Alibaba Cloud

Hybrid Cloud
Cloud Backup and Recovery

Enabling a secure back up of your IT infrastructure with a minimized latency recovery mechanism

Introduction

The cloud landscape has witnessed great progress over the past decade with cloud computing becoming a vital enabler of innovation, and maturing from being a mere cost saver. The Hybrid Cloud offers customers a tailored approach. It incorporates the advantages of both traditional models, public and private cloud, to provide the agility, elasticity, and cost savings of the public cloud, while preserving the unwavering data security offered by the private cloud.

Background

Hybrid Cloud offers the flexibility to migrate and test applications and data on the public cloud while keeping the preferred infrastructure in a private environment. Organizations can determine which applications are suited to the public cloud and those that require a secure private cloud environment. They can then choose to host data or applications depending upon their specific requirements.

In most traditional environments, data is backed-up and sent off-site at regular intervals, which takes time to restore systems in case of a disruption or disaster. Alibaba Cloud OSS is an ideal destination for backing up data for a quick data restore. Transferring data to and from Alibaba Cloud OSS takes place through the Express Connect network and is accessible from any location. The backup and recovery is performed through a storage gateway to enable low latency for frequently accessed data.
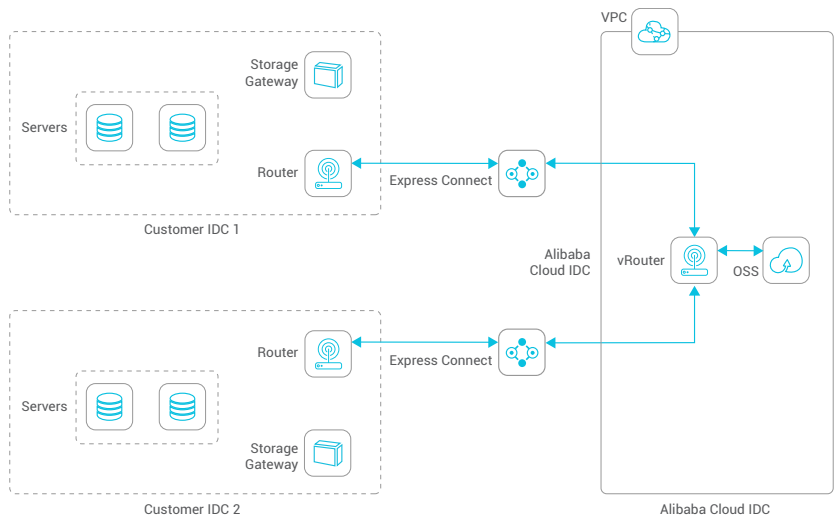
Highlights

- Enhanced security and compliance
- Business continuity and disaster recovery
- Accessible from any location

Benefits

✔ Low latency for frequently accessed data

✔ Seamless and secure connections

✔ Flexibility to allocate local caching size

Recommended Solution Architecture

This is a simple architecture that creates a backup of your existing architecture on the cloud using Alibaba Cloud storage service called OSS. Transferring data to and from Alibaba Cloud OSS typically occurs through the network, and is, therefore, accessible from any location.

The backup and recovery scenario on the public cloud is achievable via a storage gateway installed on a user's on-premise virtual machine and is responsible for configuring the connection to Alibaba Cloud OSS buckets. Storage gateway is installed in a datacenter and is connected to OSS directly. The storage gateway supports industry standard protocols such as NFS and iSCSI to provide a seamless, low-latency, and secure connection between your on-premise environment and Alibaba Cloud OSS.