**Sub-netting**

**IP Addressing:**

**Base Network: 192.168.10.0**

**First Floor**

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

**Second Floor**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Department** | **Network Address** | **Subnet Mask** | **Host Address Range** | **Broadcast Address** |
| Marketing | 192.168.10.192 | 255.255.255.192/26 | 192.168.10.193 to 192.168.10.254 | 192.168.10.255 |
| Accounts | 192.168.11.0 | 255.255.255.192/26 | 192.168.11.1 to 192.168.11.62 | 192.168.11.63 |
| Finance | 192.168.11.64 | 255.255.255.192/26 | 192.168.11.65 to 192.168.11.126 | 192.168.11.127 |

**Third Floor**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Department** | **Network Address** | **Subnet Mask** | **Host Address Range** | **Broadcast Address** |
| Logistics | 192.168.11.128 | 255.255.255.192/26 | 192.168.11.129 to 192.168.11.190 | 192.168.11.191 |
| Customer | 192.168.11.192 | 255.255.255.192/26 | 192.168.11.193 to 192.168.11.254 | 192.168.11.255 |
| Guest | 192.168.12.0 | 255.255.255.192/26 | 192.168.12.1 to 192.168.12.62 | 192.168.12.63 |

**Fourth Floor**

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

**Between Routers and L3-Switches**

**Base Network Address: 10.10.10.0**

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