

# System and Network Administration: Mini Project

MobileStar is a company making mobile app. The company has ~60 persons and growing. Company office now occupies 4 floors

## Company info:

- First floor: reception, living room and main meeting room
- Second floor: development team, 30 persons
- Third floor: business team, 10 persons; designer: 10 persons
- Forth floor: board of directors: 5 persons; meeting room; playground. Server room will be here
- Each person has one desktop which requires wired network connection, 1 smart phone and 1 tablet

## Service requirements:

### 1. File server:

- Each person has corresponding right to access data on file server
- Each person has access to common shared public folder, and one private folder
- All working data need to be stored on file server

### 2. Web server and FPT server

- To publish company website and other company web services
- FTP server to access data from outside as well as within local network

### 3. Printer server

- Printer must be available for each floor

### 4. VPN:

- Allow staffs to work remotely from home
- VPN users have all access exactly as local users

### 4. Networks:

- Wired and wireless
- LAN speed must be 1Gbps
- Wireless must be ac standard
- Internet: 4 fiber lines with load balancing. VNPT Fiber office 35Mbps

Provide the network solution for MobileStar company:

1. Logical network map
2. Physical network map
3. IP addressing solution
4. Provide packet tracer setup
5. Individual settings for main network equipment (i.e. routers, switches...)
6. List of network equipment and server need along with price (estimated price base on google, vatgia...)

**Submission:** report + packet tracer file showing your network configurations  
**Due:** 23:59:59, Dec 31<sup>st</sup> 2014