**IP ADDRESSING :**

**Basic Network : 192.168.10.0**

**(**Each subnet can accomadate 62 hosts **)**

**FIRST FLOOR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Department** | **Network Address** | **Subnet Mask** | **Host Address Range** | **Broadcast Range** |
| MANAGEMENT | 192.168.10.0 | 255.255.255.192/26 | 192.168.10.1 - 192.168.10.62 | 192.168.10.63 |
| RESEARCH | 192.168.10.64 | 255.255.255.192/26 | 192.168.10.65 - 192.168.10.126 | 192.168.10.127 |
| HR | 192.168.10.128 | 255.255.255.192/26 | 192.168.10.129 - 192.168.10.190 | 192.168.10.191 |

**SECOND FLOOR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Department** | **Network Address** | **Subnet Mask** | **Host Address Range** | **Broadcast Range** |
| MARKETING | 192.168.10.192 | 255.255.255.192/26 | 192.168.10.193 - 192.168.10.254 | 192.168.10.255 |
| ACCOUNTS | 192.168.11.0 | 255.255.255.192/26 | 192.168.11.1 - 192.168.11.62 | 192.168.11.63 |
| FINANCE | 192.168.11.64 | 255.255.255.192/26 | 192.168.11.65 - 192.168.11.126 | 192.168.11.127 |

**THIRD FLOOR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Department** | **Network Address** | **Subnet Mask** | **Host Address Range** | **Broadcast Range** |
| LOGISTICS | 192.168.11.128 | 255.255.255.192/26 | 192.168.11.129- 192.168.11.190 | 192.168.11.191 |
| CUSTOMER | 192.168.11.192 | 255.255.255.192/26 | 192.168.11.193 - 192.168.11.254 | 192.168.11.255 |
| GUEST | 192.168.12.0 | 255.255.255.192/26 | 192.168.12.1 - 192.168.12.62 | 192.168.12.63 |

**FOURTH FLOOR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Department** | **Network Address** | **Subnet Mask** | **Host Address Range** | **Broadcast Range** |
| ADMIN | 192.168.12.64 | 255.255.255.192/26 | 192.168.12.65 - 192.168.12.126 | 192.168.12.127 |
| ICT | 192.168.12.128 | 255.255.255.192/26 | 192.168.12.129 - 192.168.12.190 | 192.168.12.191 |
| SERVERROOM | 192.168.12.192 | 255.255.255.192/26 | 192.168.12.193 - 192.168.12.254 | 192.168.12.255 |

**Between the Routers and Layer-3 Switches**

**Base Network Address : 10.10.10.0**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S No** | **Network Address** | **Subnet Mask** | **Host Address Range** | **Broadcast Range** |
| 1 | 10.10.10.0 | 255.255.255.252 | 10.10.10.33 - 10.10.10.34 | 10.10.10.35 |
| 2 | 10.10.10.4 | 255.255.255.252 | 10.10.10.37 - 10.10.10.38 | 10.10.10.39 |
| 3 | 10.10.10.8 | 255.255.255.252 | 10.10.10.41 - 10.10.10.42 | 10.10.10.43 |
| 4 | 10.10.10.12 | 255.255.255.252 | 10.10.10.45- 10.10.10.46 | 10.10.10.47 |
| 5 | 10.10.10.16 | 255.255.255.252 | 10.10.10.49 - 10.10.10.50 | 10.10.10.51 |
| 6 | 10.10.10.20 | 255.255.255.252 | 10.10.10.53 - 10.10.10.54 | 10.10.10.55 |
| 7 | 10.10.10.24 | 255.255.255.252 | 10.10.10.33 - 10.10.10.34 | 10.10.10.35 |
| 8 | 10.10.10.28 | 255.255.255.252 | 10.10.10.37 - 10.10.10.38 | 10.10.10.39 |
| 9 | 10.10.10.32 | 255.255.255.252 | 10.10.10.41 - 10.10.10.42 | 10.10.10.43 |
| 10 | 10.10.10.36 | 255.255.255.252 | 10.10.10.45 - 10.10.10.46 | 10.10.10.47 |
| 11 | 10.10.10.40 | 255.255.255.252 | 10.10.10.49 - 10.10.10.50 | 10.10.10.51 |
| 12 | 10.10.10.44 | 255.255.255.252 | 10.10.10.53 - 10.10.10.54 | 10.10.10.55 |
| 13 | 10.10.10.48 | 255.255.255.252 | 10.10.10.33 - 10.10.10.34 | 10.10.10.35 |
| 14 | 10.10.10.52 | 255.255.255.252 | 10.10.10.37 - 10.10.10.38 | 10.10.10.39 |