

Project Description

Scenario:

Your team is to setup a computer network for your company. There are three departments: Department A has 10 hosts, Department B 60 hosts, and Department C 200 hosts. The company has one file server, one database server, and one remote office with 5 hosts. Access to the servers is allowed for all departments and the remote office.

Requirements:

- The network must consist of at least three routers, three switches, two servers, one host (its IP address must be in a subnet large enough for the department) for each department and the remote office.
- The remote host is connected to the (remote) router. The two servers are connected to one or two different switches.
- The three switches are connected to each other and at least one is connected to one router. The routers are all connected.
- Configuration: subnet, trunk/access, remote access, access control list, frame relay
- Security: port security

Deliverables:

- Network diagram showing connections, IP addresses of interfaces, standard notations/legends
- Group presentation (post presentation to webcourses)
- Network implementation demonstration.

Milestones:

- Draft design
- Final design
- Presentation
- Implementation

Evaluation Criteria:

- Network design: workable, complete, standard notations
- Clear explanation/rationale
- Class and peer evaluation

Notes:

- Project requirements are tentative, could be changed depending on materials covered.
- Bonus points could be earned if technologies not covered in class/lab are implemented. Check with instructor.
- This is a team-work project--every member must participate in design, presentation, and implementation. Change in team must get approval from instructor.