**Turdalin Nurassyl LAB6**

**11.10.2**

1. /25 = 2^7 – 2 = 126
2. 40 + 25 + 5 + 4 + 4 + 2 = 80
3. 6 sunbets
4. Largest: BR1 LAN with 40 hosts
5. 40 IPs
6. /26 is the best.
7. 2^6 – 2 = 62
8. Yes, but we will have unused IPs
9. [192.168.33.128 – 192)
10. BR2 LAN -> 25 IPs -> /27 -> 2^5 – 2 = 30 -> Yes -> [192.168.33.192 – 192.168.33.224)
11. BR2 IoT LAN -> 5 IPs -> /29 -> 2^3 – 2 = 6 -> Yes -> [192.168.33.224 – 192.168.33.232)
12. BR1-BR2 link -> 2 IPs -> /30 -> 2^2 – 2 = 2 -> Yes -> [192.168.33.248 – 192.168.33.252)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Subnet | Hosts | Network Add | First | Broadcast |
| BR1 | 40 | 192.168.33.128 | 192.168.33.129 | 192.168.33.191 |
| BR2 | 25 | 192.168.33.192 | 192.168.33.193 | 192.168.33.223 |
| BR2 IoT | 5 | 192.168.33.224 | 192.168.33.225 | 192.168.33.231 |
| BR2 CCTV | 4 | 192.168.33.232 | 192.168.33.233 | 192.168.33.239 |
| BR2 HVAC | 4 | 192.168.33.240 | 192.168.33.241 | 192.168.33.247 |
| BR1-BR2 link | 2 | 192.168.33.248 | 192.168.33.249 | 192.138.33.251 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Device | Int | IP address | Subnet Mask | Device Int |
| BR1 | G0/0/0 | 192.168.33.249 | 255.255.255.252 | BR1-BR2 link |
| G0/0/1 | 192.168.33.129 | 255.255.255.192 | BR1 |
| BR2 | G0/0/0 | 192.168.33.250 | 255.255.255.252 | BR1-BR2 link |
| G0/0/1 | 192.168.33.193 | 255.255.255.224 | BR2 |

Изображение выглядит как текст

Автоматически созданное описание