

No Time for Down Time



Recovery Cloud

IT interruptions may be inevitable, but data loss and down time don't have to with the Peak 10 Recovery Cloud.

**Continuous data protection,
resulting in less data loss in the
event of a failure**

Rapid recovery times

Fully managed service

**Supports HIPAA- and PCI-governed
environments**

With the Peak 10 Recovery Cloud, you can take advantage of the reduced costs associated with multi-tenancy while accessing the cloud resources needed to restore services and minimize data loss in the event of an application or entire site failure — quickly, securely and regardless of where your production environment is housed.

Peak 10's Disaster Recovery as a Service Solution

Overview

Make the Peak 10 Recovery Cloud an integral part of your disaster recovery plan, and enable faster recovery of your critical IT systems. The Peak 10 Recovery Cloud provides a cost-effective, highly flexible Disaster Recovery as a Service (DRaaS) solution that ensures rapid recovery of mission-critical applications and data. It features continuous data protection (CDP) style replication to minimize data loss should a disaster occur.

Built on leading-edge technologies and combined with Peak 10's expertise in cloud-based disaster recovery, the Peak 10 Recovery Cloud enables you to take advantage of the reduced costs associated with multi-tenancy while accessing the cloud resources to restore services in the event of an application or entire site failure quickly, securely and regardless of where your production environment is housed.

Benefits Include:

- Continuous data protection (CDP) versus scheduled replication happening a few times a day, resulting in less data loss in the event of a failure
- Replication of your VMware cloud servers no matter where they are housed
- Rapid recovery times
- Industry-leading RPO/RTO to meet strict business requirements
- Flexibility to fit most virtual environments without requiring re-architecture
- HIPAA and PCI compliant
- An experienced team of disaster recovery services specialists available 24/7/365 to monitor data replication or to execute testing and actual recovery processes



How It Works

The Recovery Cloud consists of two primary elements: disaster recovery (DR) management and a recovery resource pool of computing power. If the production and DR environments are within Peak 10, the DR management also includes bandwidth for data replication; if one end is on premise with you, either private WAN or VPN connectivity is required.

- **Disaster Recovery Management**

DR management is a managed service that features a software-based replication platform to replicate production systems running on the VMware® vSphere hypervisor. It includes provisioning, process monitoring, testing and unplanned failover support. Production systems can be housed with you, within a Peak 10 environment or at a third-party data center. Peak 10 does not have to manage the production environment in order for you to use this service.

Unlike many replication platforms, the Peak 10 platform is scalable and secure without requiring changes to the existing environment or underlying storage platform. The DR environment can be configured to meet your needs, including multiple IP segments and virtual local area networks (VLANs) in addition to compliancy and regulatory requirements. Peak 10's technologies allow you to securely replicate data into a multi-tenant environment; visibility is restricted so customers can't see other customers' details.

By protecting servers outside of the operating system and application, yet above the storage layer – within the hypervisor itself, Peak 10 is able to provide CDP replication, which ensures data and applications are backed safeguarded up in near real-time, rather than based on a periodic schedule offered by many cloud service providers. Ongoing monitoring and management are also included.

Peak 10's DR approach also reduces total cost of ownership. If replication took place at the OS layer or above, it would necessitate a "live" target system, requiring licensing and management. In addition, replicating at the storage level can be expensive. If an investment was made into any other technology than what Peak 10 uses, it would have to be replaced since there are no standards between vendors.

- **Recovery Resource Pool**

The Peak 10 Recovery Cloud provides maximum scalability by making use of a shared pool of compute and storage resources that you subscribe to in order to run your replicated systems for testing or actual failover purposes. Connected to Peak 10's tiered storage infrastructure and robust core network, these resources are provided based on specific performance, availability and scalability requirements for each customer. Peak 10 manages all aspects of the underlying technology, including maintenance and providing the associated data center services, hypervisor and Windows operating system licenses.

Response and Recovery in Minutes

With the Peak 10 Recovery Cloud, failovers can be initiated within minutes, and you can select the point in time at which a test or failover recovers at the time of execution.

In the event that a declaration is made to failover, Peak 10's 24/7/365 staff is trained to initiate the failover process. Peak 10 can also assist with other aspects of your DR plan including updating public domain name system (DNS) records hosted by Peak 10. In addition, Peak 10 will immediately enable reverse replication to expedite the failback process when desired.

"In the event that a declaration is made to failover, Peak 10's 24/7/365 staff is trained to initiate the failover process"

Inside the Recovery Cloud

The Peak 10 Recovery Cloud is built using industry-leading technologies and configured with security and performance as core tenants. You receive dedicated network(s) including virtual local area networks (VLANs) and Internet Protocol (IP) address space. The management layer of the Recovery Cloud is also audited for adherence to HIPAA and PCI standards.

Subscriptions to the Peak 10 Recovery Cloud are measured in reserved gigabytes of RAM and gigabytes of disk storage as opposed to a complicated array of difficult to estimate metrics.

Sizing the Solution

The resources needed to provide replication to the Peak 10 Recovery Cloud are determined by:

- **Replication Bandwidth**

Bandwidth is included when the source and target environments are Peak 10 managed. The required bandwidth is based on the rate at which new data is being created on the production systems. Peak 10 solution engineers will work with you to determine specific bandwidth requirements. However, a minimum of 5 Mbps is required.

Non-Peak 10 housed cloud environments must replicate over a private wide area network (WAN) circuit, such as a Metro Ethernet or MPLS circuit, or a site-to-site virtual private network (VPN). Replication data is compressed or can take advantage of existing WAN optimization solutions.

- **Storage**

Storage is sized to match the virtual servers' storage footprint at the production site. If the Peak 10 Recovery Cloud is used as the secondary environment, storage is delivered from an enterprise storage array via 8 Gbps fiber connectivity.

- **Computing**

Memory (RAM) is sized to match the replicated virtual server. Central processing unit (CPU) power is included, up to eight virtual CPUs per virtual machine (VM).



More Reasons to Love it

DR Management Scope

Two scheduled failover tests at service inception	99.9% replication platform availability
Two scheduled failover tests per year thereafter	99.999% cloud resource availability
One unplanned failover per year	

DR Management Requirements

VMWare cloud as the source <ul style="list-style-type: none"> • vCenter • vSphere 4.1+
Private cloud resources <ul style="list-style-type: none"> • A VM on each ESX/ESXi host to facilitate replication (1 VPU, 4 GB RAM and a Windows server license) • Virtual replication manager for the environment as a whole (2 VPU, 4 GB RAM and a Windows server license) • Virtual replication application per host (2 VPU, 2 GB RAM, no OS license)
• No resources or overhead when using the Peak 10 cloud
• 5 Mbps of bandwidth between unmanaged production and target
• 15% free space on private source and target data stores

Learn More About Peak 10 Disaster Recovery Solutions.

You can [contact us](#) for a free consultation with a Peak 10 Solution Engineer at (866) 473-2510. Or, use the

[Contact Us form](#) at www.peak10.com

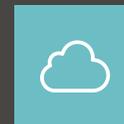
The Recovery Cloud Helped Earn Peak 10 a Position in Gartner's First Ever Disaster Recovery as a Service (DRaaS) Magic Quadrant.

About Peak 10

Peak 10 provides IT infrastructure solutions that ensure the 24/7/365 availability and security of our customers' critical data and applications. Customer-centric and cost-competitive, Peak 10 solutions are designed to scale and adapt to customers' changing business needs, enabling them to increase agility, lower costs, improve performance and focus internal resources on their core competencies — all while maintaining uptime, access and security.



Data Center & Network Services



Cloud Services



Managed Services

