

VDI Solution Brief

Key Challenges of VDI

In recent years, many organizations started exploring deployment of virtual desktop infrastructure (VDI) to achieve higher levels of desktop efficiency and centralized management. However, network storage often inhibits adoption of this powerful technology due to high upfront cost, inability to scale effectively and unpredictable performance. Springpath Data platform provides an excellent solution for VDI environments by reducing cost, simplifying deployment and management and enabling consistent performance that scales linearly.

Reduce Costs With Standard Servers and Storage

Springpath Data Platform converges the entire infrastructure stack into a single elastic resource pool running on standard servers from vendors like Cisco, Dell and HP and others. This software hyperconvergence solution eliminates the need to purchase expensive network storage for VDI environments by using direct attached storage (DAS) within standard servers.

The Springpath Data Platform utilizes all servers and storage resources across the available pool to deliver optimal cost effectiveness. As a result, the VDI validated reference architecture delivers excellent datacenter service density. The joint solution delivers “always on” operations – addition or removal of capacity as well as software upgrades are done without downtime, ensuring optimal desktop user productivity.

Start Small and Scale As-You-Grow

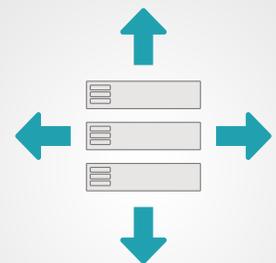
With Springpath Data Platform, you can start with only three standard servers and add capacity when needed. The Springpath software is sold on subscription basis so upfront cost deploying the joint VDI solution is particularly low. Once the environment is ready for expansion, you can simply add nodes to the cluster. Springpath Data Platform automatically rebalances the data across all shared storage and starts utilizing the added resources in order to ensure linear scaling.



**70% LOWER COST
COMPARED TO
NETWORK STORAGE**



**ELIMINATE NETWORK
STORAGE COMPLEXITY**



SCALE-AS-YOU-GROW

Simplified Storage Management

Springpath dramatically simplifies provisioning and ongoing management of VDI environments. There are no legacy network storage constructs such as volumes to provision or LUNs to configure. All storage management is performed at a VM-level from familiar management tools such as VMware vCenter.

Advanced Data Management and Optimization

The Springpath VDI solution has been validated and tested for both persistent and non-persistent desktops. The solution provides rapid (non-linked) cloning and snapshotting capabilities, enabling organizations to deploy hundreds of desktops in minutes.

Native inline deduplication and compression are always-on to ensure maximum resource utilization and minimal footprint without adversely impacting desktop performance.

In case of a hardware failure, the Springpath Data Platform automatically self-heals by rebalancing data using replicas in other servers, and alerts administrators for quick resolution.

Consistent Performance

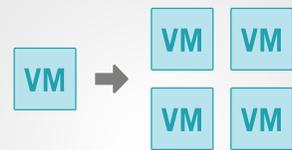
Springpath was designed to effectively utilize all resources across nodes to highest levels of I/O performance at low latencies with predictable performance.

The caching tier, utilizing SSDs, is used to store hot data sets that are frequently or recently read from the capacity tier. This tier mitigates boot storms that would bring other systems to a halt. There is no exclusive localization of VM I/O, allowing nodes that would otherwise be idle, to participate in resource intensive applications.

The Springpath Data Platform was purpose built for enterprise-grade hyperconvergence, so performance stays consistent, does not degrade over time, and scales linearly.



**5X DATA REDUCTION,
INLINE DEDUPE AND
COMPRESSION**



**HUNDREDS OF CLONES
IN MINUTES**



**LINEAR
PERFORMANCE**

