

# MEET AIRI™

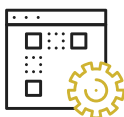
## YOUR FIRST AI-READY INFRASTRUCTURE AT SCALE

### THE ERA OF AI IS HERE

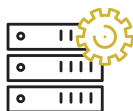
Enterprises will tap the power of AI for faster innovation and a competitive edge. Yet AI requires a completely new infrastructure, and the complexities of legacy solutions are holding enterprises back from moving into the new era of intelligence.

### “DO-IT-YOURSELF” OFTEN YOUR ONLY OPTION

AI requires new, modern technologies like GPUs, scale-out flash, and RDMA fabric to move tremendous amounts of data. Unfortunately, too many AI initiatives are stalled with the complexities of a “do-it-yourself” approach using legacy technologies, leading to months of delays and idle time.



**NEVER-ENDING CYCLES OF COMPILING & TUNING OPEN SOURCE SOFTWARE**



**MONTHS OF SYSTEM BUILDING AND TUNING, CONSTANT MAINTENANCE**



**LEGACY SOLUTIONS FULL OF DATA BOTTLENECKS, FROM STORAGE TO GPU TO APPS**

### AI-AT-SCALE MADE SIMPLE AND FAST

AIRI™ is the industry’s first complete AI-ready infrastructure, architected by Pure Storage® and NVIDIA® to extend the power of NVIDIA® DGX™ systems. Powered by FlashBlade™ storage and NVIDIA DGX-1 servers, AIRI offers enterprises a simple, fast, and future-proof infrastructure capable of growing from AIRI “Mini” to rack-scale – and meeting AI demands at any scale, without downtime.

### AIRI AI SOLUTION

ARCHITECTED BY PURE STORAGE AND NVIDIA, ENABLING AI-AT-SCALE FOR EVERY ENTERPRISE



#### AIRI

4x NVIDIA® DGX-1™ SYSTEMS  
4 PFLOPS of DL Performance

**PURE FLASHBLADE**  
15x 17TB Blades  
1.5M NFS IOPS

**CONVERGED FABRIC**  
2x 100Gb Ethernet Switches with RDMA

#### AIRI MINI

2x NVIDIA® DGX-1™ SYSTEMS  
2 PFLOPS of DL Performance

**PURE FLASHBLADE**  
7x 17TB Blades  
700K NFS IOPS

**CONVERGED FABRIC**  
2x 100Gb Ethernet Switches with RDMA

#### SOFTWARE

**NVIDIA GPU CLOUD DEEP LEARNING STACK**  
NVIDIA Optimized Frameworks

**AIRI SCALING TOOLKIT**  
Multi-Node Training Made Simple

### AIRI SIMPLIFIES AI-AT-SCALE

- Reduces racks of complexity into a complete solution
- Data scientists can focus on algorithms, not infrastructure

### AI-AT-SCALE IS AN ADVANTAGE

- More compute = faster training, more data = higher accuracy
- AIRI makes it simpler to run multi-node training

### AI IS DIVERSE AND EVOLVING

- From CNNs to GANs, AI is constantly changing
- AI is a data pipeline, requiring an integrated platform

### 50 RACKS UNDER 50 INCHES

AI pushes beyond the reach of legacy technologies like serial CPUs and spinning disks. At the core of AIRI are NVIDIA® DGX-1™ servers and FlashBlade, industry-leading solutions architected for AI. Each replaces the performance of many racks of legacy technology, offering data scientists the power of a large supercomputer for any AI initiative – in a converged solution with a fraction of the physical space and power and cooling costs of legacy infrastructure.

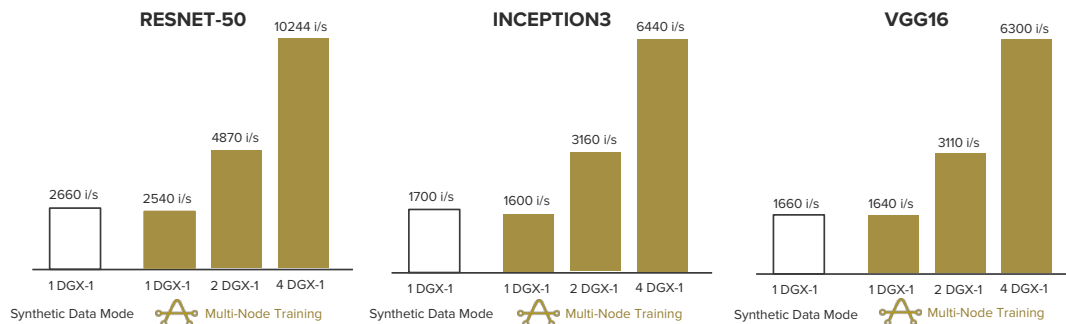


### DATA BOTTLENECKS, ELIMINATED

“Do-it-yourself” infrastructure requires constant tuning. As one bottleneck is resolved, another often shows up somewhere else in the system, resulting in weeks to months of lost productivity. AIRI is a complete infrastructure, tuned from software to hardware to keep the GPUs busy for workloads at any scale.

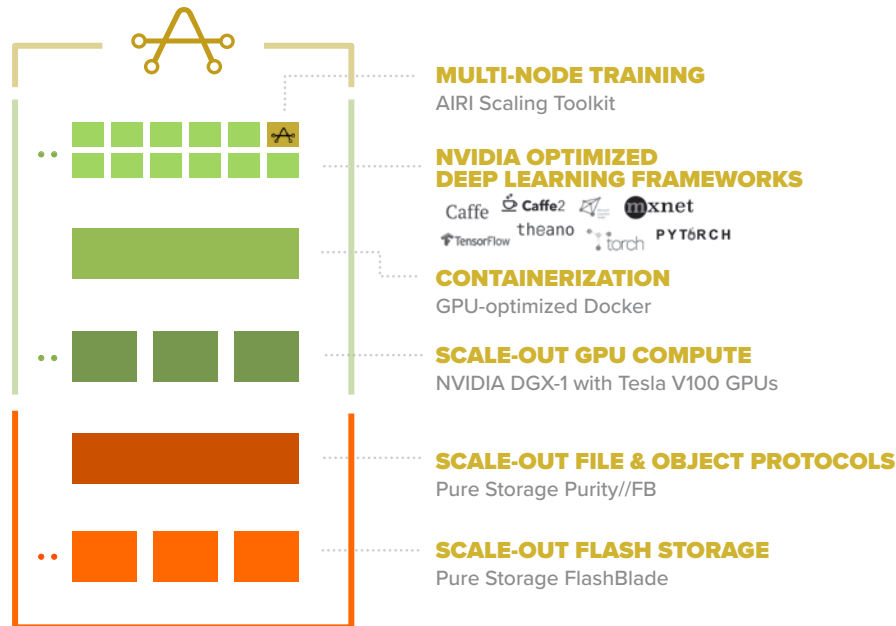
### AIRI DELIVERS LINEAR, SCALE-OUT PERFORMANCE

KEEPING GPUs BUSY WITH TENSORFLOW AND 100Gb ETHERNET WITH RDMA



## AIRI TECHNOLOGY STACK

EXTENDING THE POWER OF NVIDIA DGX-1 SYSTEMS FOR AI-AT-SCALE



AIRI is built with a **complete software stack** enabling data scientists to get up and running in a few hours, not weeks or months. **AIRI Scaling Toolkit** allows users to run their first multi-DGX training within hours, with a few commands, and to slash training time from weeks to days for their most critical AI workloads.

## CUSTOMER HIGHLIGHT

### LEADING SOLUTIONS PROVIDER BRINGING AI TO ALL ENTERPRISES

ElementAI is an artificial intelligence solutions provider that gives organizations unparalleled access to cutting-edge technology. It is founded by leading AI experts, including Yoshua Bengio, who is widely considered to be one of the three pioneers of deep learning.

**ELEMENT<sup>AI</sup>**

“AIRI represents an exciting breakthrough for AI adoption in the enterprise, **shattering the barrier of infrastructure complexities** and clearing the path to jumpstart any organization’s AI initiative. AIRI is built with the same core solutions ElementAI uses extensively both internally and with customers – the NVIDIA® DGX-1™ and Pure Storage FlashBlade.”

Jeremy Barnes, Chief Architect, ElementAI

VISIT [PURESTORAGE.COM/AIRI](http://PURESTORAGE.COM/AIRI) TO LEARN MORE

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