Panzura Cloud AMI for Amazon EC2

For many use cases, there are a multitude of benefits to having a local hardware appliance to manage and optimize connectivity to centralized cloud storage. There are other use cases, though, where locating the connectivity and optimization in the cloud itself provides the greatest value.

Panzura meets both needs with Panzura Controllers and Panzura Amazon Machine Images (AMI) for Amazon's Elastic Compute Cloud (EC2).

Panzura AMI

The Panzura AMI brings all the features and capabilities of a local Panzura controller to the Amazon cloud, giving in-cloud applications direct access to Amazon Simple Storage Service (S3), via standard CIFS or NFS, from any location in the global infrastructure. Enterprises can leverage the flexibility and scalability of EC2 and all the benefits it provides while tying it directly and seamlessly to the S2 connected Panzura Global File System. The Panzura AMI provides fast, global access for any of these EC2 instances to the enterprise central data store in S3, subject to permissions, empowering a worldwide, low-cost, nimble, responsive IT environment.

The Panzura AMI also provides advanced disaster recovery (DR) capabilities for any physical location by enabling an enterprise to recreate an exact instance of the controller from any physical site that goes down. It seamlessly transitions from a remote appliance to an in-cloud AMI and enables the reconstruction of the lost site directly in EC2, with access to the necessary data in S3. This enables fast recovery for immediate access without rebuilding the physical site. This eliminates restoration from local disk copies or trying to retrieve and reload the right tape deck.

Panzura's Quicksilver AMI provides multiple benefits for Amazon EC2 customers:

- A single global file system, plus the S3 data store, connects physical sites to the virtual AMI instance
- Seamless access to unlimited compute and unlimited storage
- Rapid and simple in-cloud disaster recovery
- Massively scalable cloud capacity backed by Amazon

Panzura AMIs offer the same award-winning capabilities of the standard Panzura Control, including:

- Permission-based access to all data from the entire global infrastructure, including the cloud.
- Global deduplication for massive reduction in capacity needs.
- Military-grade AES-256-CBC and TLS encryption with FIPS 140-2 Federal validation.
- Dynamic file locking to arbitrate write access to a single file for users in geographically dispersed locations.
- Full cloud integration providing low cost, infinite scalability.
- A global file system with up to 10,000 user-managed snapshots per controller for self-service recovery.
- Large local cache and data pinning capabilities to bring LAN-speed access to commonly used files.
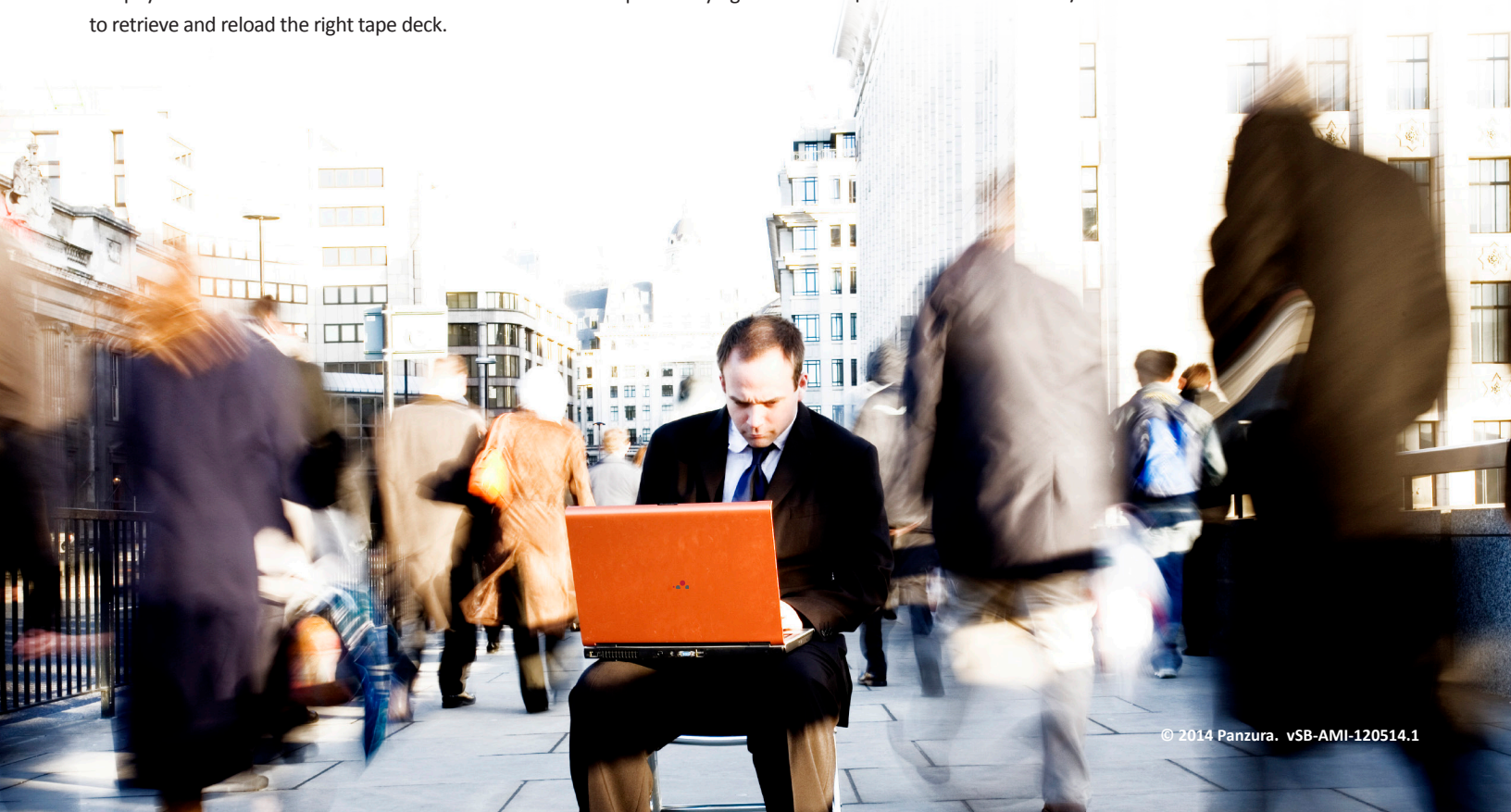
Complete Cloud-Integrated Storage

Whether it is an enterprise with few sites but lots of data, lots of sites and a moderate amount of data, or some mixture that includes the need for virtual compute capabilities in EC2, Panzura Controllers provide a full NAS cloud-integrated storage experience, regardless of where or how controllers are deployed. With the Panzura AMI, IT leaders now can create virtual, cloud-based compute environments that seamlessly tie directly into their global physical and virtual infrastructure and the Panzura Global File System. This AMI version of the award-winning Panzura Control turns integrating cloud compute into simple process and provides a platform for a new era of enterprise computing.
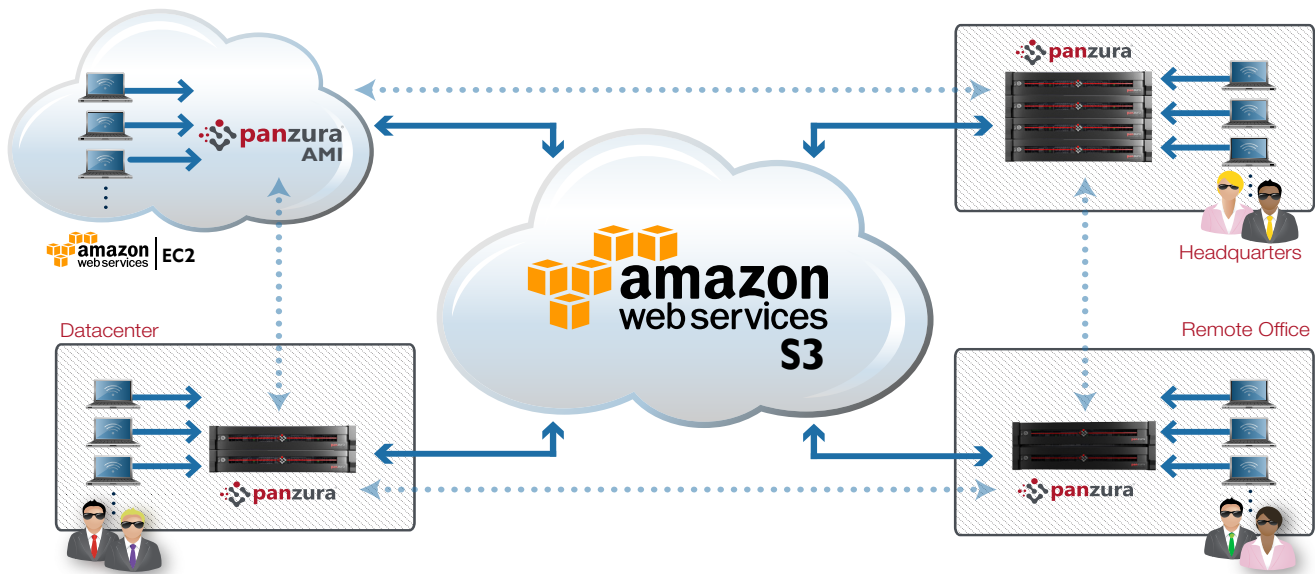
Panzura Cloud Storage Specifics

	AMI-Small	AMI-Medium	AMI-Large
Amazon EC2 Instance Family	General Purpose	Compute Optimized	Memory Optimized
Amazon EC2 Instance Type	m3.2 x Large	hi1.4 x Large	cc2.8 x Large
SSD Acceleration	N/A	N/A	2ea SSDs
Usable Local Cache	Up to 15TB		
Max. File System Capacity	Unlimited		
Max. Number of Files	2^48 x Number of Controllers		
Max. File Size	16 EB		
Max. Snapshots	10,000		
Max. Cloud Capacity	Unlimited		
Encryption	Military-Grade AES-256-CBC, TLS v1.2		
Network Protocol Support	CIFS (SMB v2), NFS (v2, v3; over TCP and UDP)		
Cloud Connection Protocols	HTTPS, SSH		
Monitoring	SNMP v3		