

Assignment Description:

(15% of final grade)

For this assignment you are to act as a consultant for a company that wishes to move their organization to a distributed system (for your company description please see “**Company Description.pdf**”). You are asked to write a report (approx 1,500 words) for the company CEO who does not have any experience with any area of distributed systems. Describe factors that the company should consider in technical detail, the potential pro’s and cons of each and, using real world examples, suggest potential products or solutions that could match their needs. Finally, make a recommendation of what the final distributed system would look like and your opinion of the future of distributed systems. This should be a structured methodical report with a clear understanding of the issues within each of the concepts.

Your report should include:

- General Overview.
- Discussion of the proposed system design architecture of the company, and how they could manage scalability, availability and security.
- Discussion of the distributed file system that could be used by the company.
- Discussion of the communication protocols (how the different nodes in the distributed system communicate with each other) that could be used by the company.
- Critical evaluation of your key findings, conclusions and recommendations.

Deadlines

23.59, Friday 13th of December 2024.

Submission

The final report must be submitted to CS Moodle on/before the deadline. Submissions received after the deadline will be subject to penalties.

Marking Scheme

1. Overview and relevance to specific company (10%)
2. Critical Evaluation (system design architecture, distributed file system, etc.) (80%)
3. Organization and writing (10%)