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Scalable cloud without dedicated storage

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We present a prototype of a scalable computing cloud. It is intended to be deployed on the basis of a cluster without a separate dedicated storage. The dedicated storage is replaced by the distributed software storage. In addition, all cluster nodes are used both as computing nodes and as storage nodes. This increases utilization of the cluster resources as well as improves the fault tolerance and performance of distributed storage. Another advantage of this solution is high scalability with relatively low initial and maintenance cost. The solution is built on the basis of the open source components like CloudStack, Ceph, etc.

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