

Course Project Scenario Supplemental Information (Sheet 2)

Introduction

The scenario information provided below will be used to supplement the information provided previously and as a guide for completing planning and scheduling activities assigned in Unit IV. If questions arise or if you have specific questions, do not hesitate to contact the professor.

Company

Massive Solutions International (MSI) is a global company providing information technology solutions to a wide customer base.

Challenge

MSI is moving forward with their plans for implementing a new state-of-the-art data center.

Unit IV Objectives

The creation, migration, or relocation of a data center requires a well thought-out strategy as well as comprehensive and detailed planning throughout all phases of the project.

Using the information provided below, your task is to generate a work breakdown structure (WBS) with a decomposition to level 3, produce a project schedule with a basic Gantt chart, and construct a CPM network diagram that provides what you think is the critical path for this project.

A real data center migration is a very complex undertaking and impossible to completely model in a classroom exercise such as this, so you are encouraged to be creative and innovative in addressing the elements of these exercises. If you feel you need to include additional information or expand on any activities, you are encouraged to do so.

1. Current state analysis (CSA): This activity consists of an in-depth look at the current data center and documenting various elements that will play a significant part of the planned project.
 - Complete an inventory of all physical and virtual servers.
 - Complete an inventory of all software applications currently being provided, and assign a critical index factor (CIF) for each.
 - Identify what an acceptable downtime would be for each application.
 - Determine the interdependencies between applications, servers, storage, and telecommunications.
 - Conduct a benchmarking of existing performance metrics of data center operations.
 - Determine viability of moving existing equipment or cost-benefit of procuring new equipment.

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2. Planning and management: Document data center relocation concerns and possible obstacles.
 - Identify potential costs.
 - Develop a budget.
 - Develop a process list of all anticipated move-related tasks.
 - Determine lessons learned from past moves.
 - Test move processes to identify problems or issues.
 - Obtain stakeholder approval to continue project.
3. Data center move strategy: Using the information collected during the CSA, develop a detailed move strategy.
 - Identify key personnel who will be involved with executing the move.
 - Determine if outsourcing of tasks is required.
 - Identify potential risks.
 - Develop risk mitigation processes.
 - Assign servers and applications to move bundles.
 - Prioritize the order in which bundles will be moved to the new data center.
4. Data center migration: This involves activities identified for execution of the move.
 - Shift data center operations to a back-up site.
 - Verify operations are working properly.
 - Shut down current operations.
 - Procure/order new equipment required.
 - Uninstall existing equipment.
 - Prepare for shipment.
 - Track shipment.
 - Receive shipments at new data center.
 - New procurements
 - Existing equipment
 - Install equipment.
 - Test and verify.
 - Install software/applications.
 - Test and verify.
 - Migrate live data from backup site.
 - Test and verify.
5. Post-move verification: Validate data center move was completed correctly and equipment and applications are functioning as required.
 - Ensure all installations are complete.
 - Conduct post-move benchmarks of performance, and compare with pre-move benchmarks to determine delta (difference), if any.

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- Obtain stakeholder approval and acceptance.