TCloud Computing

TCloud Computing Elaster

Build a Cost Effective IT Service Operation

Elaster Overview

Establishing a cost effective IT service operation has always been the desire of most IT organizations. Your IT team is expected to reduce spending while increasing productivity and agility to respond to ever-changing business needs. Cost savings and resource consolidation remain top on the priority list for IT managers to demonstrate optimized budget management to corporate executives.

TCloud Computing Elaster is the best-of-breed, cloud enablement software platform that sets a new market standard for consolidating resources and optimizing the delivery of computing services for your IT organization. With Elaster, you can more rapidly establish an efficient IT infrastructure platform to elastically provision computing and storage resources with greater scalability and lower total cost of ownership.

TCloud Computing Elaster provides multiple layers of benefits

Helps you consolidate and align IT investments

Elaster provides a management framework to consolidate your currently siloed and distributed computing and storage resources, so that you can better align your company-wide IT resources to eliminate inefficient provisioning and increase utilization of your IT infrastructure investments. With Elaster, you can dynamically manage and allocate a pool of shared resources from a single console, and it can be operated on commodity server hardware — enabling higher resource utilization.

Provides a new IT service delivery model that responds to business needs

Elaster enables your IT team to build a new IT service delivery model – more capable of responding to the changing business requirements as compared to traditional delivery methods. The cloud-based delivery model gives you greater flexibility in technology selection and pricing structure without proprietary vendor lock-in, or expensive and rigid licensing agreements. Your IT infrastructure will be brought to a new dimension as IT usage is metered so you can better track and forecast future IT behavior patterns. Elaster also enables more innovations to be brought into your organization as you are no longer bound by static licensing agreements of proprietary technologies.

With Elaster, you gain better transparency of actual IT usage by different business units as well as measurement of resource utilization and patterns, and capacity forecasts become much easier for IT budgeting.

About TCloud Computing

TCloud Computing provides cloud computing solutions for infrastructure-as-a-service (IaaS) and platform-as-a-service (PaaS) cloud platforms. TCloud Computing is the trusted, strategic partner of choice to help take your organization to the next level through business evolution only made possible with today's cloud computing innovations. TCloud Computing uniquely collaborates with you to provide seamless business and operation support systems integration that will empower your organization with the most optimized and competitive cloud computing infrastructure. For more information, visit www.tcloudcomputing.com

Key Features

Elastic Resource Provisioning
Elaster can automatically scale in and out computing and storage resources based on workload distribution, and IT resources are elastically provisioned and retrieved as needed and metered based on usage. With Elaster you can achieve a cost efficient IT operational model by maintaining a fair level of resources for workloads during peaks and valleys without over-provisioning servers and storage hardware.

Optimize Resource Utilization
Elaster delivers resource optimization and cost savings by transforming your hardware assets into virtualized, common resources and services – enabling consolidation of individual and distributed, low utilization machines into a pool of infrastructure resources that greatly maximizes hardware utilization capacity.

Resource Lifecycle Management
Elaster provides a streamlined service delivery process to manage your IT resources throughout the provisioning lifecycle. Managing storage and virtual machines, as well as multi-vendor hypervisors from one single platform, reduces administrative overhead – especially for large number of systems. You can also manage cross-data center clouds in different locations and dispatch resources to ensure corporate-wide standards and IT compliancy are being met.

Automate IT Service Operation
Elaster provides automated resource deployment and provisioning with efficiency, flexibility and improved productivity. Users can apply for computing and storage capacity via an end-to-end self-service process, which significantly reduces the IT operational effort required to support provisioning and greatly enhances employee productivity with an on-demand resource infrastructure.

Scalability and High Availability
Elaster provides a highly scalable cloud-based storage and computing service with reliability and high availability for data, virtual machines and physical servers. Elaster ensures a high level of availability and robust performance for up to petabyte sized storage systems through its cloud computing architecture based on Distributed File System (DFS).

Secure Multi-tenant Environment
Elaster enables your organization to build a shared IT service infrastructure for internal and external customers that allows different customers to maintain their own secure and exclusive virtual computing and storage environment. Unauthorized access to each tenant's resources is prevented to ensure high level of security and control.

Ease of Integration with Open Platform
Elaster is an open platform providing standard web service APIs that provides easy integration with your existing applications and framework. The Elaster Open RESTful APIs deliver seamless interoperability and high flexibility for software development and implementation of new services.

Secure cloud
Elaster provides VM network segmentation and isolation to prevent unauthorized access by other VMs and ensures your cloud infrastructure is secure. The Trend Micro Deep Security solution also provides advanced protection for systems in the dynamic data center from virtual desktops to physical, virtual and cloud servers. Deep Security protects confidential data and critical applications to prevent data breaches and ensures business continuity for your cloud infrastructure.

System Recommendation

	CPU	Memory	HD	NIC
Minimal	64bit supported	4GB	1x50GB	2 x (10/100)
Recommend	Dual QC with 64bit supported	48GB	2x2TB	2 x (1G/10G)
Note	Intel -VT/AMD -V	VM capability	SAS/SATA	Function / Production

Key Benefits

- **IT Efficiency.** Maximize resource utilization and existing hardware investment to achieve cost savings and IT efficiency.
- **Low Total Cost of Ownership.** Eliminate additional storage hardware purchases and leverage commodity hardware to realize low TCO.
- **Business Agility.** Deliver greater business agility to quickly adjust your customer offerings and resource allocation based on the ever-changing market demands.
- **Ecosystem Growth.** Enable service providers to broaden and build out service offerings and ecosystems to create business growth and new revenue streams.
- **Gain a Trusted Advisor.** With TCloud Computing expert consulting services our customers gain a strategic, collaborative partner to help them navigate the path to cloud computing.

TCloud Computing