Proposed ip range 172.16.0.0/23

Student

VLAN NAMES

|  |  |
| --- | --- |
| NAME | VLAN |
| Student | 2 |
| Teacher | 3 |
| Finance | 4 |
| HR | 5 |
| Department Head | 6 |
| Marketing | 7 |
| IT | 8 |
| Principal | 9 |
| Servers | 10 |
| Native | 99 |
| Management | 20 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Devices | Interfaces |  | INTERFACE CONNECTED |  |  |  |
| R1 | S0/1/0- R2  S0/1/1- R3 |  |  |  |  |  |
| R2 | S0/2/0 – R1  Go1  G01.2  G0/1.3  G0/1.4  G0/1.5  G0/1.6  G0/1.7  G0/1.8  G0/1.9  G0/1.99 |  |  |  |  |  |
| R3 | Go1  G01.2  G0/1.3  G0/1.4  G0/1.4  G0/1.6  G0/1.7  G0/1.8  G0/1.9  G0/1.99  S0/1/0 |  |  |  |  |  |
| S1 |  |  |  |  |  |  |
| S2 |  |  |  |  |  |  |
| DC |  |  |  |  |  |  |
| EX |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**CONNECTIONS**

**Interfaces on s2**- From F0/15 – 24 StudentPC’s

F0/11-14 Teachers PC

F0/9-10 Finance

DH Fa0/3 Fa0/10 IT

Fa0/4 Principal Fa0/5 Secretary

Fa0/6-7 – Marketing Fa0/8 - HR

Interface f0/1-2 connected to S1

**Interfaces on S1**- G0/1 connected to R2

Fa0/1-2 connected to S2

ROUTER 1

S0/1/0(Serial 0) – R2

S0/1/1(Serial 1) -R3

ROUTER 2

S0/2/0 (Serial 0)– R1

G0/0 – R3

ROUTER 3

S0/1/0(Serial 0) – R1

**G0/0 – R2**

**EXCLUDE ADDRESS 172.16.1.99**

**]**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **VLAN** | **Network ADD** | **R3 ADDRESS** | **R2ADDRESS** | **VIRTUAL ADDRESS** | **IP RANGE**  **START** | **IP RANGE**  **FINISJH** | **Subnet** |
| **STUDENT2** | **172.16.0.0** | **172.16.0.1** | **172.16.0.2** | **172.16.0.3** | **172.16.0.4** | **172.16.0.254** | **.0** |
| **Teacher 3** | **172.16.1.0** | **172.16.1.1** | **172.16.1.2** | **172.16.1.3** | **172.16.1.4** | **172.16.1.30** | **.224** |
| **Finance 4** | **172.16.1.32** | **172.16.1.33** | **172.16.1.34** | **172.16.1.35** | **172.16.1.36** | **172.16.1.62** | **.224** |
| **HR 5** | **172.16.1.64** | **172.16.1.65** | **172.16.1.66** | **172.16.1.67** | **172.16.1.68** | **172.16.1.94** | **.224** |
| **Marketing 6** | **172.16.1.96** | **172.16.1.97** | **172.16.1.98** | **172.16.1.99** | **172.16.1.100** | **172.16.1.126** | **.224** |
| **DepartmentHead7** | **172.16.1.128** | **172.16.1.129** | **172.16.1.130** | **172.16.1.131** | **172.16.1.132** | **172.16.1.142** | **.240** |
| **IT 8** | **172.16.1.144** | **172.16.1.145** | **172.16.1.146** | **172.16.1.147** | **172.16.1.148** | **172.16.1.158** | **.240** |
| **Principal/Secretary9** | **172.16.1.160** | **172.16.1.161** | **172.16.1.162** | **172.16.1.163** | **172.16.1.164** | **172.16.1.166** | **.248** |
| **SERVER 10** | **172.16.1.168** | **172.16.1.169** | **172.16.1.170** | **172.16.1.171** | **172.16.1.172** | **172.16.1.174** | **.248** |
| **R1 and R2** | **172.16.1.176** |  |  |  | **172.16.1.177** | **172.16.1.178** | **.252** |
| **R1 and R3** | **172.16.1.180** |  |  |  | **172.16.1.181** | **172.16.1.182** | **.252** |
| **R2 and R3** | **172.16.1.184** |  |  |  | **172.16.1.185** | **172.16.1.186** | **.252** |