CSET2200 Lecture 8

Review/Questions

Quick review of packet moving
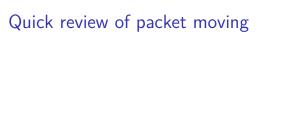
CIDR

- CLassless Inter-domain Routing

The problem

- Classful networks wasteful
- Aggregation was poor
- Route bloat
- Limited big networks

Example - UT

How to solve it

- Allow segmenting network on any bit
- Allow grouping of networks (aggregation)
- Allocation of smaller networks

VLSM

- Variable length subnet mask
- Allows networks to be sized differently
- Core concept of CIDR

Available Networks

Aggregation

- Adjacent networks can be combined where distinction not needed
- Allows more efficient routing
- Large blocks allocated to providers which split them

Example - UT Again

Matching Networks

- Done with Bitwise AND
- Network to match AND subnet - network to match
- Remember 1 is our care bit

Examples

- 64.254.140.4/27
- 64.254.140.165/28
- 72.240.0.0/15
- 131.183.222.23/23

Questions

Next session - more VLSM practice