If you need low-latency access to your entire dataset, first configure your on-premises gateway to store all your data locally. Then, asynchronously back up point-in-time snapshots of this data to Amazon S3. This configuration provides durable and inexpensive offsite backups that you can recover to your local data center or Amazon EC2.

S3 and Glacier are not used for this purpose. Volume gateway provides an iSCSI target, which enables you to create volumes and mount them as iSCSI devices from your on-premises or EC2 application servers. The volume gateway runs in either a cached or stored mode. In the cached mode, your primary data is written to S3, while retaining your frequently accessed data locally in a cache for low-latency access. In the stored mode, your primary data is stored locally and your entire dataset is available for low-latency access while asynchronously backed up to AWS.

AWS Snowball has 80TB and 50TB models.