

**SUBJECT:** CN LAB

**Project Documentation**

**Submitted To:** Sir Rasikh

Section: 5A

**Submitted By:**

Behroze Badar (BSDS-020)

**Project Deliverables Document**

**Organization Name:**

Superior University - Gold Campus

**Number of Floors in the Organization:**

* Mini Basement
* Ground Floor
* 1st Floor
* 2nd Floor

**Connection Details in the System:**

#### ****Mini Basement****

#### ****Server Room:****

* + **Core Networking Devices:**
    - 1 Core Router
      * **VLAN’s:** 
        + VLAN: 10,20,30,40,50,60,70,80,90,100,110,120,130,140,150,160,170 🡪 C-router gig0/0
    - 1 Core Switch (fa0/4-18 assigned to Access Switches | fa0/2-3 VLAN10)
  + **Servers:**
    - 2 Servers (IP DHCP 192.168.10.11 – 192.168.10.12) (Connected via VLAN 10 through Core Switch)

#### ****Basement\_Admin Room:****

* + 1 Switch (VLAN 20)
    - **Port:**
      * Fa0/1🡪C-router gig0/1
    - **Wire:**
      * Copper Cross-Over
  + 3 PC’s (IP’s DHCP 192.168.2.11 – 192.168.2.13)

#### ****Ground Floor (CS Department):****

* **Admin Office:**
  + 1 Access Switch (VLAN 30)
    - **Port:**
      * Fa0/1🡪C-switch fa0/4
    - **Wire:**
      * Copper Cross-Over
  + 2 PC’s (IP’s DHCP 192.168.3.11 – 192.168.3.13)
    - **Port:**
      * PC’s fa0🡪A-switch fa0/2-3
    - **Wire:**
      * Copper Straight-Through
* **Account Office (Shared):**
  + 1 Access Switch (VLAN 40)
    - **Port:**
      * Fa0/1🡪C-switch fa0/5
    - **Wire:**
      * Copper Cross-Over
  + 2 PC’s (IP’s DHCP 192.168.4.11 – 192.168.4.13)
    - **Port:**
      * PC’s fa0🡪A-switch fa0/2-3
    - **Wire:**
      * Copper Straight-Through
* **Admission Office (Shared):**
  + 1 Access Switch (VLAN 50)
    - **Port:**
      * Fa0/1🡪C-switch fa0/6
    - **Wire:**
      * Copper Cross-Over
  + 2 PC’s (IP’s DHCP 192.168.5.11 – 192.168.5.13)
    - **Port:**
      * PC’s fa0🡪A-switch fa0/2-3
    - **Wire:**
      * Copper Straight-Through
* **Library (Shared):**
  + 1 Access Switch (VLAN 60)
    - **Port:**
      * Fa0/1🡪C-switch fa0/7
    - **Wire:**
      * Copper Cross-Over
  + 2 PC’s (IP’s DHCP 192.168.6.11 – 192.168.6.13)
    - **Port:**
      * PC’s fa0🡪A-switch fa0/2-3
    - **Wire:**
      * Copper Straight-Through
* **LAB1:** 
  + 1 Access Switch (VLAN 70)
    - **Port:**
      * Fa0/1🡪C-switch fa0/8
    - **Wire:**
      * Copper Cross-Over
  + 3 PC’s (IP’s DHCP 192.168.7.11 – 192.168.7.14)
    - **Port:**
      * PC’s fa0🡪A-switch fa0/2-4
    - **Wire:**
      * Copper Straight-Through
* **LAB2:**
  + 1 Access Switch (VLAN 80)
    - **Port:**
      * Fa0/1🡪C-switch fa0/9
    - **Wire:**
      * Copper Cross-Over
  + 3 PC’s (IP’s DHCP 192.168.8.11 – 192.168.8.14)
    - **Port:**
      * PC’s fa0🡪A-switch fa0/2-4
    - **Wire:**
      * Copper Straight-Through
* **LAB3:** 
  + 1 Access Switch (VLAN 90)
    - **Port:**
      * Fa0/1🡪C-switch fa0/10
    - **Wire:**
      * Copper Cross-Over
  + 3 PC’s (IP’s DHCP 192.168.9.11 – 192.168.9.14)
    - **Port:**
      * PC’s fa0🡪A-switch fa0/2-4
    - **Wire:**
      * Copper Straight-Through

#### ****1st Floor (IT Department):****

* **Admin Office:**
  + 1 Access Switch (VLAN 100)
    - **Port:**
      * Fa0/1🡪C-switch fa0/11
    - **Wire:**
      * Copper Cross-Over
  + 2 PC’s (IP’s DHCP 192.168.10.11 – 192.168.10.13)
    - **Port:**
      * PC’s fa0🡪A-switch fa0/2-3
    - **Wire:**
      * Copper Straight-Through
* **IT Room:**
  + 1 Access Switch (VLAN 110)
    - **Port:**
      * Fa0/1🡪C-switch fa0/12
    - **Wire:**
      * Copper Cross-Over
  + 2 PC’s (IP’s DHCP 192.168.11.11 – 192.168.11.13)
    - **Port:**
      * PC’s fa0🡪A-switch fa0/2-3
    - **Wire:**
      * Copper Straight-Through
* **LAB4:** 
  + 1 Access Switch (VLAN 120)
    - **Port:**
      * Fa0/1🡪C-switch fa0/13
    - **Wire:**
      * Copper Cross-Over
  + 3 PC’s (IP’s DHCP 192.168.12.11 – 192.168.12.14)
    - **Port:**
      * PC’s fa0🡪A-switch fa0/2-4
    - **Wire:**
      * Copper Straight-Through
* **LAB5:**
  + 1 Access Switch (VLAN 130)
    - **Port:**
      * Fa0/1🡪C-switch fa0/14
    - **Wire:**
      * Copper Cross-Over
  + 3 PC’s (IP’s DHCP 192.168.13.11 – 192.168.13.14)
    - **Port:**
      * PC’s fa0🡪A-switch fa0/2-4
    - **Wire:**
      * Copper Straight-Through
* **LAB6:** 
  + 1 Access Switch (VLAN 140)
    - **Port:**
      * Fa0/1🡪C-switch fa0/15
    - **Wire:**
      * Copper Cross-Over
  + 3 PC’s (IP’s DHCP 192.168.14.11 – 192.168.14.14)
    - **Port:**
      * PC’s fa0🡪A-switch fa0/2-4
    - **Wire:**
      * Copper Straight-Through

#### ****2nd Floor (SE Department):****

* **Admin Office:**
  + 1 Access Switch (VLAN 150)
    - **Port:**
      * Fa0/1🡪C-switch fa0/16
    - **Wire:**
      * Copper Cross-Over
  + 2 PC’s (IP’s DHCP 192.168.15.11 – 192.168.15.13)
    - **Port:**
      * PC’s fa0🡪A-switch fa0/2-3
    - **Wire:**
      * Copper Straight-Through
* **LAB7:** 
  + 1 Access Switch (VLAN 160)
    - **Port:**
      * Fa0/1🡪C-switch fa0/17
    - **Wire:**
      * Copper Cross-Over
  + 3 PC’s (IP’s DHCP 192.168.16.11 – 192.168.16.14)
    - **Port:**
      * PC’s fa0🡪A-switch fa0/2-4
    - **Wire:**
      * Copper Straight-Through
* **LAB8:**
  + 1 Access Switch (VLAN 170)
    - **Port:**
      * Fa0/1🡪C-switch fa0/18
    - **Wire:**
      * Copper Cross-Over
  + 3 PC’s (IP’s DHCP 192.168.17.11 – 192.168.17.14)
    - **Port:**
      * PC’s fa0🡪A-switch fa0/2-4
    - **Wire:**
      * Copper Straight-Through
* **TOTAL ROOMS/LABS:**
  + 4 Admin Rooms
  + 1 Server Room
  + 1 Account Office
  + 1 Admission Office
  + 1 Library
  + 1 IT Room
  + 8 Labs