Name: Rashik Rahman Id: 17201012

Your VLSM Calculation should go here:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name | Host Requirements | Network Address | Subnet Mask | First Host | Last Hos | Broadcast Address |
| CSE | 3000 | 172.12.0.0/20 | 255.255.240.0 | 172.12.0.1 | 172.12.15.254 | 172.12.15.255 |
| BBA | 2000 | 172.12.16.0/21 | 255.255.248.0 | 172.12.16.1 | 172.12.23.254 | 172.12.23.255 |
| Web\_service\_1 | 4 | 172.12.24.0/29 | 255.255.255.248 | 172.12.24.1 | 172.12.24.6 | 172.12.24.7 |
| Web\_service\_2 | 4 | 172.12.24.8/29 | 255.255.255.248 | 172.12.24.9 | 172.12.24.14 | 172.12.24.15 |
| DNS | 1000 | 160.16.8.0/22 | 255.255.252.0 | 160.16.8.1 | 160.16.11.254 | 160.16.11.255 |

***PLEASE VIEW NEXT PAGE FOR ROUTER CONFIG.***

*IT TAKES NEAR ABOUT 30 SEC TO ACCESS/LOAD A WEBPAGE FOR THE 1ST TIME. AFTER THAT IT TAKES LESS THAN A SECOND TO LOAD THE WEBPAGE.*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name | Requirements | Network address | Subnet Mask | First Host | Last Host | Broadcast address |
| R0(se2)-R1(se2) | 2 | 12.12.12.0 | 255.255.255.252 | 12.12.12.1 | 12.12.12.2 | 12.12.12.3 |
| R1(se3)-R2(se2) | 2 | 12.12.12.4 | 255.255.255.252 | 12.12.12.5 | 12.12.12.6 | 12.12.12.7 |
| R2(se3)-R3(se2) | 2 | 12.12.12.8 | 255.255.255.252 | 12.12.12.9 | 12.12.12.10 | 12.12.12.11 |
| R3(se3)-R7(se2) | 2 | 12.12.12.12 | 255.255.255.252 | 12.12.12.13 | 12.12.12.14 | 12.12.12.15 |
| R7(se3)-R9(se2) | 2 | 12.12.12.16 | 255.255.255.252 | 12.12.12.17 | 12.12.12.18 | 12.12.12.19 |
| R9(se3)-R8(se2) | 2 | 12.12.12.20 | 255.255.255.252 | 12.12.12.21 | 12.12.12.22 | 12.12.12.23 |
| R8(se3)-R6(se2) | 2 | 12.12.12.24 | 255.255.255.252 | 12.12.12.25 | 12.12.12.26 | 12.12.12.27 |
| R6(se3)-R5(se2) | 2 | 12.12.12.28 | 255.255.255.252 | 12.12.12.29 | 12.12.12.30 | 12.12.12.31 |
| R5(se3)-R4(se2) | 2 | 12.12.12.32 | 255.255.255.252 | 12.12.12.33 | 12.12.12.34 | 12.12.12.35 |
| R4(se3)-R0(se3) | 2 | 12.12.12.36 | 255.255.255.252 | 12.12.12.37 | 12.12.12.38 | 12.12.12.39 |