

Recover to Cloud

Cloud based automated recovery solution, powered by Cloud360

SOLUTION HIGHLIGHTS

Reduced Costs

Deploy disaster recovery while activating your application servers in AWS EC2 only as needed for test and failover.

Faster Recovery

The entire recovery process is completely automated using Cloud360 automation policies, thus ensuring faster recovery without any manual intervention

More Reliability

With more automation and ease of use, perform testing more often and ensure that your recovery plan works reliably

Easy to Setup and Scale

AWS EC2 provides compute and storage resources on demand and is very easy to scale.

Predictable Opex

With a pay-as-you-go model of AWS, pay for your EC2 resources only when you use them and avoid upfront Capex for your application servers

Portal Access

Cloud360 console provides you the ability to manage the entire solution by allowing you to configure automation policies, manage your storage and AWS EC2 resources from a single console.

The Challenge

With increasing threats of data loss affecting business, disaster recovery has become a necessary component of organizations' IT plans. Organizations realize that the cost of a minute of downtime maybe even thousands of dollars. To mitigate the impact of business disruption and improve recovery point objectives (RPOs) and recovery time objectives (RTOs), complex IT environment requires state-of-the-art data replication and recovery solutions.

The traditional approaches to Disaster Recovery, such as Dedicated or Shared recovery models are expensive as they require dedicated infrastructure. These traditional approaches are mostly manual with little to no automation, thus resulting in much slower recovery. Also because of so many manual tasks, it is not very easy to perform recovery testing, thus resulting in unreliable recovery.

While the dedicated model can reduce RTO with its preconfigured hardware and software, it does not eliminate all delays. The process is still dependent on receiving a current data image, which involves transporting physical tapes and a data restoration process. This approach is also costly because the hardware sits idle when not being used for disaster recovery.

Shared disaster recovery is designed to be more cost effective, since the off-site backup infrastructure is shared between multiple organizations. However, after a disaster is declared, the hardware, operating system and application software at the recovery site must be configured from the ground up to match the IT site where the disaster has occurred. And this results in poor RTO.

The Solution

The Cloud is essentially a shared infrastructure: a shared set of resources with the infrastructure cost distributed among everyone availing the cloud service. This feature makes cloud the perfect model for disaster recovery.

Cognizant Cloud360, together with NetApp and Amazon Web Services (AWS) offers Recover to Cloud, a solution that delivers the benefits of both cloud and data center virtualization. Recover to Cloud is a cloud based automated recovery solution with managed replication of applications and production data in the cloud. Delivered using NetApp's Private Storage for AWS solution, it allows enterprise customers to leverage the automation and orchestration capabilities of Cloud360, performance and control of private NetApp storage resources with the efficiency and elasticity benefits of the AWS cloud.

Recover to Cloud has multiple benefits over the traditional DR models. The biggest benefit of having a cloud based recovery solution is that it results in reduced costs since the recovery site is in cloud and kept powered off to save on costs. In case of a disaster, application servers in the cloud are powered on. Secondly, the automation results in much faster recovery, resulting in lower RTO. And because of this automation, recovery testing is much easier, hence ensuring that recovery works the way it is expected in case of a disaster.

SOLUTION COMPONENTS

Cloud 360

Provisioning
Monitoring
Automation Policies

NetApp

Products and Technologies

NetApp FAS Series
SnapMirror®
SnapManager®
SnapVault®
OCI
Data ONTAP® Powershell Toolkit
Encryption
vFile®
WFA (Work Flow Automation)

AWS

Products and Technologies

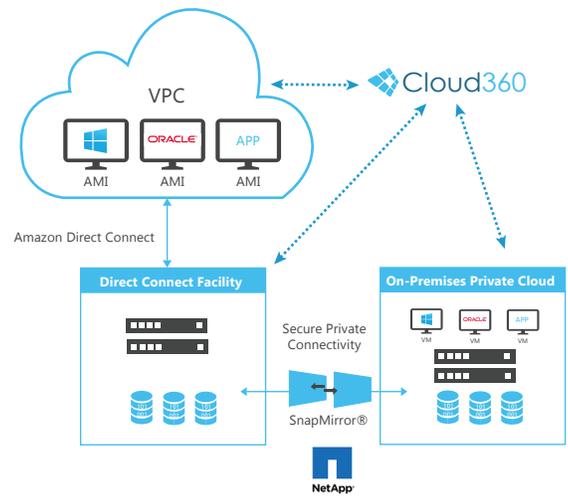
Amazon Elastic Compute Cloud (EC2)
Amazon Simple Storage Service (S3)
Amazon Direct Connect

Third Party Products and Technologies

Direct Connect Colocation Facility
XO Communication Network Services

Solution Details

The service is cloud-based and automated. A copy of the application servers is built in AWS and shut-down to save on operating expenses. Data from on-premise NetApp storage is replicated in NetApp storage in an AWS Direct Connect data center provided by Equinix. This enables you to leverage on-demand cloud services while retaining full control and mobility of your enterprise data. When the disaster is declared, Cloud360 triggers pre-defined automation policies that orchestrate the entire recovery process from bringing up the application servers in AWS, enabling them to access data on the NetApp storage in an AWS Direct Connect data center to making necessary configuration changes so that the recovery is seamless.



Unique Value Propositions

The Cognizant Cloud360 solution delivers flexible, on-demand Recovery capabilities that enable organizations to simplify DR processes and accelerate recovery times.

	COGNIZANT CLOUD360	NETAPP STORAGE	AMAZON WEB SERVICES
Service Definition	Provisions DR resources, monitors the customer's environment, and uses automation policies to activate recovery as needed.	Provides the hardware and comprehensive storage management technologies needed to support a cloud-based DR deployment.	Delivers the compute and storage resources required for a cloud-based DR solution.
Customer Benefits	Delivers rapid, automated, cloud-based DR.	Enables storage resources to be provisioned and monitored from a single console.	Delivers compute resources on demand with a pay-as-you-go model.
Results	Reduced Costs, faster recovery, portal access.	More reliability, minimizes management burden, enables easier SLA Management.	Easy to setup and scale, predictable operating expense.



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