

Southeast Aerospace saves around \$20K on its IT operational expenses (OpEx) by implementing a remotely supported and managed IT infrastructure built around StarWind HCA

Southeast Aerospace

About the Company

Founded in 1993 and based in Melbourne, Florida, Southeast Aerospace services the general aviation, corporate, regional airline, rotorcraft, and government aircraft markets specializing in the integration, sales, modification, and service of avionics, instrumentation, and related systems.

Company Profile

Aviation Manufacturing/Repair

Contact Person

James Castellano, IT Director

Problem

The company needed a hyperconverged platform to achieve scalability and redundancy.

Solution

With StarWind HCA, the company builds a high-performance IT infrastructure fully supported 24/7.

Problem

Before implementing StarWind HCI Appliance (HCA), **Southeast Aerospace, Inc.** had a 2-node VMware NAS-based solution. The existing virtualized infrastructure was aging and approaching end-of-life. Scalability was hindered as it didn't provide the performance needed to expand and support numerous critical servers. The expense to upgrade the entire infrastructure, either by replacing each individual component or investing in an integrated hyperconverged infrastructure, was seemingly cost-prohibitive. Performance, redundancy, scalability, and support were all critical components influencing the company's decision on which solution to go with.

Solution

Southeast Aerospace, Inc. has chosen **StarWind HCA** as it has demonstrated an impressive track record of highly successful implementations. StarWind solved all issues with high-quality and high-performance hardware configured to provide the redundancy and scalability needed to ensure continued business-critical operations and growth in the company's environment. Southeast Aerospace was able to move critical non-virtualized servers to its StarWind infrastructure with improved performance for the company's users. The StarWind solution also provided the peace of mind, knowing that not only were the hosts set up for high availability but also the storage through the use of StarWind vSAN. With the initial investment, the company saved close to \$20,000 and expects to save close to \$10,000 a year on licensing costs alone due to the elimination of discrete storage. Based upon the company's continued experience with StarWind, in the future, Southeast Aerospace also plans to be with **StarWind** when adding new nodes to its solution.



The resulting infrastructure provides the high IOPS and redundancy needed to migrate critical servers to our virtual environment. All requirements were completely satisfied with the StarWind HCA solution.

James Castellano, IT Director

StarWind HyperConverged Appliance Configuration

| Appliance Model | HCA P-Spec 7.6 |
|--------------------------|--|
| Cluster Size | 2 nodes |
| Cluster density | 2U |
| Servers | Dell PowerEdge R640 |
| CPU | 2 x Intel Silver 4208, 2.1 GHz, 8 cores, 16 threads per node |
| Memory | 8 x 16GB Dell DDR4 ECC RDIMM 2400Mhz (128 GB total) per node |
| Cluster Storage Capacity | 7.68 TB of SSD storage |
| Disk Configuration | Dell Perc H740P MiniMono Controller 5 x Dell 1.92TB 6Gbps SATA Mix Use TLC 2.5" SSD S4610 per node Dell BOSS 2 x 480GB M.2 SSD |
| Networking | Mellanox ConnectX-4 Lx Dual Port 25GbE DA/SFP Dell Intel X520-DA2 Dual Port 10Gb SFP+ CNA Low Profile |
| Hypervisor | ESXi 7.0 |