

About Customer

Supporting critical air defense in their home country, military branches are dedicated to using the latest flight simulation technologies and granular data analysis to improve pilot training and aircraft performance.

Geo

North America

Industry

Government

Solution Area

Accelerate Core Applications
Activate Real-time Analytics

Pure Storage®

Products in Use

FlashBlade®
FlashArray//X™
FlashStack®
Evergreen//Forever™
Pure Services

Fighter Pilots Fly High on Simulation Data Insights

Training fighter pilots for every possible scenario is essential to a country's air defense program. As the world's most advanced defense organizations, military branches go even further by using sensor data from training simulators and real-world flights to help make training missions more safe and effective.

Using Pure Storage FlashBlade and FlashArray, running on a high-performance FlashStack infrastructure, the military IT team can collect, analyze, and draw insight from huge volumes of aircraft and flight simulation data to better prepare pilots for combat while improving the country's air defense posture. The project gives pilots an edge through in-depth performance insights. The project allows military IT staff to more efficiently support training missions with a modern hybrid cloud infrastructure that scales on demand to meet their AI processing requirements.

The ease of storing and analyzing unstructured data with Pure is matched only by how easy it is to replicate military branches' approach in multiple data centers. It ticks every box for storage performance and scale.

Expected Impact



Augment pilot training and defense strategies with in-depth data insight



Simulate threat-dense environments that were once impossible to recreate



Extend powerful data storage and analysis capabilities to 4 data center sites

Challenges



Overcome staff turnover to bring a multi-year IT project to life



Handle unprecedented volumes of unstructured simulation and flight data



Eliminate slowdowns while minimizing its physical and energy consumption footprints

Results



Cut 180 days-worth of manpower from storage upgrade processes



Easily analyze and act on data in multiple formats and file sizes



Replicate data center enhancements at multiple sites with minimal effort

Breaking a New Training Barrier

When flying a jet at twice the speed of sound, even the smallest adjustment delivers major tactical advantages. To strengthen air defenses and improve pilot performance in threat-dense environments, this military organization plans to analyze hundreds of sensor data points from in-flight aircrafts and pilot training simulators.

The sensors emit data on everything from airflow over an aircraft's wings and pilot response times, to weather information, which it must immediately collect, combine, and analyze to optimize flights. It chose Pure's best-in-class storage for the job, implemented with Pure Professional Services.

Data Management Reaches New Heights

With Pure FlashBlade, the military can easily ingest, analyze, and draw insights from its sensor data. It can also handle unstructured data with ease, which means it can analyze multiple file sizes and formats from thousands of sources. It also uses Pure FlashArray to underpin its data storage with a Virtual Desktop Interface (VDI) and database environment. FlashStack from Pure and Cisco Systems provides a hybrid cloud infrastructure solution that will speed up new project deployments and deliver superior performance to support granular flight and simulator analyses across the country.

The ease of storing and analyzing unstructured data with Pure is matched only by how easy it is to replicate the IT team's approach in multiple data centers. It ticks every box for storage performance and scale.

An intuitive Flight Path

Ease of use was a top priority for the IT team, which has high turnover and counts many contractors on its team. Unlike private industry, it doesn't have months to train new hires. As an over-the-shoulder learn, Pure was an intuitive solution for its long-term goals.

That spirit of simplicity extends to its use of a Pure Evergreen//Forever subscription, which delivers the latest in storage technology innovation while eliminating traditional forklift upgrades. As a result, the IT team expects to cut 180 days from its upgrade cycles every few years. Data protection comes via Pure's partnership with Cohesity, adding another layer of performance while keeping the military's power consumption for this project to a minimum.

Energy management is a global concern, so the fact that the IT team can scale while keeping its footprint to a minimum is the icing on the cake.

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