

## **281. APPLICATION MIGRATION IN CLOUD USING COMPONENT RANKING METHOD**

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Application migration is the process of moving an application program from one environment to another. With cloud migration process, business owners and many companies are allow their information to be provided over the internet on a demand basis. It enables organization to potentially reduce capital expenditure and operating costs. During application migration, an application components can be moved from on premise enterprise service to a cloud provider environment. In existing system legacy application from many companies got migrated on to cloud due to its high scalability and reliability, improving the quality of service by an enterprise is a major concern. Fault tolerance strategy enables a system to continue operating properly in event of failure of some of the components. System in which one piece of hardware support multiple software are subject to software failure and require architecture that tolerate both hardware and software faults. These formatting an efficient and reliable way of migrating the legacy application on cloud is critical. As a solution to this problem reliability based optimization framework is designed to rank the application components by using component ranking Method. Based on the impact and failure rate of the components are identified and if there is no errors are occur in the selected components, then the application can be migrated to the cloud environment.

Index Terms – RBDO (reliability based design optimization), Fault Tolerance and Virtual Machine