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| **Command** | **Description** |
| interface Ethernet X | Configures the specified Ethernet interface. |
| no switchport | Disables switching mode, enabling the interface for Layer 3 IP routing. |
| ip address X.X.X.X/Y | Assigns an IP address to the interface. |
| interface Loopback 0 | Configures the Loopback 0 interface. |
| shutdown | Disables an interface. |
| router ospf 1 | Enables the OSPF routing process with a process ID of 1. |
| network X.X.X.X/Y area 0 | Advertises the specified network in OSPF Area 0. |
| passive-interface default | Configures all interfaces as passive by default in OSPF. |
| no passive-interface Ethernet X | Enables specific interfaces for OSPF neighbor formation and updates. |
| show ip ospf neighbor | Displays OSPF neighbor relationships and their states. |
| how ip ospf interface Ethernet X | Shows OSPF-specific information for the given interface. |
| show ip ospf database | Displays the OSPF database, including LSAs received and advertised by the router. |
| ping X.X.X.X | Tests connectivity to a specified IP address. |