



Internship project.

Hello Teams:

One of our potential clients want our company to build a demonstration environment, to see our solutions can fit their requirements or not. You team is selected for this project, and below are the client's information and their requirements.

They have following employees to use computers to perform their regular:

- CEO (1 person)
- Marketing and Sales department
 - Managers (2 people)
 - Marketing (3 people)
 - Sales (4 people)
- Accounting department
 - Manager (1 person)
 - Accountant (2 people)
- Administration department
 - Manager (1 person)
 - Reception (1 person)
- Production department
 - Manager (1 person)
 - Morning employees (5 people)
 - Evening employees (2 people)
 - On call employees (2 people)
- IT Department
 - Will be your team, and everybody has same position

Client wants to have a computer system can centrally manage their users, documents, printers, etc. under the name of "Contoso" the AD should updated for the creation of OUs and users and groups with a .bat script that read from Excel file DB. The system should be able to achieve following functions:



- Login
 - All users have their own usernames and password.
 - On call employees cannot change their password.
 - Password must be complicate with capital letters and numbers.
 - Do not lock users with login failure
 - Login failure needs to be recorded

 - Morning and evening employees can only login during their shift
 - On call employees can only login to specific computer
- Storage
 - Most users will have their own storage folder with limited storage space.
 - CEO and managers do not have limitation on their personal storage folder.
 - Each department will have their own shared folder with limited storage space.
 - All shares are accessible from one single place.
 - There should be a folder for all employees' access.
 - There should be a folder for CEO and managers.
- Folder structure and permission

CEO will have full access to all folders

 - Mangers have full access permissions to their department folder
 - People can only access their own department shared folder and general shared folder for everyone
 - In Marketing department, marketing cannot see sales documents, and sales will be able read only the marketing documents
 - Under general shared folder, there will a folder called announcement, only CEO and administration manager have permission to modify the contents, all other people can only read
- Printer and printing control
 - There are 3 printers shared for all employees
 - One color printer is only accessible for CEO and managers
 - Everybody can print on other black and white printers
 - Sales have high priority for their printing jobs on the printer
 - Manager and CEO can delete printing queue
 - All printing jobs will be saved
 - Black and white printers will perform load balancing when receiving lot of printing jobs
- Performance and restrictions
 - When user login, all accessible resource should be installed automatically
 - Sales can access their "My Documents" folder from any computer their login
 - On call employee will share same profile, and the profile will rest every time they login
 - Except managers, all other employee cannot access control panel
 - On call employee cannot lock their sessions
 - Computer cannot go to sleep mode
 - Screen should be turned off automatically after 10 minutes idle time.



- Email and Web
 - Client wants to use Linux based email system for their internal communication
 - Regular user has 100M email storage limits
 - Client needs two web sites, one is static contents, host on Windows system, so they can copy their files directly to share easily. Another one is a WordPress website, host on Linux server with SSL protection
- IT Environment
 - All client PC need be deployed from reference image
 - Update needs to be managed centrally
 - Linux server need to be protected with restricted access
 - Hosting on different network from window system
 - Only IT member can manage it via SSH
 - Will sync all IT account from windows system
 - All users need to be able to check the previous version of their storage folder
 - Client needs to have a copy of their data on different place
 - Email and web server need backup
 - Give administration manager, so he can perform disable/enable regular user account and change password for them
 - IT needs to deploy some basic software to users, so they can install it when they need without administrator permissions

Because it the demonstration environment, we need to use as less resource as possible to show to the client.