Lenovo Configuration

for Microsoft Edge Cloud

Bringing Affordable Hybrid Cloud to SMBs and ROBOs

Deploy an on Premise Hybrid Cloud that Runs Workloads Locally

The Lenovo Configuration for Microsoft Edge Cloud is ideal for businesses that can benefit from deploying Microsoft Hyper-V supported workloads within a private cloud environment for remote offices and branch offices. This highly flexible configuration enables remote cloud and application management which is ideal for small offices, retail locations and government offices. This solution is designed for companies with multiple sites looking for a managed cloud based solution.

This Edge Cloud solution server runs on a System x3650 M5 server and can remain independently operational, thus keeping the remote site running even if it loses a connection to the main data center or the Internet. If there is a loss of communications with a remote cloud, local applications, file, print, point of sale, domain services and other locally hosted workloads remain available.

Burst on Demand to Azure Public Cloud or Azure Stack Private Cloud

This small footprint solution enables SMBs and ROBOs to economically deploy an on premise hybrid cloud to run workloads locally, store data locally, and burst on demand to the Azure public cloud or an Azure Stack private cloud. This architecture enables cloud backups for disaster recovery. The common hardware, designed for remote management, simplifies the overall management infrastructure. When the use case makes sense, the Edge Cloud server can take advantage of existing Azure connected services such as Office 365 for email and other Office applications. This solution deployed at remote edge locations can start small as a single server and scale out as a business grows.

The Edge Cloud architecture includes data center and remote site components. At the data center, the core components of Windows Azure Pack are hosted on a virtual infrastructure, which is managed by Microsoft System Center Virtual Machine Manager. From the data center, System Center is used to manage admin and tenant portals as well as remote servers and remote sites. This yields the following key customer benefits:

- Reduce hardware acquisition & maintenance costs
- Reduce cost of on-site IT staff by enabling management of many sites from a central location
- Scaled IT resources on demand
- Standardized on premise hardware across multiple locations

Highlights

- Simplify management of remote workloads with easy deployment and automated discovery
- Obtain the ability to scale IT on demand by extending cloud services to remote offices
- Standardize on premise hardware across multiple locations with pre-validated configurations

Lenovo System X data center products for high capacity, high performance cloud platforms

Lenovo System x3650 M5 server

Architectural Overview

At the data center side, the solution is hosted on Microsoft's System Center Virtual Machine Manager providing infrastructure as a service. Solution management is provided by Windows Azure Pack which consists of a management portal and tenant portal which seamlessly integrate with Microsoft System Center. The management portal is for overall environment administration by a centralized IT team.

Windows Azure Pack Overview

Azure Pack provides a set of Azure technologies for private or on premise cloud environments all provided with Windows Server. The solution can expand to integrate with Azure public cloud components as well as to create either a private cloud or a hybrid cloud based on business demands.

Management is enabled by two portals. An administrative portal is available for IT administrators and a tenant self-service portal is available for divisions or separate companies. Both management platforms are deployed on the same centralized infrastructure as the Microsoft System Center components. One of the benefits of Azure Pack is the ability it provides to easily deploy and manage virtual machines both locally in the data center and at remote sites. Azure pack also supports SQL databases as a service (DBaaS) and web application hosting or platform as a service (PaaS).

Why Lenovo

Lenovo is a leading provider of x86 servers for the data center. Featuring rack, tower, blade, dense and converged systems, the Lenovo server portfolio provides excellent performance, reliability and security. Lenovo also offers a full range of networking, storage, software, solutions, and comprehensive services supporting business needs throughout the IT lifecycle. With options for planning, deployment, and support, Lenovo offers expertise and services needed to deliver better service-level agreements and generate greater end-user satisfaction.

For More Information

To learn more about the Lenovo Configuration for Microsoft Edge Cloud, contact your Lenovo Business Partner or visit: http://www3.lenovo.com/us/en/data-center/solutions/c/solutions

CRN: CLDMS01XX72 06/2017