

## **CHAPTER – 8**

### **CONCLUSION AND FUTURE SCOPE**

Cloud Computing is a paradigm which is adopted by many stakeholders for achieving optimal service utilization in cloud environment. Software as a Service (SaaS) model sensitized many consumers to adopt cloud services based on its key characteristics and advantages. Metadata called provenance, is the most considerable factor for deriving unambiguous conclusions upon data stored in cloud. Auditing the data and activities in cloud periodically helps to certify the data, cloud consumer's activities and cloud service providers services effectiveness. Hence this research work focuses on performance assessment of a cloud service provider with respect economy, policy effectiveness monitoring and Cloud service providers services efficiency. All the earlier efforts and frameworks deliver performance assessments which are subjective to the specific issue and exhibit isolatable solutions to those demanding situations for that computing environment. The proposed work is an Audit trail of assessing cloud service provider based on economy, effectiveness and efficiency based on provenance data in cloud environment which gave a conclusion that Service providers can be better assessed based on provenance data by auditor than a cloud broker.

In future this idea can be enhanced by improvising assessment policy of service provider's service assessment incorporating migration support in heterogeneous clouds. Securing provenance for performing performance assessments is another most challenging issue which is to be addressed. This research idea can also be carried with Meta heuristics algorithms and artificial intelligence methods. Encompassing the utilization of these methods seems to be more promising for optimality of outcomes in real time environment of cloud computing for SaaS provisioning. These open issues lead for discussion of new research interrogations as a starting point for future research to the coming researchers.