Hello guys! Good day to you all, I’m currently studying for CCNA 200-120 Routing & Switching. Please I need your help!

I configured this Network using EIGRP Routing Protocol and I did not configure VLAN 1 on any of the CORE switches or other Switches and therefore none of the 9 Switches is assigned IP Address.

I configured sub-Interfaces for VLAN 10 and VLAN 20, VLAN 30 and VLAN 40, & VLAN 50 and VLAN 60 on R_1, R_2 & R_3 respectively using the “ENCAPSULATION DOT1Q” statement.
Even though I did not assign IP Address to any of the 9 Switches, my greatest surprise is that, I can PING across all VLANs i.e. VLAN 10 for example can PING VLAN 20, VLAN 30, VLAN 40, VLAN 50 and VLAN 60 successfully and vice versa.

Now my Question is this;

Since I can PING across all VLANs successfully without assigning IP Address to any of the 9 Switches on the network, what would have been the need to assign IP Address to any or all of the 9 Switches? In other world, what would be the disadvantage/implication of not assigning IP Address to any of or all the 9 Switches. Thanks a lot.