



CyberRax Data Flow Pipeline With Storage

The CyberRax Cybersecurity Pipeline is a turn-key, high performance computing platform designed specifically for Cloudera Data Flow and Data Platform. The system is certified compatible with Cloudera Data Flow (Apache NiFi) and includes all necessary hardware, networking and software for a simple, one-step deployment. Working in conjunction with Cloudera, the CyberRax Data Flow Pipeline is capable of providing high speed data ingestion, edge-data collection, and IOT scale streaming data processing.

The CyberRax Data Flow Pipeline with Storage Appliance includes:

- 2 Name Nodes, 8 Data Nodes, 3 NiFi Nodes & 2 Utility Nodes
 - Node Configuration Details on Following Page
- 848 TB Total High Performance Enterprise Storage
 - 576 TB High Performance Enterprise Storage on Data Nodes
 - 264 TB High Performance Enterprise Storage on NiFi Nodes
 - 8 TB High Performance Enterprise Flash Storage on Utility Nodes
- 216 Total Intel Xeon Scalable CPU Cores
 - 160 Total Intel Xeon Scalable CPU Cores / 2.2 GHz on Data Nodes
 - 48 Total Intel Xeon Scalable CPU Cores / 2.1 GHz on NiFi Nodes
 - 32 Total Intel Xeon Scalable CPU Cores / 2.2 GHz on Utility Nodes
- 1224 GB Total High Performance ECC Registered Memory
 - 1024 GB Total High Performance ECC Memory on Data Nodes
 - 192 GB Total High Performance ECC Memory on NiFi Nodes
 - 256 GB Total High Performance ECC Memory on Utility Nodes
- 10 GigE High Performance Network Backplane
- Management & Monitoring Network Include
 - IPMI / iKVM Management Interface
- Rack & Power Infrastructure Provided by End User
 - All Necessary Power and Network Cables Included
 - Installation Instructions Provided / Onsite Installation Available for Additional Cost
- Hawkeye Cluster Management Toolkit
 - CentOS Linux Latest PSSC Labs Supported 64 Bit Operating System
 - Hawkeye Feature Details on Following Page
- Cloudera Data Flow and Cloudera Data Platform (HCP) Bundle Installed
 - *Cloudera Licenses Sold Separately*
 - Configuration and Baseline Testing of HCP by Cluster Engineers
- Extensive Onsite Maintenance Kit



Image is representative only.

The ability to upgrade all system components including processor cores, memory, network backplane & available storage is built into the CyberRax Data Flow Pipeline. The system will grow along with your computing needs.



CyberRax Data Flow Pipeline

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- 48 Processor Core NiFi Cluster
- 3 Node Configuration Each Node with the Following Specifications:
 - 2U Rackmount Chassis with Redundant Power Supply
 - 16 x Total Xeon Scalable Processor Cores / 2.1 GHz
 - 64 GB High Performance 2666 MHz DDR3 ECC Registered Memory
 - Redundant OS Hard Drive Configuration
 - 80 TB Enterprise Storage
 - Content Repo: 32 TB Storage; 2 RAID 1 mount points (total 16 TB usable)
 - Flowfile Repo: 16 TB Storage; 1 RAID 1 mount point (total 8 TB usable)
 - Provenance: Repo: 16 TB Storage; 1 RAID 1 mount point (total 8 TB usable)
 - Other HDF components: 16 TB Storage; 1 RAID 1 mount point (total 8 TB usable)
 - 8 TB Enterprise Storage
 - Zookeeper: 8 TB Storage; 1 RAID 1 mount point (total 4 TB usable)
- 10/100/1000/10000 10GigE Network Interface
 - 10 GigE Switch Sold Separately
- IPMI / iKVM Management Interface
 - Management Switch Sold Separately
- CentOS 7.x Installed for Testing
- PSSC Labs HPC Hardware Integration & Testing
- Installation of OS & Raid Configuration
- Net Connect Integration Feature
- Cloudera Data Flow Installed
 - *Cloudera Licenses Sold Separately*
 - Configuration and Baseline Testing of HCP by Cluster Engineers