be checked.



5. Check LAN Health

The purpose of section is to view utilization on the connected LAN segment for a quick look at the network activity. Also, monitoring of key devices such as routers, servers or switches will be conducted.



6. Analyze LAN Traffic

This section aims to view the network's traffic statistics, including protocol mix, top senders, top broadcasters, and error sources. Bandwidth hogs location will also be identified and isolated from the network if necessary. Performance trends will be analyzed and followed up with baseline data reports.



7. Detect Network Problems

This section aims to test and display real-time results of devices, networks and problems. On the LAN, duplicate IP addresses, overlapped subnet masks, duplex mismatches, and DHCP failures will be identified. Switch port statistics will be monitored while all the VLAN devices will be tracked and identified. Logged problems such as error, warning and informational messages will be investigated and subsequently evaluated. On the WAN, TX percentage, retries, rates and potential security vulnerabilities will be detected for further action.



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