[SPM104-23F-001 (CANADIAN INDUSTRY Fall 2023 - 001)](https://lms.stclaircollege.ca/webapps/blackboard/execute/modulepage/view?course_id=_59822_1&cmp_tab_id=_153956_1&mode=view)

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**Assignment**# 1 ProjectCharter

**Project name:** Migrate servers to Amazon Web Service

**Project Identification / Background: -**

This project aims to enhance the scalability and reliability of Amazon Web Services (AWS), addressing the growing need for robust cloud infrastructure. As a leading provider of cloud services, AWS recognizes the opportunity to maintain its market leadership and meet the increasing demand for cloud-based solutions.

* **Business Reasons for the Project: -**

The primary business reasons for this project are as follows:

* Sustain AWS's position as a market leader in cloud computing.
* Ensure high availability and reliability of AWS services to meet customer expectations.
* Enable AWS to accommodate the growing demand for cloud services worldwide.
* **Project Objectives (Purpose): -**

The purpose of this project is to achieve the following specific and measurable goals:

* Increase the availability of AWS services to 99.99% uptime.
* Enhance the scalability to handle a 30% increase in concurrent user requests.
* Reduce service downtime during maintenance to less than 30 minutes per month.
* **Goals: -**
* Achieve 99.99% uptime for AWS services within one year.
* Increase scalability to handle 30% more concurrent user requests within six months.
* Reduce maintenance downtime to less than 30 minutes per month within one year.
* **Scope: -**
* The result of this project will be an upgraded and optimized AWS infrastructure that achieves higher availability and scalability.

**The project will encompass the following phases of work: -**

* Infrastructure assessment and planning.
* Implementation of scalability enhancements.
* Deployment of high-availability configurations.

* **Key Stakeholders: -**
* **Client: AWS Customers**
* **Sponsor:** Kelly Smith
* **Project Manager:** Jason Newton
* **Project Team Members:** Eric Smith, Kirsty Watts, Jake McKinsey and Anna Murry.
* **Project Key Deliverables: -**
* Infrastructure assessment report
* Scalability enhancement documentation.
* High-availability deployment documentation.
* **Project Milestones: -**

* Project Start Date: June 10, 2021
* Project End date: April 10,2025
* **Project Budget: -**

The main project expenses include:

* Infrastructure Assessment and Consultation: $500,000
* Scalability Enhancements: $2,000,000
* Project Team Salaries: $300,000
* High-Availability Deployment: $1,000,000
* **Project Criteria for Success (Must be measurable): -**
* The project will be considered successful if it meets the following criteria:
* Achieves 99.99% uptime for AWS services.
* Successfully handles a 30% increase in concurrent user requests.
* Maintains maintenance downtime below 30 minutes per month.
* Constraints, Assumptions, Risks, and Dependencies.
* **Constraints:**
* Limited downtime windows for infrastructure upgrades.
* Budget constraints for recurring expenses.

**Assumptions:**

* Availability of skilled project team members.
* Access to necessary technology and resources.
* **Risks and Dependencies: -**
* Risk: Technical challenges in enhancing scalability.
* Dependency: Availability of required hardware and software.
* Risk: Unforeseen service disruptions during upgrades.
* Dependency: Timely communication with AWS customers about maintenance schedules.