**IP Addressing**

**Base Network:** 200.16.1.0

**First Floor**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Department | Network Address | Subnet Mask | Host Addressing Range | Broadcast Address |
| Sales and Marketing | 200.16.1.0 | 255.255.255.128/25 | 200.16.1.1 to 200.16.1.126 | 200.16.1.127 |
| HR and Logistics | 200.16.1.128 | 255.255.255.128/25 | 200.16.1.129 to  200.16.1.254 | 200.16.1.255 |

**Second Floor**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Department | Network Address | Subnet Mask | Host Addressing Range | Broadcast Address |
| Finance and  Accounts | 200.16.2.0 | 255.255.255.128/25 | 200.16.2.1 to 200.16.2.126 | 200.16.2.127 |
| HR and Logistics | 200.16.2.128 | 255.255.255.128/25 | 200.16.2.129 to  200.16.2.254 | 200.16.2.255 |

**Third Floor**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Department | Network Address | Subnet Mask | Host Addressing Range | Broadcast Address |
| ICT | 200.16.3.0 | 255.255.255.128/25 | 200.16.3.1 to 200.16.3.126 | 200.16.3.127 |
| Server Room | 200.16.3.128 | 255.255.255.128/25 | 200.16.3.129 to  200.16.3.254 | 200.16.3.255 |

**Between Router and Layer -3 Switches**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Network Address | Subnet Mask | Host Address Range | Broadcast Address |
| R1-MLSW1 | 200.16.3.144 | 255  .255.255.252 | 200.16.3.145 to  200.16.3.146 | 200.16.3.147 |
| R2-MLSW2 | 200.16.3.148 | 255.255.255.252 | 200.16.3.149 to  200.16.3.150 | 200.16.3.151 |
| R2-MLSW3 | 200.16.3.152 | 255.255.255.252 | 200.16.3.153 to  200.16.3.154 | 200.16.3.155 |
| R2-MLSW4 | 200.16.3.156 | 255.255.255.252 | 200.16.3.157 to  200.16.3.158 | 200.16.3.159 |

**Between Routers and ISPs**

**Public IP Address** 195.136.17.0/30, 195.136.17.4/30, 195.136.7.8/30 and 195.136.17.12/30.

Sales department: 120 devices same for all