

ABSTRACT

Technological developments at this time are developing very quickly which will drive the need for more efficient and flexible systems, especially in enterprise resource management (ERP). In this study, the aim is to be able to design a cloud-based server using Amazon Web Services (AWS) for ERP System. The method used in this study uses Software Development Life Cycles (SDLC) in which there are several stages starting from the analysis, design, implementation, testing, deployment, and the last is monitoring. The analysis stage will include the identification of system requirements and also the specifications that will be required. The design will include the design of the cloud server system based on the analysis of the specification needs that have been carried out. The implementation phase will include the process of setting up and also configuring the server using AWS, specifically the use of Amazon EC2 services to be able to run cloud server instances. The testing phase will include ensuring that the cloud server system runs properly and in accordance with the specifications of the requirements that have been determined. The results of this study can show that the use of AWS as a service provider to implement cloud servers will provide high flexibility and scalability in ERP System management. Not only that, an analysis of the costs that will be incurred and also the performance that will be obtained that the recommended server specifications can provide optimal performance with more efficient costs. Later, the infrastructure that will be designed to be reliable in supporting business operations in a more efficient and efficient way.

Keywords: Software Development Life Cycles (SDLC), Amazon Web Services (AWS), Cloud Computing, Server, ERP System.