


1. Static & Dynamic MAC Address test:

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| Testcase | To check the Static & dynamic MAC address test |
| Procedure | <ol style="list-style-type: none"> 1. Login to switch using console 2. Connect the setup as shown in figure below. 3. Configure the switch using below commands. <div style="text-align: center;"> <p>VLAN -1 IP Address of Switch - 192.168.0.1/24</p>  <p>G 0/1</p> <p>IP Address of PC 192.168.0.11/24</p> </div> |
| Configuration | <p>Switch configuration:</p> <pre>Switch_config#mac address-table static 4a46.6587.34f7 vlan 1 interface g0/1 //to assign static mac address to a port manually Switch_config#show mac address-table static //to check static addresses Switch_config# show mac address-table //to check all mac addresses Switch_config# show mac address-table dynamic //to check dynamic addresses Switch_config#show mac address-table dynamic interface g0/1 //to check dynamic addresses on port interface Switch_config#show mac address-table dynamic vlan 1 //to check dynamic addresses on vlan interface</pre> |
| Test result | <ul style="list-style-type: none"> • Static MAC Address <pre>Switch_config#show mac address-table static Mac Address Table (Total 3) ----- Vlan Mac Address Type Ports ---- - 1 4a46.6587.3456 STATIC g0/1 1 4a46.6587.34f7 STATIC g0/1 1 6846.6587.3456 STATIC g0/1 Switch_config# Switch_config# Switch_config#</pre> <p>MAC Address should not be multicast address for assigning as static.</p> <ul style="list-style-type: none"> • Dynamic MAC Address |

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| | <pre>COM9 - PuTTY Switch_config#show mac address-table ? dynamic -- Dynamic entry type security -- Security entry type brief -- Brief information static -- Static entry type multicast -- Multicast entry type interface -- Interface keyword vlan -- Vlan keyword F.H.H -- 48 Bit mac address blackhole -- Blackhole entry ! -- Output modifiers <cr> Switch_config#show mac address-table Mac Address Table (Total 1) ----- Vlan Mac Address Type Ports --- 1 000e.0988.0bed DYNAMIC g0/1 Switch_config#show mac address-table dynamic Mac Address Table (Total 1) ----- Vlan Mac Address Type Ports --- 1 000e.0988.0bed DYNAMIC g0/1 Switch_config#show mac address-table dynamic interface g0/1 Mac Address Table (Total 1) ----- Vlan Mac Address Type Ports --- 1 000e.0988.0bed DYNAMIC g0/1 Switch_config#show mac address-table dynamic vlan 1 Mac Address Table (Total 1) ----- Vlan Mac Address Type Ports --- 1 000e.0988.0bed DYNAMIC g0/1 Switch_config# Switch_config# Switch_config# Switch_config#</pre> |
| Remarks | Working |