

CloudPlatform

Simplifying cloud orchestration and management

Key Benefits

Speed

- Engineered as an integrated offering, organizations can quickly setup and run cloud infrastructure to gain immediate benefits

Agility

- Be able to take advantage of fast changing windows of opportunities by easily reconfiguring resources

Enterprise-grade

- Multi-vendor support across compute, network and storage resources enables inclusion of existing and future IT investments

Simplicity

- Provision and orchestrate IT resources in support of desktop, traditional enterprise and cloud-native workloads without the complexity of rigid IT systems

Operational efficiency

- Automate IT operations and reallocate resources quickly to improve service delivery

The global pace of innovation has accelerated and organizations are looking to surpass competitors through flexible and efficient use of IT resources. Powered by Apache CloudStack, CloudPlatform enables IT organizations to quickly setup and operate cloud infrastructure that provides immediate benefits to the business including faster service delivery. The automation of repeatable tasks, technology choice, and self-service are just a few of the ways CloudPlatform helps transform IT resources without compromising traditional enterprise-class capabilities.

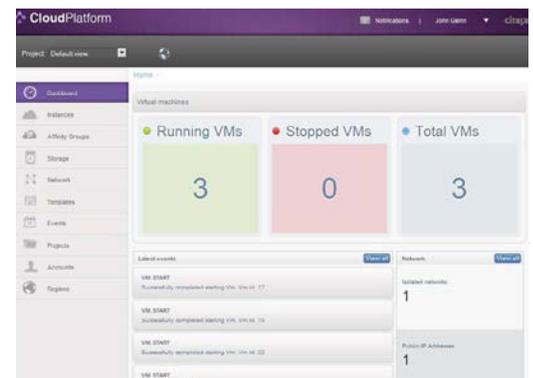
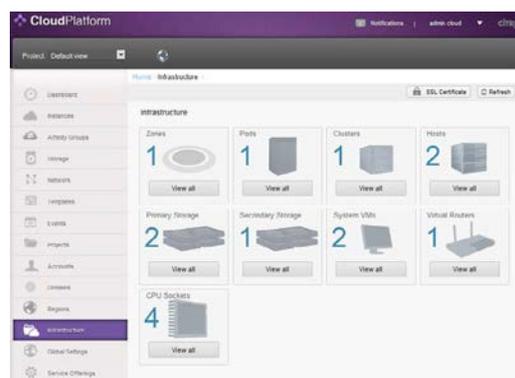
What's new?

Simplified XenDesktop and XenApp deployment with direct upload of volumes and templates.

New granular storage options enable further administrator control and configuration flexibility.

Reduced complexity when managing large deployments running VMware vSphere and virtual network switches with support for vSphere Distributed Switch.

New Baremetal deployment option for Advanced Networking topologies delivers high performance and is well suited for multi-tenant environments.



| Feature | Description |
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| Enterprise-grade | |
| Application-centric isolation | Gain fine-grained control of the layers of applications by implementing advanced network isolation, port filtering and security groups to provide tenant isolation. Address country-specific use cases where critical data must reside in regional databases by making it accessible only from select, restricted web servers. |
| Tenant-based resource dedication | Give tenants the benefits and security of private infrastructure by dedicating resources without having to provide the equivalent of an entire datacenter. |
| Tiered services | Configure different service levels or tier service models by tagging compute or storage resources. |
| Advanced cloud networking | Create complex network topologies to support different types of application workloads. Leverage default network offerings right out of the box, or simply create multiple custom network offerings to differentiate classes of service, all on a single, multi-tenant, physical network. |
| Virtual Private Cloud (VPC) | Give enterprise applications the same level of enterprise-grade security as a traditional datacenter with a VPC. A VPC is a logically isolated part of CloudPlatform that can have its own admin defined network topology resembling a traditional physical network. |
| Site-to-site Virtual Private Network (VPN) and remote access VPN | CloudPlatform delivers site-to-site VPN to connect two virtual private clouds and remote access through a VPN client into the VPC. |
| Advanced platform resilience | CloudPlatform monitors its own network services and restarts automatically on failure while delivering the best SLAs for all applications. Two-way replication between the management databases helps ensure high availability. |
| On-demand virtual datacenter hosting | Scale beyond 40,000 hosts per region with multiple regions running in production public and private clouds. Provide users with virtually unlimited amount of computing resources – on demand as required and billed by actual usage. |
| Accelerite Insight Services (Tools as a Service) | Provides visibility into CloudPlatform including the environment, configuration, resource counts, upgrade history and other diagnostics. CloudPlatform provides a tool to generate a file bundle that upload to the Accelerite Insight Services (CIS) site. |
| Usage metering | Provide users real-time visibility, produce historical usage reports, and create billing invoices by integrating with metering data generated by the CloudPlatform Usage Engine. |
| Workload and resource agnostic | |
| Traditional enterprise workloads | Orchestrate all your workloads regardless of type including scale-up traditional enterprise workloads such as ERP/CRM/RDBMS. |
| Cloud-native workloads | Run cloud-native scale-out workloads such as social, mobile and big data apps. |
| Desktop workloads | Provide intuitive user access to various standardized desktop configurations on demand, from anywhere. Deploy desktop workloads with direct upload of volumes and templates. |
| Graphics-intensive workloads | Available in conjunction with XenServer, Administrators can deliver a range of graphics-rich experiences to single or multiple users depending for need with GPU acceleration. |
| Hypervisor agnostic | Support for commercial hypervisors including XenServer, VMware vSphere, Microsoft Hyper-V, KVM, as well as Baremetal. |
| Dynamic Support for new guest operating systems | As supported hypervisor vendors add updated guest operating systems, customers will be able to request that Accelerite add support for them without having to wait for an updated CloudPlatform release. |
| Advanced networking in baremetal | Deliver greater processing power and faster input/output operations per second now available for advanced networks where multiple VLANs segregate the network enabling multiple unique clients. |
| Linux Containers (LXC) | This experimental feature provides a first look at container deployment technology providing high density per host and fast startup and shutdown. |

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| Storage agnostic | Orchestrates over block, file and object storage irrespective of the storage technologies and protocols underneath. |
| Network and network services | CloudPlatform allows users to choose the type of network architecture that best fits their needs. Networks available out-of-box include the Basic Network, a flat L3 network or an advanced network which could be based on VLANs or SDNs. CloudPlatform also comes with a built-in virtual router which can provide all of the network services, or customers can choose to use DHCP / DNS services from an external vendor. |
| Customization and scale of compute offerings | Increase quality of service by allowing users to specify compute parameters including CPU speed, number of CPUs and memory, and dynamically scale up CPU and RAM for running VMs. |

Clouds that scale

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| Object storage | Improve application availability by enabling cloud-native applications to leverage S3-compatible distributed object storage in a region. |
| Regions | Gain higher application availability by deploying services across multiple availability zones called regions. |
| Simplified cloud management | Gain efficiency by centralizing the management of tens of thousands of geographically distributed servers from a single web-based console implemented on top of the CloudStack API. |
| Advanced cloud networking | Cloud providers can deliver advanced cloud networking configurations and Network-as-a-Service (out of the box) that includes portable IP, advanced load balancing with GSLB and more granular control of networking resources such as a built-in router that provides network services such as DHCP, NAT, load balancing, FirewallVPN and port forwarding. |
| On-demand, automatic elasticity | CloudPlatform along with NetScaler provides AutoScale technology that automatically expands and contracts the cloud resource according to application demands. |
| Cloud services and business management | Enable additional functionalities such as account management, self-service provisioning, billing/charge-back and metering, and CRM and support ticketing through seamless integration with CloudPortal Business Manager. |

Open, Flexible and Extensible by Design

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| Open source and community led | CloudPlatform's code base has been merged with Apache Cloudstack, the most active community-led project in the Apache Software Foundation. |
| Growing ecosystem of external providers | Seamlessly deliver services through the plug-in framework to take advantage of the latest innovations from Accellerite and its partner ecosystem. |
| Support for the most widely used virtualization platforms | Choose from a broad selection of commercially supported virtualization platforms for deploying desktop, enterprise and/or cloud-native application workloads. CloudPlatform supports XenServer, VMware vSphere, Microsoft Server 2012 R2 with Hyper-V role and KVM. |
| Support for the most widely used storage technologies and protocols | Seamlessly orchestrate block, file and object storage irrespective of the underlying storage technologies and protocols. |
| Industry-standard APIs | Compatible with Amazon Web Services (AWS) EC2 and S3 APIs. |

Platform Features

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| Secure multi-tenancy | CloudPlatform infrastructure management technologies provide a secure multitenant cloud environment to be built on shared datacenter hardware. Customers have the choice of building the cloud on commodity or enterprise-grade server, storage, and networking equipment. |
| Secure cloud deployment | Ensures that all memory, CPU, network, and storage resources are both available and isolated from one user account to another within the cloud. |

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| Storage maintenance | CloudPlatform facilitates periodic storage maintenance by allowing administrators to gracefully shutdown all guest VMs with a single click. Once maintenance has been completed, all guest VMs tied to that storage server are automatically restarted. |
| Guest password management | Users can further enhance their guest OS templates to include CloudPlatform custom random password feature that will automatically generate a unique password upon the creation of a VM. This will allow your customers to securely login and change their password. Both Windows and Linux based OS platforms are currently supported. |

Accelerite offers a family of products in support of cloud computing. Be sure to explore these complimentary offerings:

- XenServer: an industry and value leading virtualization platform for managing cloud, server and desktop virtual infrastructures.
- NetScaler: the world's most advanced application delivery controller for mobile and web is deployed in thousands of networks around the globe to optimize, secure and control the delivery of all enterprise and cloud services, and to maximize the end user experience for all users including mobile clients.
- CloudBridge: connects and accelerates applications, optimizes bandwidth utilization across third-party public cloud and private networks, offers a platform for cloud-enabling third-party applications, and provides visibility into application performance to optimize the user experience.



About Accelerite

Accelerite pioneers next-generation IT infrastructure technologies that enable companies around the world to maximize business uptime, optimize performance, and easily manage IT assets. Businesses of all sizes and complexity, from MSPs to enterprises, rely on Accelerite for scalable, fully-integrated cloud and on-premise solutions. Accelerite is the products business of Persistent Systems (BSE & NSE: PERSISTENT), a global leader in software product development and technology services, with over 7,500 team members worldwide.

For more information, please visit accelerite.com or contact sales at 1-800-787-9540 in the US. For all sales question please email us at cloudplatformsales@accelerite.com, for all general partner questions (not deal registration) please email us at cloudplatformpartners@accelerite.com