

PARAM Siddhi Al software stack diagram

Central Logging (Grey

Log), Prometheus, and

ELK

Lustre PFS (10.5 PiB)

## Technical Specifications

NIVIDIA DGXA100 (DGX OS, Docker/Container Runtime)

HDR100 InfiniBand Storage Delivery Network

HDR200 InfiniBand Compute Communication Network

- Access to world class resources: ML/DL Software Stack along with inferencing development kit, frameworks, libraries, cloud management software, containerized applications
- Resource partitioning and dynamically provisioned application execution environment
- Provision to support plethora of HPC/AI adaptable workloads and ML/DL frameworks based on user choices
- Energy-saving, high teraflops per watt per server rack space
- Low latency high bandwidth network
- Stream processing capabilities from edge using KAFKA and SPARK working in unison with batch queuing and scheduling orchestrator
- Resource consumption and service delivery over NKN with failover leased line for business continuity
- Multi-tenant highly secured and isolated data protection environment
- Service delivery models analogous to cloud computing paradigm

Platform & Inference Cluster

100G Ethernet Cluster Communication Network

HDR100 InfiniBand Storage Delivery Network