



SolidFire: The most advanced block storage solution for CloudStack.

Demand more from the storage underpinning your CloudStack infrastructure.

CloudStack and SolidFire

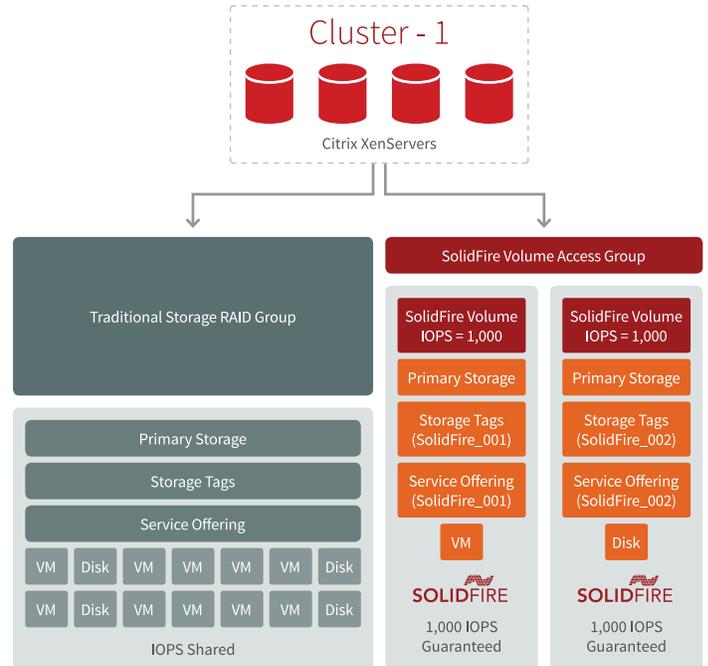
Hosting performance-sensitive applications in a CloudStack-powered cloud infrastructure requires an advanced block storage platform like SolidFire. No other vendor can combine a supported storage integration behind a production-ready CloudStack deployment, with the performance and Quality of Service (QoS) controls required to confidently host performance sensitive applications in a multi-tenant infrastructure.

The Apache CloudStack project

Apache CloudStack is a top-level project of the Apache Software Foundation (ASF). The CloudStack project was created after Citrix's donation of the CloudStack project to the Apache Foundation. The project develops open-source software designed to deploy and manage large networks of virtual machines, as a highly-available, highly-scalable Infrastructure as a Service (IaaS) cloud computing platform. CloudStack is used by a number of cloud providers to offer public cloud services, and by many companies to provide an on-premises (private) cloud offering, or as part of a hybrid cloud solution.

CloudStack block storage

In its current form, CloudStack allows an administrator to provision two types of storage: primary storage and secondary storage. Primary storage is configured at the cluster level and is intended to store the disk volumes of all the virtual machines (VMs) in the associated cluster. Secondary storage is typically NFS or object storage configured at the zone level (multiple clusters).



SolidFire's integration point with CloudStack, as depicted in the graphic above, is as a shared primary storage pool. In order to fully leverage SolidFire's QoS architecture within CloudStack today, an administrator must dedicate a single SolidFire volume to a single root or data disk via API calls. In the near future, with the 4.2 release of CloudStack, a new storage plug-in framework will enable this same capability to be accessed natively through CloudStack.

Committed to CloudStack

SolidFire has dedicated resources that drive real contributions to the CloudStack community. We strive to deliver the industry's most comprehensive storage integration for CloudStack. SolidFire has already validated multi-hypervisor support within CloudStack while continually pushing to expand the supported use cases for the combined solution. Going forward, we are focused on driving continued improvements into the CloudStack storage architecture to ensure it can exploit the most advanced, next-generation storage functionality.

Multi-hypervisor support

- Xen / XenServer
- VMware
- KVM



Citrix Ready Cloud Verified

Citrix remains the largest contributor to the developer community. Citrix's CloudPlatform is the first commercially supported cloud orchestration system based on Apache CloudStack. As a Citrix Ready Cloud Verified partner, SolidFire's customers can be confident

that the integration between CloudPlatform and SolidFire has been properly testing and validated. In fact, Citrix's CloudPlatform Showcase Cloud is Fueled by SolidFire.

What does this mean for you?

Apache CloudStack, Citrix Cloud Platform, and SolidFire are dynamic and rapidly evolving platforms that will continue to enhance the ability to provision, manage, and automate storage resources in a cloud infrastructure. SolidFire is committed to continually advancing storage features in the CloudStack project to ensure users can have native access to advanced storage functionality required to host mission-critical applications in their cloud infrastructure.

Use cases

- CRM / ERP
- Oracle / SQL databases
- Desktop services
- Messaging
- Collaboration
- Test and development
- Converged Infrastructure
- Data Mining