Abstract

Cloud computing is a model for enabling convenient, on-demand network access to a shared pool of configurable computing resources that can be rapidly provisioned and unconfined with minimal management effort. Our work mainly targets the learning community by providing an efficient cloud compiler as SaaS by coalescing the two major concepts called cloud computing and open source which helps to diminish the troubles of portability, compatibility, power and storage space by making use of the concept of cloud compiler. The basic underlying architecture to deploy a cloud compiler is the establishment of private cloud under Linux environment, which provides hosted services to a limited number of people and the service is distributed in the heterogeneous manner. Private cloud makes the cloud infrastructure based on Ubuntu Enterprise Cloud (UEC) scalable as per the requirement. And our cloud compiler allows a programmer to pick up the fastest or the most convenient tool to compile the code and remove the errors. The validity of our approach is then verified with the experimental results. Also we have made a performance analysis and the experimental results shows that the performance of cloud compiler is more efficient compared to all other normal compiler. Hence our proposed cloud compiler is considered to be the best performers among the various
compilers.

References

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Index Terms

Computer Science

Cloud Computing
Keywords

Private cloud  SaaS  Cloud setup  Cloud controller  Ubuntu Enterprise Cloud (UEC)