1/15/2025

Week 1 quiz review:

1. Based on destination address, the router consults the routing table to find the longest match to decide where it gets forwarded
2. Uniquely identify devices on a layer 2 level and gets assigned to an IP address
3. Give subnet mask to support a subnet with a maximum of 25 host addreses

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Subnet | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 256 |
| Host | 258 | 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
| CIDR | /24 | /25 | /26 | /27 | /28 | /29 | /30 | /31 | /32 |