A background image of a server room with rows of server racks. The lighting is a mix of blue and orange, creating a futuristic feel. The racks are filled with various components, and the perspective is looking down a long aisle.

USING MODEL9 CLOUD DATA MANAGER FOR MAINFRAME WITH AMAZON WEB SERVICES

OVERVIEW

Our patented technology connects the mainframe directly over TCP/IP to cloud storage and allows you to supplement or completely eliminate the need for virtual tape libraries and physical tapes. With Model9, you can take advantage of any Amazon Cloud Storage product from affordable long-term Amazon Glacier storage to highly durable, scalable, geographically dispersed and flexible low-cost Amazon Simple Storage Service (S3) object storage. Amazon Elastic Block Store (EBS) and Elastic File System (EFS) are also supported.

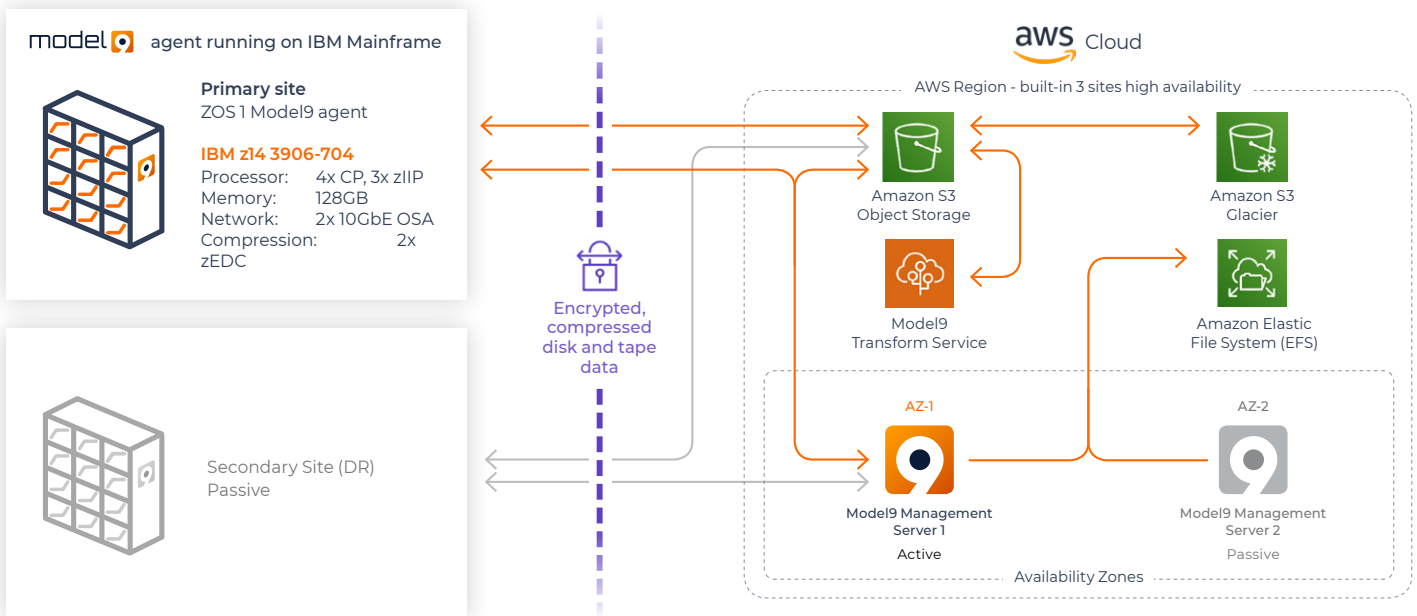
Model9 Backup and Recovery for z/OS performs backup, restore, archive (migrate) and automatic recall for all z/OS data sets and volume types, including z/OS UNIX file-level backup and restore, space management and stand-alone restore. Model9 eliminates the need for physical and virtual tapes and consolidates the functionality of multiple backup and tape management products into a single solution that dramatically reduces costs and provides either added capabilities such as write once protected copies, or a complete replacement of existing backup and tape management software. It can coexist side-by-side legacy backup and tape management products for simplified migration.

KEY FEATURES

- Create secured backup copies directly to Amazon cloud storage
- Recover and restore data quickly directly from Amazon cloud storage
- Access mainframe data with Amazon analytic tools (Athena, Redshift and others)
- Cut costs by 50% or more by reducing backup and archive MSU consumption, consolidating software licenses and using affordable cloud storage
- Replace costly virtual tape hardware (VTS, VTL etc.) with affordable cloud storage

HOW IT WORKS

The Model9 Agent is a zIIP-eligible Java application running on z/OS. It uses standard z/OS data management services, such as using DFDSS as the underlying data mover, updating system catalog, full compliance with existing SMS policy and relying on RACF authorization controls (or other SAF-compliant security products). When available, the Model9 Agent utilizes the zEDC and CryptoExpress cards for compression and encryption. If the cards are not available, compression and encryption are performed on zIIP engines.



USE CASES

Backup and disaster recovery directly from the cloud

Consolidate legacy backup (such as IBM DFHSM, CA-Disk, FDR/ABR), tape management (IBM RMM, CA-1, CA-TLMS, BMC Control-M/Tape), encryption and reporting software products into a single modern backup solution. Store backups directly in Amazon cloud storage, including S3, EBS and EFS. The cloud is directly accessible from your mainframe, no additional hardware, disk or tape emulation layers is required.

In disaster recovery situations, a stand-alone restore program is IPLed, over the network, directly from the Model9 management server (using the HMC "Load from removable media or server" action). The stand-alone restore program is used to restore volumes and data sets without requiring the backup agent to be running in z/OS.

Archive to cold storage in the cloud

To maximize your benefit of cloud economics, cold storage tiers such as Amazon Glacier are supported. Model9 supports data set archive (migrate) directly to cloud storage and provides an automatic recall function transparent to TSO/E and batch applications. The automatic recall functions is integrated seamlessly with the system catalog and data sets appear as migrated to cloud.

Archiving data sets directly to the cloud can help reduce costs by reducing VTL storage capacity and throughput licenses, while maintaining durable data copies that are available for retrieval directly from the cloud, including in DR situations.

Access mainframe data in the cloud for analytics, AI and ML

Mainframe data stored by Model9 in Amazon cloud storage can be extracted, transformed and accessed by standard Amazon cloud analytic tools such as Athena and Redshift.