



# Section 1 - LAN Switching

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# Task 1.12

- INE has decided to move from PVST to MST. Ensure the following requirements are met:
  - Create a voice VLAN 200 on SW1 with the name as VOICE. Assign VLAN 200 an IP address of 172.16.1.2/24 on SW2.
  - Use region named INE and a revision of 1.
  - Instance 1 should service VLANs 1 - 100.
  - Instance 2 should service VLANs 101 - 200.
  - Instance 3 should service all other VLANs.
  - MST instances must only be configured on SW1 and other switches must replicate the MST configuration changes.
  - Ensure MST instance 2 is active on all switches.
  - Configure SW1 as the STP Root Bridge for instance 1.
  - Configure SW2 as the STP Root Bridge for instance 2.
  - Configure SW3 as the STP Root Bridge for instance 3.
  - If SW1 goes down, SW2 should become the STP Root Bridge for instance 1.
  - If SW2 goes down, SW1 should become the STP Root Bridge for instance 2.
  - If SW3 goes down, SW4 should become the STP Root Bridge for instance 3.
  - Use the lowest priority values to achieve task requirements.
  - Using Spanning-Tree cost, ensure that traffic for instance 3 from SW1 to SW3 uses the port-channel between SW1 and SW2. If this link goes down, traffic should use the port-channel between SW1 and SW3.