

Private Cloud Virtualization

Why Private Cloud?

- Increased processing density
- Inherited high availability
- Maintained Security Perimeters

Why the Need for a Service Provider?

- Selection of virtualization platforms
- Selection of storage platforms
- Selection of licensing and features
- Capacity and expansion planning
- Clustering architecture & configuration

Digital Edge's Benefits

- Increased processing density
- High availability
- Scalability-unlimited growth
- 99.999% uptime
- 24/7/365 certified technical support
- Flexible solutions with custom built options

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Corporate businesses face critical challenges in the IT space; data growth, resource constraints, high availability, and processing utilization. As companies expand IT departments' core focus is keeping the business operable rather than providing the business with tools to expand. Keeping up with rapid expansion is a full-time commitment that requires environmental provisioning of all hardware and software that is business critical. Due to the large and necessary requirements for building-up expanded infrastructures, many have found a flexible, cost-effective, and secure solution by utilizing clouds.

Barrier Adoption

Within the industry, large discussions around public clouds have soared, depicting that companies looking to consolidate and save should move into a fully virtual environment. And with the large rise in data growth, companies are looking for solutions against the constant increases in compliance regulation, space, utilization, profitability, and support for their expanding infrastructures. However, while public cloud offerings look very attractive due to its ability to provide processing power on demand, public offerings have serious limitations that are preventing organizations from wide adoption.

With public clouds, companies often encounter issues as a result of limited resources offered by the cloud in which they currently reside. Scalability becomes difficult and new projects, campaigns, and applications require a boost in the processing density of the environment. With these limitations such as security and flat architecture, companies are becoming more and more concerned and depending on their technical needs are prohibiting cloud altogether.

In these cases, the option to create a private cloud is deemed the best solution. Private clouds provide companies with the ability to take advantage of the benefits of cloud offerings without the negative impacts associated with their business models. While remaining within their own security perimeters, companies continue to operate securely, focusing on their infrastructure security, while lowering their footprint. Additionally, companies can scale up or down whenever the need arises. The ability to control your IT environment and resources proves to be a large benefit and for companies that are growing more rapidly than anticipated, private clouds can efficiently transform your data storage quickly to keep up with demand.

Why Private Cloud? There are two very powerful benefits to cloud architectures that all organizations should benefit from:

1

Increased processing density

Per Gartner statistics, 1 out of 10 servers are not fully utilized and the average server load is far below 40%. In many cases, some servers within data centers spin disks without any workload, increasing heat without justified cause. Giving the ability for multiple virtual servers to share the same hardware, organizations are able to better utilize processing power more efficiently, yielding massive savings by lower power consumption and decreasing hardware resources and space.

2

Inherited high availability

In the past, high availability through redundancy and application clustering became a financial burden. With cloud, virtual servers are grouped; therefore act as alternatives to applications, creating high availability within all cloud clusters. By doing so, each application utilized inherits high availability without additional investment in clustering, hardware or licensing.

The Intelligence Behind the Technology

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Private Cloud Virtualization

Digital Edge Virtualization Seeds

- Small Business/ Middle Tier/Advanced/Enterprise bundles
- Customized build-outs
- Personalized packages for mixed environments

Why the Need for a Service Provider?

Corporate cloud implementations can be challenging and costly if done incorrectly. The following are the most common causes for mistakes, losses, delays and failures regarding virtualization:

- Selection of virtualization platforms
- Selection of storage platforms
- Selection of licensing and features
- Capacity and expansion planning
- Clustering architecture and configuration

In order to avoid these obstacles; Digital Edge offers turnkey packages, enabling companies to build virtualization structures while creating smooth migration patterns toward private cloud benefits.

Our Benefits

Digital Edge offers the ability to grow to scale or customize your virtualization project based on individual business objectives.

Our Benefits include:

- Increased processing density
- High availability
- Scalability-unlimited growth
- 99.999% uptime
- 24/7/365 certified technical support
- Flexible solutions with custom built options

In addition, Digital Edge is able to provide small virtual servers that can be used for temporary or permanent environments for your personal cloud.

P A C K A G E S

	Small Business	Middle Tier	Advanced	Enterprise
High availability	Yes	Yes	Yes	Yes
Number of virtual instances	8 (4 in high availability)	24 (16 in HA)	72 (48 in HA)	Unlimited
Servers	2	3	3	3
Storage Attachment	iSCSI	iSCSI	Fiber Channel	Fiber Channel / iSCSI
Storage Size Limit	10 T	7.2 TB SAS / 24TB SATA	30 T	120 T
Disk type	SAS or SATA	SAS & SATA	SAS & SATA	SAS/SATA or SSD

Each bundle comes with a Vmware/Vsphere, HyperV/Windows 2008R2, or Xen cluster configured for High Availability

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