Big data typically coins with large volume of data and various enterprises are involving day to day in cloud environment. Nowadays, Cloud facility adoption has enlarged. With the acceptance of cloud facility, numerous of the enterprises are expending to store and process Large Data in cloud. Safety methods provided by the facility providers might not be sufficient to safe the data in the cloud. Enterprise as well as users are suffering with proper security aspect to store, retrieve and process big data in cloud environment. An access control model with honeypot is presented in this paper. Access control model deals with various parameters of authentication, log etc. Various link and areas are included as honeypot to catch hackers or unauthorized users.

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