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connected. The port on the edge switch that connects to the aggregation switch must be configured as a trusted context. In residential, metropolitan Ethernet-access settings, DHCP can centrally manage the IP address for a large number of subscribers. When the DHCP option -82 feature is enabled on the switch, a device subscribers are identified by the switch port in which it is connected to the network (in its MAC address). There are multiple alerts on the LAN subscribers can connect to the same port on the access switch and are uniquely identified. Note the DHCP Option-82 feature is supported only when DHCP snooping is globally enabled and on the VLANs that subscribers are subscribers using this feature are assigned. Figure 25-1 is an example of an Ethernet metropolitan network in which a centralized DHCP server assigns IP address subscribers who connect to the switch of the access layer. Because DHCP clients and their associated DHCP server do not reside on the same IP network or online, an agent called DHCP (the Catalyst switch) is configured with an assistant address to enable streaming to send and transfer DHCP messages between clients and the server. Figure 25-1 DHCP Relay agent in a Metropolitan Ethernet Network When you enable DHCP snooping information option-82 about the change, this sequence of events occurs: The Host (DHCP client) generates a DHCP request and broadcast it on the network. When the change receives the DHCP request, it adds the option -82 information to the package. By default, the remote-ID suboption is the MAC address changed, and the circuit-ID suboption is the port identifier, vlan-mode port from which the package is received. The IP address of the agent called configured change this IP address to the DHCP package. The change forwards DHCP requests that include the Option Field=82 to the DHCP server. The DHCP server receives the package. If the server is option-82-capable, it can use the remote ID, the circuit ID, or both are assigned IP addresses and applied policies, such as restricting the number of IP addresses that can be assigned to a remote ID one ID or circuit ID. The DHCP server then repeats the option field-82 in the DHCP reply. The DHCP server indicates the response to the switch if the relay request of the server is not the change. The change verifies that it originally inserted the data option -82 by inspecting the remote ID and possibly the circuit field ID circuit. Change the Remove option - 82 of the field and forwards the package to the switch port that connects to the DHCP client that sends the DHCP request. In the default suboption configuration, when the sequence described in Event occurs. The values in the following fields of Figure 25-2 do not change: Circuit-ID Substence field - Type Of Substunon - Length of the suboption type - Substence-ID Type - Length of circuit -ID Type Remote-ID field Subordination - Type Subordination - Length of the subussive type - Remote-ID type - length of the submote-ID type of the port field of the substence-ID, port numbers start at 3. For example, on a switch with eight 10/100 skins and small form-factor plug(SFP) slots mode, port 3 is Fast Ethernet 1/1 port, port 4 is the Fast Gigabit 1/2 port, and so forth. Port 11 is the SFP slot module 1/1, and so forth. Figure 25-2 shows the package formats for the remote-ID suscion and the circuit-ID suscion default suboption configuration is used. Change the use of the package formats when you globally enable DHCP snooping and enter dhcp ip snooping global configuration commands option. Figure 25-2 Suboption Package Format displays the package formats for user-configured remote-id and circuit-id circuit-id use the package format such when DHCP snooping is globally enabled and when ip dhcp the snooping formatting option remote-id global configuration command and the dhcp ip snooping information vlan option format-type circuit-id configuration commands to enter. The values for these fields of package are changed from the default values when you configure the advertisement-id suboption: Circuit ID field-id - The circuit-ID type is - . The length values variables, depending on the length of the string that you configure. Remote-ID field suboption - The remote-ID type is - . The length values variables, depending on the length of the string that you configure. Figure 25-3 User-configured package format Suboption during the DHCP-based autoconfiguration process, the designated DHCP server uses the CISOS DHCP server database. It has IP addresses, license addresses, and configuration parameters, such as the boot file. An address license is a map between an IP address and a MAC address of a host in the Cisco IOS DHCP server database. You can manually assign the client IP address, or the DHCP server can be assigned an IP address from a DHCP address. When DHCP snooping is enabled, switch to Use the Snooping DHCP database to store information about untrusted interfaces. The database can have up to 8192 obligations. Each database entry (license) contains an IP address, an associated MAC address, the lease (in hexadecimal format), the kides in which the list is applied, and the VLAN that the cathed belongs to. The database agent stores the licenses in a file at a configured location. At the end of each entry is a check that accounts for all the bytes from the beginning of the file to all the bytes associated with the entry. Each entry is 72 bytes, followed by a space and then the value is checked. To maintain the binding when changes are changed, you must use the DHCP database agent. If the agent is disabled, dynamic ARP inspection or IP source guard is enabled, and DHCP snooping database binding contains dynamic fluids, changing to lose its connection. If the agent disables and only DHCP snooping is enabled, the change does not lose its connection, but DHCP snooping might not prevent spoofing DHCP attacks. When you are reloading, the switch reads the required file to build the DHCP snooping database binding. Change the last record when the database changes. When a switch learns the new binding or when it loses binding, the switch immediately updates the entries to the database. The change also updates the entries in the obligation file. The frequency in which file is updated based on a configurable backlog, and the updates are batch. If the file is not updated at a specific time (set by the user in the write-backlog and value aboard time), stop them update. This is the format of the file with luxury: #initial-checksum<git>TYPE DHCP-SNOOPING VERSION 1 START #lentry-1&gt;&lcheckum-1&gt;&lentry-2&gt;&lcheckum-2&gt;&lentry-3&gt;&lcheckum-3&gt;&lentry-4&gt;&lcheckum-4&gt;&lentry-5&gt;&lcheckum-5&gt;&lentry-6&gt;&lcheckum-6&gt;&lentry-7&gt;&lcheckum-7&gt;&lentry-8&gt;&lcheckum-8&gt;&lentry-9&gt;&lcheckum-9&gt;&lentry-10&gt;&lcheckum-10&gt;&lentry-11&gt;&lcheckum-11&gt;&lentry-12&gt;&lcheckum-12&gt;&lentry-13&gt;&lcheckum-13&gt;&lentry-14&gt;&lcheckum-14&gt;&lentry-15&gt;&lcheckum-15&gt;&lentry-16&gt;&lcheckum-16&gt;&lentry-17&gt;&lcheckum-17&gt;&lentry-18&gt;&lcheckum-18&gt;&lentry-19&gt;&lcheckum-19&gt;&lentry-20&gt;&lcheckum-20&gt;&lentry-21&gt;&lcheckum-21&gt;&lentry-22&gt;&lcheckum-22&gt;&lentry-23&gt;&lcheckum-23&gt;&lentry-24&gt;&lcheckum-24&gt;&lentry-25&gt;&lcheckum-25&gt;&lentry-26&gt;&lcheckum-26&gt;&lentry-27&gt;&lcheckum-27&gt;&lentry-28&gt;&lcheckum-28&gt;&lentry-29&gt;&lcheckum-29&gt;&lentry-30&gt;&lcheckum-30&gt;&lentry-31&gt;&lcheckum-31&gt;&lentry-32&gt;&lcheckum-32&gt;&lentry-33&gt;&lcheckum-33&gt;&lentry-34&gt;&lcheckum-34&gt;&lentry-35&gt;&lcheckum-35&gt;&lentry-36&gt;&lcheckum-36&gt;&lentry-37&gt;&lcheckum-37&gt;&lentry-38&gt;&lcheckum-38&gt;&lentry-39&gt;&lcheckum-39&gt;&lentry-40&gt;&lcheckum-40&gt;&lentry-41&gt;&lcheckum-41&gt;&lentry-42&gt;&lcheckum-42&gt;&lentry-43&gt;&lcheckum-43&gt;&lentry-44&gt;&lcheckum-44&gt;&lentry-45&gt;&lcheckum-45&gt;&lentry-46&gt;&lcheckum-46&gt;&lentry-47&gt;&lcheckum-47&gt;&lentry-48&gt;&lcheckum-48&gt;&lentry-49&gt;&lcheckum-49&gt;&lentry-50&gt;&lcheckum-50&gt;&lentry-51&gt;&lcheckum-51&gt;&lentry-52&gt;&lcheckum-52&gt;&lentry-53&gt;&lcheckum-53&gt;&lentry-54&gt;&lcheckum-54&gt;&lentry-55&gt;&lcheckum-55&gt;&lentry-56&gt;&lcheckum-56&gt;&lentry-57&gt;&lcheckum-57&gt;&lentry-58&gt;&lcheckum-58&gt;&lentry-59&gt;&lcheckum-59&gt;&lentry-60&gt;&lcheckum-60&gt;&lentry-61&gt;&lcheckum-61&gt;&lentry-62&gt;&lcheckum-62&gt;&lentry-63&gt;&lcheckum-63&gt;&lentry-64&gt;&lcheckum-64&gt;&lentry-65&gt;&lcheckum-65&gt;&lentry-66&gt;&lcheckum-66&gt;&lentry-67&gt;&lcheckum-67&gt;&lentry-68&gt;&lcheckum-68&gt;&lentry-69&gt;&lcheckum-69&gt;&lentry-70&gt;&lcheckum-70&gt;&lentry-71&gt;&lcheckum-71&gt;&lentry-72&gt;&lcheckum-72&gt;&lentry-73&gt;&lcheckum-73&gt;&lentry-74&gt;&lcheckum-74&gt;&lentry-75&gt;&lcheckum-75&gt;&lentry-76&gt;&lcheckum-76&gt;&lentry-77&gt;&lcheckum-77&gt;&lentry-78&gt;&lcheckum-78&gt;&lentry-79&gt;&lcheckum-79&gt;&lentry-80&gt;&lcheckum-80&gt;&lentry-81&gt;&lcheckum-81&gt;&lentry-82&gt;&lcheckum-82&gt;&lentry-83&gt;&lcheckum-83&gt;&lentry-84&gt;&lcheckum-84&gt;&lentry-85&gt;&lcheckum-85&gt;&lentry-86&gt;&lcheckum-86&gt;&lentry-87&gt;&lcheckum-87&gt;&lentry-88&gt;&lcheckum-88&gt;&lentry-89&gt;&lcheckum-89&gt;&lentry-90&gt;&lcheckum-90&gt;&lentry-91&gt;&lcheckum-91&gt;&lentry-92&gt;&lcheckum-92&gt;&lentry-93&gt;&lcheckum-93&gt;&lentry-94&gt;&lcheckum-94&gt;&lentry-95&gt;&lcheckum-95&gt;&lentry-96&gt;&lcheckum-96&gt;&lentry-97&gt;&lcheckum-97&gt;&lentry-98&gt;&lcheckum-98&gt;&lentry-99&gt;&lcheckum-99&gt;&lentry-100&gt;&lcheckum-100&gt;&lentry-101&gt;&lcheckum-101&gt;&lentry-102&gt;&lcheckum-102&gt;&lentry-103&gt;&lcheckum-103&gt;&lentry-104&gt;&lcheckum-104&gt;&lentry-105&gt;&lcheckum-105&gt;&lentry-106&gt;&lcheckum-106&gt;&lentry-107&gt;&lcheckum-107&gt;&lentry-108&gt;&lcheckum-108&gt;&lentry-109&gt;&lcheckum-109&gt;&lentry-110&gt;&lcheckum-110&gt;&lentry-111&gt;&lcheckum-111&gt;&lentry-112&gt;&lcheckum-112&gt;&lentry-113&gt;&lcheckum-113&gt;&lentry-114&gt;&lcheckum-114&gt;&lentry-115&gt;&lcheckum-115&gt;&lentry-116&gt;&lcheckum-116&gt;&lentry-117&gt;&lcheckum-117&gt;&lentry-118&gt;&lcheckum-118&gt;&lentry-119&gt;&lcheckum-119&gt;&lentry-120&gt;&lcheckum-120&gt;&lentry-121&gt;&lcheckum-121&gt;&lentry-122&gt;&lcheckum-122&gt;&lentry-123&gt;&lcheckum-123&gt;&lentry-124&gt;&lcheckum-124&gt;&lentry-125&gt;&lcheckum-125&gt;&lentry-126&gt;&lcheckum-126&gt;&lentry-127&gt;&lcheckum-127&gt;&lentry-128&gt;&lcheckum-128&gt;&lentry-129&gt;&lcheckum-129&gt;&lentry-130&gt;&lcheckum-130&gt;&lentry-131&gt;&lcheckum-131&gt;&lentry-132&gt;&lcheckum-132&gt;&lentry-133&gt;&lcheckum-133&gt;&lentry-134&gt;&lcheckum-134&gt;&lentry-135&gt;&lcheckum-135&gt;&lentry-136&gt;&lcheckum-136&gt;&lentry-137&gt;&lcheckum-137&gt;&lentry-138&gt;&lcheckum-138&gt;&lentry-139&gt;&lcheckum-139&gt;&lentry-140&gt;&lcheckum-140&gt;&lentry-141&gt;&lcheckum-141&gt;&lentry-142&gt;&lcheckum-142&gt;&lentry-143&gt;&lcheckum-143&gt;&lentry-144&gt;&lcheckum-144&gt;&lentry-145&gt;&lcheckum-145&gt;&lentry-146&gt;&lcheckum-146&gt;&lentry-147&gt;&lcheckum-147&gt;&lentry-148&gt;&lcheckum-148&gt;&lentry-149&gt;&lcheckum-149&gt;&lentry-150&gt;&lcheckum-150&gt;&lentry-151&gt;&lcheckum-151&gt;&lentry-152&gt;&lcheckum-152&gt;&lentry-153&gt;&lcheckum-153&gt;&lentry-154&gt;&lcheckum-154&gt;&lentry-155&gt;&lcheckum-155&gt;&lentry-156&gt;&lcheckum-156&gt;&lentry-157&gt;&lcheckum-157&gt;&lentry-158&gt;&lcheckum-158&gt;&lentry-159&gt;&lcheckum-159&gt;&lentry-160&gt;&lcheckum-160&gt;&lentry-161&gt;&lcheckum-161&gt;&lentry-162&gt;&lcheckum-162&gt;&lentry-163&gt;&lcheckum-163&gt;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