VLSM DIAGRAM PRACTICE SHEET 1

The company expects the use of VLSM Design to maximize the use of IP addresses. A table is to be produced showing all possible subnets that meet the Companies requirements using a VLSM design. A table for recording the VLSM design is below. Expect 0% growth of current IP requirements when determining size of subnets.

* 250 employees for S3
* 150 employees for S2
* 100 employees for S1
* 75 employees for S4
* 40 employees for S6
* 20 servers on separate subnet
* 2 WAN connection’s
* Use network 172.16.0.0/16 for internal addressing.

1. The company expects the use of VLSM to maximize the use of IP addresses. A table is to be produced showing all possible subnets that meet the company’s requirements using a VLSM design.

1. Use the following table for your VLSM design.
2. Add 1 to host requirement for use as the default gateway.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **# of Hosts** | **Network Address** | **1st Useable** | **Last Useable** | **Broadcast Address** | **Subnet Mask** **/ Value** | **# of Possible Hosts** |
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