

Colocation, Hybrid Cloud & Infrastructure As A Service

IT managers today need to deal with an ever-increasing set of business demands. High speed data networks have made it possible to host your data anywhere without losing a step.

Cloud Grid Networks offers a platform that allows you flexible solutions to accomplish what you need, when you need it. Increase scalability while eliminating wasted dollars.



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Solve multiple problems with one powerful solution

Leveraging the Cloud Grid datacenter you can quickly overcome many technology roadblocks that can help turn challenges into opportunities. Eliminate the worry of space constraints, hardware refresh cycles, slow bandwidth and other challenges that affect most underfunded IT departments today. We have flexible options that allow you to accomplish your business goals with ease, utilizing standards-based solutions provided by VmWare, Cisco, EMC and Microsoft.

Reliable Datacenter Colocation Solutions

Built with a Purpose

Cloud Grid is located at Coresite (NYSE: COR) a publicly traded company with data centers located in 8 North American markets. The Miami Datacenter was built from the ground up to be a datacenter. It is built to withstand Category 5 hurricanes, with diverse utility feeds, redundant power generators on standby and onsite fuel to cover extended outages. Coresite is secure with a SSAE 16 Type 2 certificate with 24/7 onsite security, requiring key card & biometric access. Coresite is staffed 24/7 with BICSI and CFOT personnel and state-of-the-art monitoring of all equipment.



Coresite is located at:
2115 NW 22nd St,
Miami, FL 33142

How can a datacenter protect your company's data?

When company executives start talking about data continuity they often recall that it has been over 20 years since a major Hurricane hit South Florida. However, a datacenter can protect against many more common threats which may affect companies today.

Physical security protects against theft of important and expensive equipment

Servers, SANs, Switches and Routers are expensive pieces of equipment. Although many pieces of equipment are under repair contracts, a theft of an important piece of equipment can render a company helpless until a replacement part can be sourced, delivered and installed. A datacenter has multiple layers of physical security. Besides a guard that is always on duty 24/7/365, the datacenter has card access, biometric (fingerprint access), security at the cage or rack level, video surveillance, and security protocols which make theft next

A datacenter protects your data from the effects of negative environmental issues, such as heat, water, and humidity.

Although some equipment is built to withstand less than optimal environments, heat, water and humidity can cause more frequent failure of hard drives and other equipment. Failed drives can cause data loss or data corruption if recovery isn't addressed quickly enough. A datacenter can eliminate these threats completely. Redundant AC units and 24/7 monitoring measure cooling loads throughout the datacenter. So, you can be sure that your server is cool even at 2 am. Datacenters use life safety equipment that can put out fires without the need for water-based sprinkler systems. Dehumidifiers protect the equipment from heavy moisture content in the piped in cool air.



Power is constantly regulated at a Datacenter

No server can run without power. In fact, of all the factors affecting server performance, power is the one thing that cannot be overlooked. Most building power grids are only as good as their own infrastructure. Even class A buildings do not have the same expectations and requirements that a datacenter might have. IT managers have worked around this problem by purchasing expensive UPS equipment in order to survive short building outages.

However, what if a building's aging power infrastructure goes on neglected for too long? An outage can affect the entire building, causing downtime for your whole organization for days. Most buildings are also at the mercy of the local power company. They don't have emergency generators with enough power to run your company's server equipment. And they rarely protect against power spikes that can damage server room equipment.

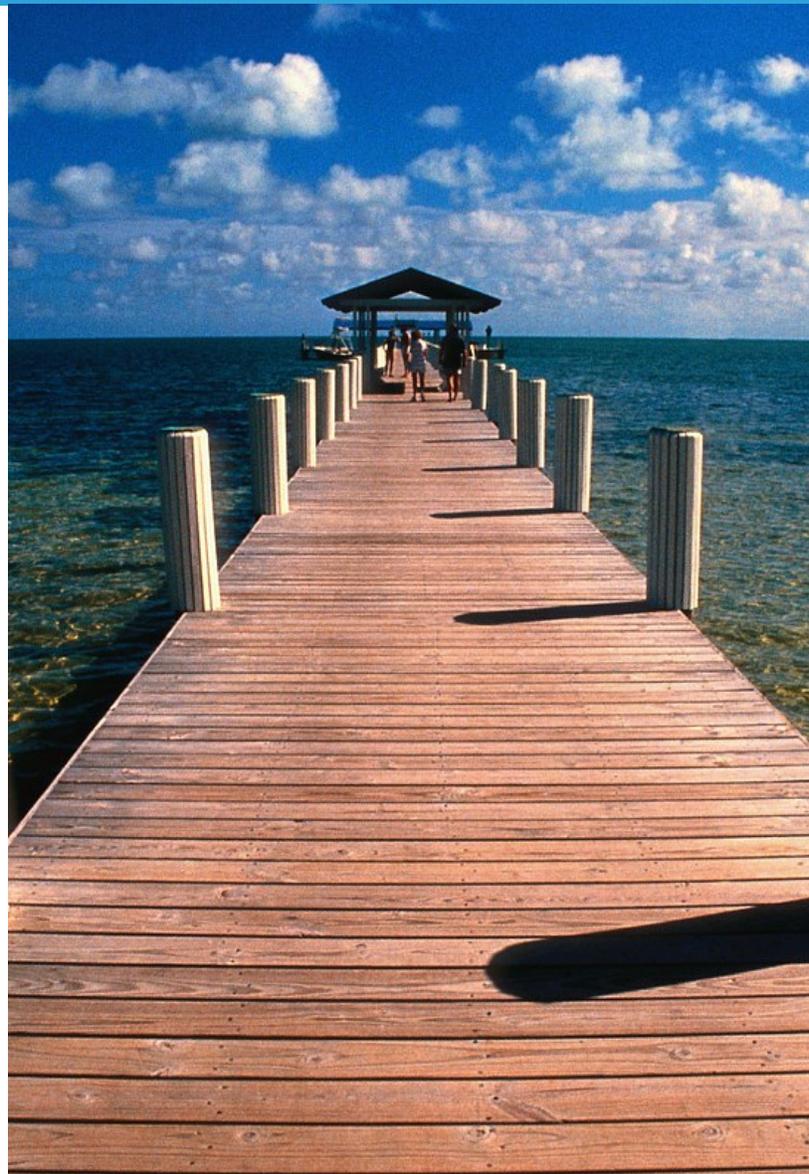
Datacenters can resolve these problems effectively. One of the datacenter's primary purposes is to provide clean, always available power. Datacenters generally have multiple paths to get local power. However they are prepared if these paths are cut, and the datacenter needs to go on backup power. Unlike company buildings, a datacenter has redundant backup generators that kick in if the monitoring equipment senses any lapse in local power. In addition, datacenters purify power as it enters the building, protecting server equipment from dirty power, power surges and power spikes. The building is a hardened facility with no windows and exceptional grounding to protect against direct lightning strikes as well.



Leverage the Power of Infrastructure as a Service

You probably already use
IAAS today (AKA Cloud)

Cloud Grid gets its name from two sources. First the CLOUD. Almost everyone uses cloud resources such as Facebook, Google, Youtube, and many more sites we depend on both personally and professionally. It is just that now businesses are waking up to the reality that IAAS can allow them to leverage better resources for less money without giving up security and control of their assets. IAAS is simply a GRID of connected servers located at datacenters with extensive resources that can be leveraged at a moment's notice giving IT nimble solutions at their fingertips.



How can Infrastructure as a Service help my company?

IAAS is growing in popularity so quickly that companies like Amazon and Microsoft have quickly realized that IAAS will be where servers will be hosted in the near future. It is expected that the old model of companies hosting their own infrastructure, will be in a steep downtrend over the next decade.



IAAS allows companies to leverage only what they need, when they need it, while eliminating waste.

Many companies waste tons of money in technology by either purchasing more equipment or less equipment than they need. IT managers are supposed to have a crystal ball and anticipate the needs of a company 5 years out, when the next expected hardware refresh cycle will occur. Some managers overbuy equipment that will remain underutilized for the term. In fact most servers have very low load rates, with processors and memory usage rarely getting up to 50% utilization. Some managers are unable to anticipate growth over the term and under buy resources, thus causing systems to be replaced in the middle of the cycle.

With IAAS, IT managers can allocate resources quickly and easily from the virtual console. They can create servers quickly, without needing to order new equipment. They can assign more memory, hard disk space, and even move servers to higher Tiered Storage options such as solid state drives, if they need the additional performance.

IAAS Simplifies Licensing While Increasing Opportunities for Savings

The IAAS model allows for flexible licensing. If you add 20 new people, you can add 20 licenses for the few months they will be working. After they leave, you regain the cost savings since you no longer need to pay for those licenses going forward.

IT can focus on the business rather than hardware

IT never has to worry about hardware refreshes again. The IAAS model allows Cloud Grid to focus on buying high quality equipment and utilizing VmWare features such as vMotion and Storage vMotion to move data from one host to another or one Storage Area Network to a new one, without causing performance hits, or downtime to the users.

IAAS provides better backup recovery options

Cloud Grid utilizes Veeam for backup of all its nodes to disk-based storage, on a 10 gig backbone. Some companies might still be running with old tape-based solutions which are slow to restore, and problematic.

There are no upfront investment or maintenance costs. Reduces TCO.

Companies with limited capital to invest in hardware or software can keep a steady and predictable monthly expense without huge spikes every few years necessary for hardware refreshes.

Total Cost of Ownership is reduced dramatically since Capex expenses are transferred to Operational expenses. You only pay what you need for right now. You don't have to pay for fixed costs (people, servers, storage, power) if you are not using them.

The Cloud Grid IAAS is flexible to fit the needs of each unique client.

Unlike other big box cloud providers, the Cloud Grid solution is tailor made to fit the needs of the companies we host. Some companies might want specific configurations, additional security appliances, redundant offsite backup or replication solutions. We can work with each client to find solutions to their problems. Rather than getting an unknown level 1 tech at some big box brand someplace in India, all of our technicians are local and we can provide on-site service to assist with the whole process end to end.

Hybrid Cloud Offer Clients Infinite Customizations

The hybrid cloud is best of both worlds computing.

Several of our clients have their own equipment and they want to leverage both this gear along with our own IAAS solutions. Perhaps they want to keep most of their servers on their existing hardware, but they would like their mail system to run on faster solid state equipment on the IAAS equipment. No problem. Hybrid cloud clients can bring their own gear into the datacenter or leave it at their location. They can leverage our infrastructure for backup, replication, to generate a test development server, or to leverage more disk space as needed.



What are the benefits of the hybrid cloud?



The idea behind hybrid cloud is flexibility. Some companies or IT managers want to have some of their data hosted on their own equipment. It can be hosted at their office or in one of our racks at Coresite. Once the high speed data link connects our infrastructure with you office, you can leverage all of our resources.

Leverage Grid for Backup, Replication or Recovery

One huge reason to have access to the Cloud Grid infrastructure is to leverage several backup and recovery options. In one client, we have set up a replication job to our infrastructure. In the case of an emergency we can turn up the replication target as a viable server.

For another client, they have overextended the space of their backup unit. With Cloud Grid they just mount up a new backup volume right inside their backup server. Now, they never have to worry about running out of space on their backup target.

Cloud Grid also focuses on recovery and recovery testing. Few people realize that one of the drawbacks of having too little resources on their servers is the fact that in a restore situation you often need double the server space in order to restore the backup to. Cloud Grid servers have over 100 Terabytes of disk space to leverage for backup restores.

In fact, one powerful way of managing backups is to test backups from time to time. Technology professionals know that you are only as good as your last tested backup. Why guess about the success of your backup? Why not do a full restore to the Cloud Grid infrastructure and actually test to see if the server and/or data is intact and fully present on the backup copy.

Redundant internet lines, low cost SIP trunks and Unlimited Long Distance

Cloud Grid has its own internet circuits. We are essentially our own carrier, not unlike an AT&T. This means we can provide an extensive amount of services on demand. If your phone system goes down, we can route calls through our onsite Cisco Call manager system. If you need failover SIP trunks in case you have maxed out your own, we have it here. We also have redundant internet pipes, and unlimited local and long distance on our telephony system.

Need Storage Space? No problem

Many companies don't anticipate the amount of data volume growth. Sometimes this is due to unforeseen acquisitions, or electronic discovery productions. Sometimes, it is hard to tell the future needs for a company. Cloud Grid has a solution. We can create a LUN and mount it into your existing infrastructure as needed. If you need more space, we can add it for you in moments. It is really that easy. You don't have to worry about throwing out your main server and replacing it when you hit your space limit. This can save thousands of dollars in integration costs, software costs and hardware costs.

Flexibility of options

The hybrid cloud allows you to combine the power of your own server infrastructure, and still leverage our advanced infrastructure as needed. We have low cost storage options (7200 RPM) that can be leveraged for archival purposes. We have high speed storage solutions (10k, 15k and Enterprise level Solid State Drives) so you can scale up your infrastructure and take the guesswork out of performance. If you feel a need for speed, we have you covered. On the back end we have 10 Gig Cisco Nexus switches and Fiber connections which make sure that nothing slows you down.