

Things a network manager needs to be able to do

cs670

Remotely:

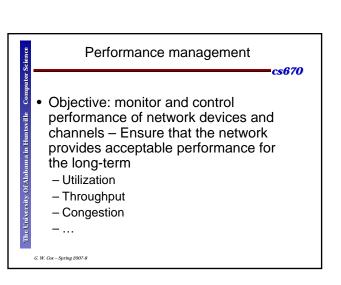
Detect problems in network devices (NICs, routers, links...)

Monitor traffic for resource allocation

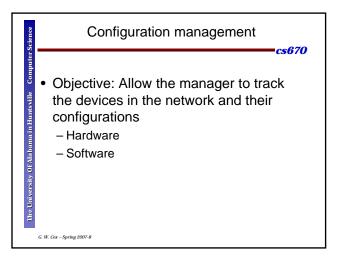
Monitoring performance vs. Service Level Agreements (SLAs)

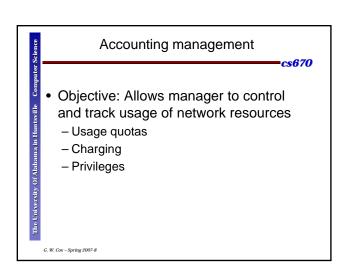
Detect intrusions

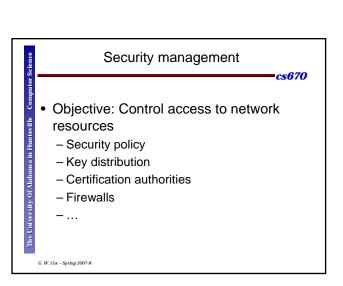
ISO's areas of network management Performance management Fault management Configuration management Accounting management Security management C. W. Cox. - Spring 2007 8



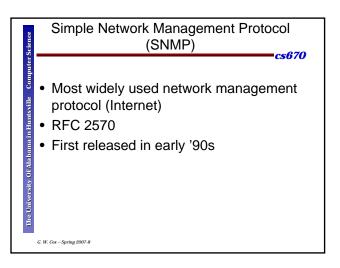
Fault management - CS670 • Objective: detect and respond to faults in the network - Detection / Isolation / Resolution - Router hardware failures - Router software errors - Link failures - Host failures (?)

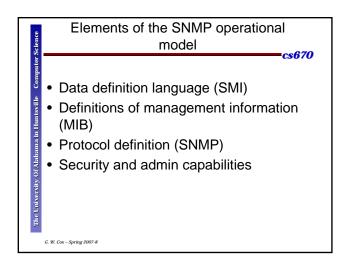


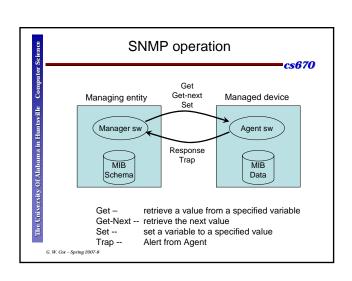




Components of a network management infrastructure **Managing entity - central control point** * Managed device - network hw/sw - Managed objects - individually-managed parts of a device - Management Information Base (MIB) - managed data (in a common db format) - Management agent - local management process * Management protocol - defines the interaction between Managing Entity and Managed Devices **C.W.Cax.-Spring 2007-8**







SNMP transport SNMP messages normally carried by UDP SNMP does not specify a retransmission policy (although there is no prohibition on building one in) C.W.Cax-Spring 2007-8

