

# CloudArray® Virtual Appliance

## Turnkey Simplicity for Virtual Environments

CloudArray®, TwinStrata's breakthrough Cloud storage appliance, is an enterprise-class data storage and data protection solution that enables organizations to instantly expand their storage capacity securely using one or more cloud storage providers. CloudArray Zero-Friction Enterprise Storage™ seamlessly integrates into existing on-premise storage environments and delivers cost-effective storage services optimized for performance, multi-site availability and elastic unlimited storage.

Typical use cases for CloudArray include online remote storage for backups, archives, and other business data, including primary storage. CloudArray caches data locally to provide local performance. Flexible and easily configured dynamic caching policies allow different cache configurations for different volumes, based on application requirements.

The CloudArray Virtual Appliance eliminates problems with unwieldy installations and can help reduce installation and configuration time to minutes instead of hours or days. Administrators can simply download the CloudArray virtual appliance, import the image to their chosen Hypervisor (VMware, XenServer, or Hyper-V), and power on the appliance.

### CloudArray Virtual Appliance System Requirements:

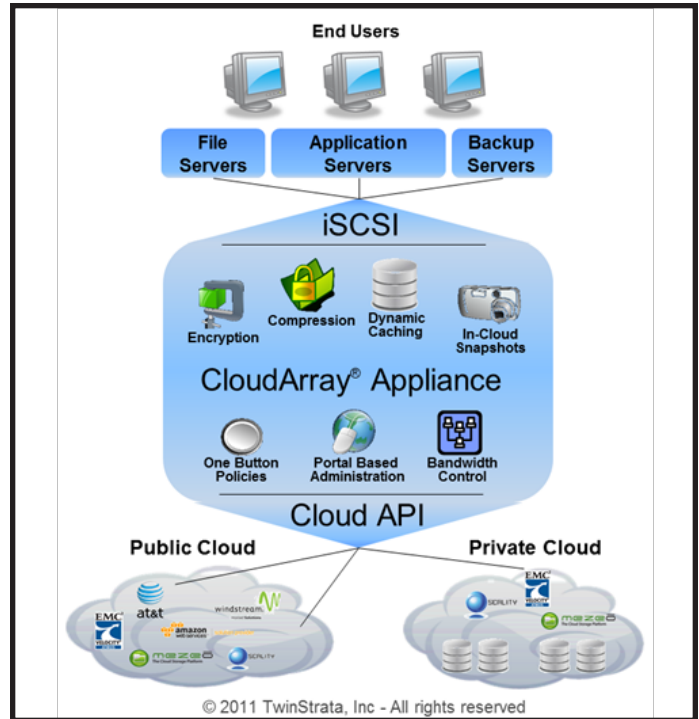
- 64-bit server running VMware ESX or ESXi Server v3.5 or higher, Citrix XenServer v5.5 or higher, Microsoft Hyper-V, Amazon EC2
- 50 GB free disk space min
- 1GHz 64-bit x86-based CPU min (2 CPUs recommended)
- 4GB RAM
- 1Gb Ethernet network

### Deployment Features:

- Virtual Appliance packaging provides for rapid image instantiation
- Simple installation and setup
- The Virtual Appliance can utilize existing infrastructure resources

### Simplified Administration:

- Data volume expansion capabilities
- One-button configuration restore and recovery
- Integrated licensing and alert reporting on CloudArray online portal
- Browser based administration
- Thin provisioned volumes
- Automated metadata backup to secure portal
- Full CLI, GUI and API interfaces
- Policy driven dynamic caching
- Uses any local storage (DAS, SAN, NAS)
- Multiple simultaneous caches and caching policies
- Bandwidth Throttling and Scheduling



### Key Features:

- Snapshot capabilities provide space-efficient point-in-time copies in the cloud
- AES 256 bit data encryption
- Data compression (improved, larger block sizes)
- iSCSI Host interface
- Excellent host support (Windows, Linux, Solaris, Mac, HP-UX, VMware ESX/ESXi)
- Multiple Cloud storage interfaces supported including Amazon S3, Amazon RRS, AT&T Synaptic Storage, EMC Atmos-enabled partners, Mezeo-Ready Partners, Peer 1, Scalify Partners, and Windstream (Hosted Solutions)
- Multiple, concurrent Cloud connections
- Multiple, concurrent volumes supported
- Cloud volumes are cached for local performance
- Local cache asynchronously copies to the Cloud
- Significantly reduced capital and administration expense for off-site data storage solutions
- Significant cost savings over tape solutions, D2D backup and off-site replication infrastructure
- Enhanced data protection, fast restores without tape
- Supports multiple hypervisors (VMware, XenServer, Hyper-V)
- Supports VMware high availability features (VMotion, HA, FT)
- Can be restored to the Cloud (EC2, VMware) for Disaster Recovery
- Zero time restore
- Instant Disaster Recovery
- Compute Anywhere™ application access