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Switch Software Administration Manual Configuring Access Control Lists Access Control Lists (ACLs) ensure that only authorized users have access to specific resources while blocking off any unwarranted attempts to reach network resources. ACLs are used to provide traffic flow control, restrict contents of routing updates, decide which types of traffic are forwarded or blocked, and above all provide security for the network. GS108T and GS110TP Smart Switch Software Administration Manual To use the ACL Wizard: Determine the type of ACL to configure and create a MAC ACL, standard IP ACL, or extended IP ACL. To permit or deny traffic based on the Source MAC Address, create a MAC ACL. • ... GS108T and GS110TP Smart Switch Software Administration Manual MAC ACL A MAC ACL consists of a set of rules which are matched sequentially against a packet. When a packet meets the match criteria of a rule, the specified rule action (Permit/Deny) is taken and the additional rules are not checked for a match. GS108T and GS110TP Smart Switch Software Administration Manual Click Cancel to cancel the configuration on the screen and reset the data on the screen to the latest value of the switch. MAC Rules Use the MAC Rules page to define rules for MAC-based ACLs. The access list definition includes rules that specify whether traffic matching the criteria is forwarded normally or discarded. GS108T and GS110TP Smart Switch Software Administration Manual example, if the MAC address is aa:bb:cc:dd:ee:ff, and the mask is 00:00:ff:ff:ff:ff, all MAC addresses with aa:bb:xx:xx:xx:xx result in a match (where x is any hexadecimal number). A MAC mask of 00:00:00:00:00:00 matches a single MAC address. EtherType Key. Page 185 GS108T and GS110TP Smart Switch Software Administration Manual To configure MAC ACL interface bindings: Select an existing MAC ACL from the ACL ID menu. The packet filtering direction for ACL is Inbound, which means the MAC ACL rules are applied to traffic entering the port. Specify an optional sequence number to indicate the order of this access list relative to other access lists already assigned to this interface and direction. GS108T and GS110TP Smart Switch Software Administration Manual MAC Binding Table Use the MAC Binding Table page to view or delete the MAC ACL bindings. To display the MAC Binding Table, click Security ACL, then click the Basic Binding Table link. GS108T and GS110TP Smart Switch Software Administration Manual IP ACL IP ACLs allow network managers to define classification actions and rules for specific ingress ports. Packets can be filtered on ingress (inbound) ports only. If the filter rules match, then some actions can be taken, including dropping the packet or disabling the port. GS108T and GS110TP Smart Switch Software Administration Manual To delete an IP ACL, select the check box next to the IP ACL ID field, then click Delete. To change the name of an IP ACL, select the check box next to the IP ACL ID field, update the name, then click Apply. GS108T and GS110TP Smart Switch Software Administration Manual Assign Queue ID. Specifies the hardware egress queue identifier used to handle all • packets matching this ACL rule. Enter an identifying number from 0–3 in the appropriate field. Match Every. Requires a packet to match the criteria of this ACL. Select True or • ... Page 190 GS108T and GS110TP Smart Switch Software Administration Manual To configure rules for an IP ACL: To add an IP ACL rule, select the ACL ID to add the rule to, select the check box in the Extended ACL Rule table, and click Add. The page displays the extended ACL Rule Configuration fields, as the following figure shows. Page 191 GS108T and GS110TP Smart Switch Software Administration Manual Action. Selects the ACL forwarding action, which is one of the following: • Permit. Forwards packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Egress Queue. Specifies the hardware egress queue identifier used to handle all • ... Page 192 GS108T and GS110TP Smart Switch Software Administration Manual Destination L4 Port Number: If the destination L4 keyword is Other, enter a • user-defined Port ID by which packets are matched to the rule. Service Type. Choose one of the Service Type match conditions for the extended IP • ... GS108T and GS110TP Smart Switch Software Administration Manual IP Binding Configuration When an ACL is bound to an interface, all the rules that have been defined are applied to the selected interface. Use the IP Binding Configuration page to assign ACL lists to ACL Priorities and Interfaces. GS108T and GS110TP Smart Switch Software Administration Manual IP Binding Table Use the IP Binding Table page to view or delete the IP ACL bindings. To display the IP Binding Table, click Security ACL, then click the Advanced Binding Table link The following table describes the information displayed in the MAC Binding Table. Monitoring the System Use the features available from the Monitoring tab to view a variety of information about the switch and its ports and to configure how the switch monitors events. The Monitoring tab contains links to the following features: on page 196 • ... GS108T and GS110TP Smart Switch Software Administration Manual Ports The pages available from the Ports link contain a variety of information about the number and type of traffic transmitted from and received on the switch. From the Ports link, you can access the following pages: on page 196 • ... Page 197 GS108T and GS110TP Smart Switch Software Administration Manual The following table describes the Switch Statistics displayed on the screen. Field Description ifIndex This object indicates the ifIndex of the interface table entry associated with the processor of this switch. Octets Received The total number of octets of data received by the processor (excluding framing bits, but including FCS octets). GS108T and GS110TP Smart Switch Software Administration Manual Field Description Most VLAN Entries Ever The largest number of VLANs that have been active on this switch since the Used last reboot. Static VLAN Entries The number of presently active VLAN entries on this switch that have been created statically. GS108T and GS110TP Smart Switch Software Administration Manual The following table describes the per-port statistics displayed on the screen. Field Description Interface Lists the ports on the system. Total Packets Received The total number of packets received that were without errors. Without Errors Packets Received With Error The number of inbound packets that contained errors preventing them from being deliverable to a higher layer protocol. Page 200 GS108T and GS110TP Smart Switch Software Administration Manual The following table describes the detailed port information displayed on the screen. To view information about a different port, select the port number from the Interface menu. Field Description Interface Use the drop down menu to select the interface for which data is to be displayed or configured. Page 201 GS108T and GS110TP Smart Switch Software Administration Manual Field Description Port Type For most ports this field is blank. Otherwise the possible values are: Mirrored. Indicates that the port has been configured as a monitoring port • and is the source port in a port mirroring session. For additional information about port monitoring and probe ports, see Multiple Port on page 216. Page 202 GS108T and GS110TP Smart Switch Software Administration Manual Field Description Link Trap This object determines whether or not to send a trap when link status changes. The factory default is Enable. Enable: Specifies that the system sends a trap when the link status • ... Page 203 GS108T and GS110TP Smart Switch Software Administration Manual Field Description Packets Received The total number of packets (including bad packets) received that were 512-1023 Octets between 512 and 1023 octets in length inclusive (excluding framing bits but including FCS octets). Packets Received The total number of packets (including bad packets) received that were 1024-1518 Octets... Page 204 GS108T and GS110TP Smart Switch Software Administration Manual Field Description Local Traffic Frames The total number of frames dropped in the forwarding process because the destination address was located off of this port. 802.3x Pause Frames A count of MAC Control frames received on this interface with an opcode Received indicating the PAUSE operation. Page 205 GS108T and GS110TP Smart Switch Software Administration Manual Field Description Packets Transmitted The total number of packets (including bad packets) transmitted that were 1519-1522 Octets between 1519 and 1522 octets in length inclusive (excluding framing bits but including FCS octets). Total Packets Transmitted The number of frames that have been transmitted by this port to its segment. GS108T and GS110TP Smart Switch Software Administration Manual Field Description 802.3x Pause Frames A count of MAC Control frames transmitted on this interface with an opcode Transmitted indicating the PAUSE operation. This counter does not increment when the interface is operating in half-duplex mode. EAPOL Frames Received The number of valid EAPOL frames of any type that have been received by this authenticator. Page 207 GS108T and GS110TP Smart Switch Software Administration Manual The following table describes the EAP statistics displayed on the screen. Field Description Ports Specifies the interface which is polled for statistics. Frames Received Displays the number of valid EAPOL frames received on the port. Frames Transmitted Displays the number of EAPOL frames transmitted through the port. GS108T and GS110TP Smart Switch Software Administration Manual System Logs The switch may generate messages in response to events, faults, or errors occurring on the platform as well as changes in configuration or other occurrences. These messages are stored locally and can be forwarded to one or more centralized points of collection for monitoring purposes or long term archival storage. Page 209 GS108T and GS110TP Smart Switch Software Administration Manual To configure the Memory Log settings: Use the radio buttons in the Admin Status field to determine whether to log messages. Enable: Enables system logging. • Disable: Prevents the system from logging messages. • ... GS108T and GS110TP Smart Switch Software Administration Manual Use the buttons at the bottom of the page to perform the following actions: Click Clear to clear the messages out of the buffered log in the memory. • Click Refresh to update the page with the latest messages in the log. • ... Page 211 GS108T and GS110TP Smart Switch Software Administration Manual To configure the FLASH Log settings: Use the radio buttons in the Admin Status field to determine whether to log messages to persistent storage. Enable: Enables persistent logging. • Disable: Prevents the system from logging messages in persistent storage. • ... GS108T and GS110TP Smart Switch Software Administration Manual Server Log Configuration Use the Server Log Configuration page to allow the switch to send log messages to the remote logging hosts configured on the system. To access the Server Log Configuration page, click the Monitoring Logs tab, and then click the Server Log link. Page 213 GS108T and GS110TP Smart Switch Software Administration Manual To configure a remote log server To add a remote syslog host (log server), specify the settings in the following list and click Add. Host Address. Specify the IP address or hostname of the host configured for syslog. • ... GS108T and GS110TP Smart Switch Software Administration Manual Trap Logs Use the Trap Logs page to view information about the SNMP traps generated on the switch. To access the Trap Logs page, click the Monitoring Logs tab, and then click the Trap Logs link. GS108T and GS110TP Smart Switch Software Administration Manual Click Clear Counters to clear all the counters. This resets all statistics for the trap logs to the default values. Event Logs Use the Event Log page to display the event log, which is used to hold error messages for catastrophic events. GS108T and GS110TP Smart Switch Software Administration Manual Port Mirroring The page under the Mirroring link allows you to view and configure port mirroring on the system. Multiple Port Mirroring Port mirroring selects the network traffic for analysis by a network analyzer. This is done for specific ports of the switch. Page 217 GS108T and GS110TP Smart Switch Software Administration Manual From the Session Mode menu, select the mode for port mirroring on the selected port: Enable. Multiple Port Mirroring is active on the selected port. • Disable. Port mirroring is not active on the selected port, but the mirroring information • ... Page 218 GS108T and GS110TP Smart Switch Software Administration Manual 218 | Chapter 6: Monitoring the System... Maintaining the System Use the features available from the Maintenance tab to help you manage the switch. The Maintenance tab contains links to the following features: on page 220 • Reset on page 222 • Upload File From Switch on page 223 • ... GS108T and GS110TP Smart Switch Software Administration Manual Reset The Reset menu contains links to the following options: on page 220 • Device Reboot on page 221 • Factory Default Device Reboot Use the Device Reboot page to reboot the GS108T or GS110TP. To access the Device Reboot page, click Maintenance ... GS108T and GS110TP Smart Switch Software Administration Manual Factory Default Use the Factory Default page to reset the system configuration to the factory default values. If you reset the switch to the default configuration, the IP address is Note: reset to 192.168.0.239, and the DHCP client is enabled. If you loose network connectivity after you reset the switch to the factory defaults, see on page 11 . GS108T and GS110TP Smart Switch Software Administration Manual Upload File From Switch Use the File Upload page to upload configuration (ASCII), log (ASCII), and image (binary) files from the switch to the TFTP server. To display the File Upload page, click Maintenance Upload File Upload. To upload a file from the switch to the TFTP server: Use the File Type menu to specify the type of file you want to upload: Code: Uploads a stored code image. GS108T and GS110TP Smart Switch Software Administration Manual In the Transfer File Name field, specify a destination file name for the file to upload. You may enter up to 32 characters. The transfer fails if you do not specify a file name. For a code transfer, use an .stk file extension. Page 224 GS108T and GS110TP Smart Switch Software Administration Manual Before you download a file to the switch, the following conditions must be true: The file to download from the TFTP server is on the server in the appropriate directory. • The file is in the correct format. • ... GS108T and GS110TP Smart Switch Software Administration Manual active image. From the Server Address Type filed, specify the format for the address you type in the TFTP Server Address field IPv4. Indicates the TFTP server address is an IP address in dotted-decimal format. • ... Page 226 GS108T and GS110TP Smart Switch Software Administration Manual To download a file to the switch from by using HTTP: From the File Type menu, Specify what type of file you want to download to the switch: Code: The code is the system software image, which is saved in one of two flash • ... Page 227 GS108T and GS110TP Smart Switch Software Administration Manual Click the Apply button to initiate the file download. After a file transfer is started, please wait until the page refreshes. Note: When the page refreshes, the Select File option will be blanked out. This indicates that the file transfer is done. GS108T and GS110TP Smart Switch Software Administration Manual File Management The system maintains two versions of the GS108T or GS110TP software in permanent storage. One image is the active image, and the second image is the backup image. The active image is loaded during subsequent switch restarts. This feature reduces switch down time when upgrading or downgrading the GS108T or GS110TP software. GS108T and GS110TP Smart Switch Software Administration Manual To set the selected image as the active image, select the Active Image check box. After activating an image, you must perform a system reset of the Note: switch in order to run the new code. To remove the selected image from permanent storage on the switch, select the Delete Image check box. Page 230 GS108T and GS110TP Smart Switch Software Administration Manual The following table describes the information on the Dual Image Status page. Field Description Unit The unit ID of the switch is always 1. Image1 Ver Displays the version of the image1 code file. Image2 Ver Displays the version of the image2 code file. GS108T and GS110TP Smart Switch Software Administration Manual Troubleshooting The Troubleshooting menu contains links to the following options: on page 231 • Ping on page 232 • Traceroute Ping Use the Ping page to tell the switch to send a Ping request to a specified IP address. You can use this feature to check whether the switch can communicate with a particular network host. GS108T and GS110TP Smart Switch Software Administration Manual Click Apply to send the ping. The switch sends the number of pings specified in the Count field, and the results are displayed below the configurable data in the Ping area. If successful, you will see "Reply From IP/Host: icmp seq = 0, time = xx usec. Tx = x. • ... Page 233 GS108T and GS110TP Smart Switch Software Administration Manual MaxFail. Specify the maximum number of failures allowed in the session. The valid • range is 0–255. Interval. Specify the time between probes in seconds. The valid range is 1–60. • Port. Specify the UDP destination port in probe packets. The valid range is 1–65535. • ... Page 234 GS108T and GS110TP Smart Switch Software Administration Manual 234 | Chapter 7: Maintaining the System... Use the Support page to connect to the Online Support site at netgear.com. To access the Support page, click Help Support. To connect to the NETGEAR support site for the GS108T or GS110TP, click Apply. Chapter 8: Accessing Help... User Guide Use the User Guide page to access the GS108T and GS110TP Smart Switch Software Administration Manual (the guide you are now reading) that is available on the NETGEAR Website. To access the User Guide page, click Help User Guide. Page 237 GS108T and GS110TP Smart Switch Software Administration Manual Chapter 8: Accessing Help | 237... Hardware Specifications and Default Values GS108T and GS110TP Gigabit Smart Switches Specifications The GS108T and GS110TP Gigabit Smart Switches conform to the TCP/IP, UDP, HTTP, ICMP, TFTP, DHCP, IEEE 802.1D, IEEE 802.1p, and IEEE 802.1Q standards. GS108 Specifications Feature Value Interfaces Eight 10/100/1000 Ethernet ports PoE-Powered Device... GS108T and GS110TP Smart Switch Software Administration Manual GS108T and GS110TP Switch Performance Feature Value Switching capacity Non-Blocking Full WireSpeed on all packet sizes Forwarding method Store and Forward Packet forwarding rate 10M:14,880 pps/ 100M:148,810 pps/ 1G:1,488,000 pps MAC addresses Green Ethernet Power consumption savings by cable length (





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