|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Subnet** | **Starting Address** | **Ending Address** | Net Address | Broadcast  Address | First Ass. Host | Last Assignation  Host |
| 1.  80hosts  =2^7  =128 | 14.74.120.0/25 | 14.74.120.127/25 | 14.74.120.0/25 | 14.74.120.127/25 | 14.74.120.1/25 | 14.74.120.126/25 |
| 2. 40hosts  =2^6  =64 | 14.74.120.128/26 | 14.74.120.191/26 | 14.74.120.128/26 | 14.74.120.191/26 | 14.74.120.129/26 | 14.74.120.190/26 |
| 3. 20hosts  =2^5  =32 | 14.74.120.192/27 | 14.74.120.223/27 | 14.74.120.192/27 | 14.74.120.223/27 | 14.74.120.193/27 | 14.74.120.222/27 |
| 4. 2hosts  =2^2  =4 | 14.74.120.224/30 | 14.74.120.227/30 | 14.74.120.224/30 | 14.74.120.227/30 | 14.74.120.225/30 | 14.74.120.226/30 |
| 5. 2hosts  =2^2  =4 | 14.74.120.228/30 | 14.74.120.231/30 | 14.74.120.228/30 | 14.74.120.231/30 | 14.74.120.229/30 | 14.74.120.230/30 |

**IP address : 14.74.120.0/22**

**Subnet Information :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Subnet Number** | **Assignable Add.**  **Range** | **Subnet**  **Mask** | **Subnet Add.** | **Broadcast Addess** |
| **1** | **14.74.120.1/25-**  **14.74.120.126/25** | **255.255.255.128** | 14.74.120.0/25 | 14.74.120.127/25 |
| **2** | **14.74.120.129/26-**  **14.74.120.190/26** | **255.255.255.192** | 14.74.120.128/26 | 14.74.120.191/26 |
| **3** | **14.74.120.193/27-**  **14.74.120.222/27** | **255.255.255.224** | 14.74.120.192/27 | 14.74.120.223/27 |
| **4** | **14.74.120.225/30-**  **14.74.120.226/30** | **255.255.255.252** | 14.74.120.224/30 | 14.74.120.227/30 |
| **5** | **14.74.120.229/30-**  **14.74.120.230/30** | **255.255.255.252** | 14.74.120.228/30 | 14.74.120.231/30 |

**Table 2:**

**Addressing Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device** | **Interface** | **Ip Address** | **Subnet Mask** | **Default Gateway** |
| **PC1** | **N/A** | **14.74.120.2** | **255.255.255.128** | **14.74.120.1** |
| **PC2** | **N/A** | **14.74.120.130** | **255.255.255.192** | **14.74.120.129** |
| **PC3(20 hosts)** | **N/A** | **14.74.120.194** | **255.255.255.224** | **14.74.120.193** |
| **HQ** | **FA 0/0** | **14.74.120.129** | **255.255.255.192** | **N/A** |
| **SE 2/0** | **14.74.120.225** | **255.255.255.252** | **N/A** |
| **SE 3/0** | **14.74.120.229** | **255.255.255.252** | **N/A** |
| **B1** | **Fa 0/0** | **14.74.120.1** | **255.255.255.128** | **N/A** |
| **SE 2/0** | **14.74.120.226** | **255.255.255.252** | **N/A** |
| **B2** | **Fa 0/0** | **14.74.120.193** | **255.255.255.224** | **N/A** |
| **Se 3/0** | **14.74.120.230** | **255.255.255.252** | **N/A** |