1

|  |  |  |
| --- | --- | --- |
| Subnet A | 230.197.181.0/25 | 1110 0110.1100 0101.1011 0101.0000 0000 / 25 |
| Subnet B | 230.197.181.128/27 | 1110 0110.1100 0101.1011 0101. 1000 0000/ 27 |
| Subnet C | 230.197.181.192/26 | 1110 0110.1100 0101.1011 0101.1100 0000 / 26 |
| Subnet D | 230.197.181.196/30 | 1110 0110.1100 0101.1011 0101.1100 0100 / 30 |
| Subnet E | 230.197.181.204/29 | 1110 0110.1100 0101.1011 0101.1100 1100 / 29 |
| Subnet F | 230.197.181.212/29 | 1110 0110.1100 0101.1011 0101.1101 0100 / 29 |



Router 1

|  |  |
| --- | --- |
| Longest Prefix Match | Outgoing Interface |
| 1110 0110 1100 1011 0101 1011 0101 0 | Subnet A |
| 1110 0110 1100 1011 0101 1011 0101 1100 01 | Subnet D |
| 1110 0110 1100 1011 0101 1011 0101 1100 11 | Subnet F |

Router 2

|  |  |
| --- | --- |
| Longest Prefix Match | Outgoing Interface |
| 1110 0110 1100 1011 0101 1011 0101 1 | Subnet B |
| 1110 0110 1100 1011 0101 1011 0101 1100 01 | Subnet D |
| 1110 0110 1100 1011 0101 1011 0101 1101 01 | Subnet E |

Router 3

|  |  |
| --- | --- |
| Longest Prefix Match | Outgoing Interface |
| 1110 0110 1100 1011 0101 1011 0101 11 | Subnet C |
| 1110 0110 1100 1011 0101 1011 0101 1100 11 | Subnet E |
| 1110 0110 1100 1011 0101 1011 0101 1100 11 | Subnet F |

2

|  |  |
| --- | --- |
| Match | Action |
| Ingress port = 4  IP src = 10.2.\*.\*  IP dst = 10.1.\*.\* | forward(3) |
| Ingress port = 3  IP src = 10.1.\*.\*  IP dst = 10.2.\*.\* | forward(4) |
| Ingress port = 4  IP dst = 10.3.0.6 | forward(1) |
| Ingress port = 3  IP dst = 10.3.0.6 | forward(1) |
| Ingress port = 3  IP dst = 10.3.0.5 | forward(2) |
| Ingress port = 4  IP dst = 10.3.0.5 | forward(2) |
| Ingress port = 1 | forward(2) |
| Ingress port = 2 | forward(1) |

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