

PixStor



Container Services For Audit-Compliant Security

Solution Benefits:

- Unlocks true multi-tenancy from a single storage fabric.
- Facilitates Audit-Compliance.
- Speedy deployment of secure data environments - without crippling productivity.
- No performance overhead or bottlenecks
- Disposable, clusterable and floatable as a resource within your system.
- Huge cost-savings when compared with alternatives.
- Reference architectures have been approved by TPN auditors
- PixStor's ability to fine-tune performance, storage and workflow requirements.

With reference architectures aligned to industry-approved audit organisations, PixStor Container Services provide a storage environment in which content is isolated, enabling you to create shared storage workflows that keep high value content secure in a cost-effective manner.

Taking Security Seriously

As Hollywood's leading content owners continue to drive the M&E industry to seal up the cracks in the digital supply chain to protect creative work, the ability to ensure secure handling of data is now of critical importance in their choice of partners. Entertainment vendors worldwide, who have embraced a shared storage environment for scalability and the collaborative workflow efficiencies it delivers, must now demonstrate to prospective clients how, within that same environment, their valuable assets can be locked down, audited, preserved and securely protected to industry approved standards, such as those established by the Trusted Partner Network (TPN) and Motion Picture Association of America (MPAA).

The Commercial Challenge

The practicalities of keeping high-value assets safe and ensuring facilities, staff and workflows meet stringent security standards - whilst remaining competitive - present huge challenges.

For creative studios and distributors, seeking to take on audit-compliant data separation, the options to date have been limited and commercially unattractive. All required dedicated servers - either physical or virtual. Virtual servers come with significant risks around stability and typically a massive hit on performance. Physical servers offer the required performance but at a great expense, especially for many tenants. To stand up an entirely dedicated infrastructure stack for each client and physically separate its networks, adds significant complexity, disruption and expense, which means doing business with A-List clients can be cost-prohibitive. Now there is a solution to manage the bottom line and keep clients' valuable assets safe: PixStor Container Services.

True Multi-Tenancy In A Single Storage Fabric

The latest version of Pixit Media's PixStor platform for scalable storage and workflow collaboration includes enterprise-class containerized NAS services to deliver multitenancy for secure and DMZ projects. These services enable entertainment vendors to deliver multi-tenant secure data services natively within the PixStor shared environment, with one infrastructure providing logical separation and isolation of the data: true multi-tenancy on a single storage fabric.

At the Heart of the Solution

Gateway Nodes for Client Access

- Instead of these nodes hosting NAS shares (as they would traditionally do), they host containers
- These containers have affinity to Directory Services (such as AD), and run the NAS services
- A user who connects to the container, can 'see no further'
- No performance overhead or architectural bottlenecks

Container Services

- Disposable, can be spun up & down with no disruption to other tenants
- Become a 'floatable' service, that can move around in a multiple node environment
- Have their own dedicated configuration management providing granular control for sys admins

Compliance Audit

- In security terms, we minimise lateral movement within the storage network, reducing the attack surface. This design has been approved in principle by TPN Auditors

Other Application Uses

- Facilities or OB production companies ingesting content via data I/O workstations with tight regulations on rules, firewalls & push/pull policies can enjoy complete data isolation.
- Delivery or DMZ from external agencies, where files need to be checked & secured to avoid exposing the network, can be supported within the same infrastructure with logical separation of data.

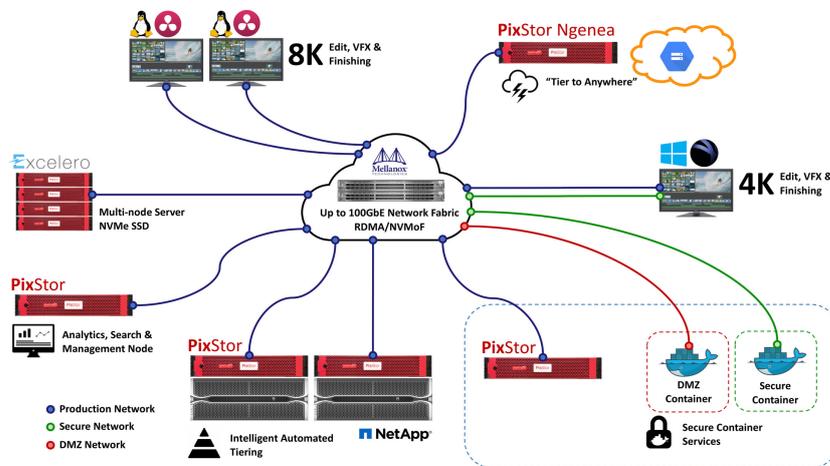
Powerful Simplicity

Using PixStor container services, organisations are able to connect a workstation to a particular network – be that a physical or VLAN network, depending on the security model they wish to adopt. Instead of attaching it to the NAS services in the PixStor head, the services are run inside a container cluster with a set of folders attached only to that specific network. In this way, the attack surface is reduced and lateral movement minimised. The container cluster only has visibility of the isolated sections of the file system being shared through that container service. If you are working with one vendor, you are unable to then use that credential to hop into another network share because it is completely isolated. Simple but effective.

Multi-Tenancy At Scale With No Impact On Performance

PixStor Container Services can support multiple, independent domains and user identity systems from the same PixStor system - thus supporting customers who have a mixture of Active Directories, LDAP services, etc, without ever hitting a "brick wall" or making compromises on one service for the benefit of another.

Users benefit from all the features of PixStor platform: high availability, the ability to fine-tune performance and storage needs with intelligent automated tiering, whilst empowering collaborative Any-K workflows with enhanced search and seamless deployment to cloud marketplaces for cloud-first and hybrid burst-render.



PixStor Container Services as part of a collaborative Any-K workflow

PixStor Delivers Competitive Advantage

Always focused on our customers' business and workflow challenges, Pixit Media has developed Containers Services in close collaboration with leading post-production houses as well as a major international broadcast distributor. Through PixStor we facilitate audit-compliance, protect data to the most stringent levels, enable the speedy deployment of secure environments without crippling productivity - delivering a real competitive advantage to empower our customers to take on any project, create award-winning work and evolve their business.