ViON® Forever Data Cloud

A Data Management Dilemma for AI, ML and HPC

New capabilities like Artificial Intelligence (AI), Machine Learning (ML) and High-Performance Compute (HPC) are presenting a data dilemma for CTOs and CIOs. The insights that can be gleaned through these new technologies are unquestionably game changing. But to be truly effective, they require massive volumes of historical data to support a continuous cycle of data ingest, analytics and inference. More data points increase the accuracy of analysis and predictions. Balancing the current pace of data creation with the growing need to access decades-old archived data, which resides in multiple locations, is making the job of IT leadership more complex than ever:

- Data continues to grow exponentially, and unstructured data is growing fastest
- Increased demand to access historical/archived data for analytics purposes
- Siloed data is not easily or quickly accessible across environments
- Expensive to store data in primary storage environments
- Public Cloud is expensive (fees, egress charges) and slow to restore data

A New Approach: ViON Forever Data Cloud

ViON's Forever Data Cloud is a data management solution that accelerates access to current and historical data quickly and easily, bridging the gap between data storage tiers (including block, file, object and tape) via a policy manager that delivers a public cloud experience with on-prem infrastructure. Users gain the benefits of as-a-Service pricing in an OpEx financial model but are not charged to access data. There are no ingress or egress fees – only pay for the capacity that is used.

The ViON Forever Data Cloud delivers:

- Storage resource that matches data requirements
- Automatic tiering of data through policies
- Easy access and fast searching across all data tiers
- Industry-leading perimeter cybersecurity
- Cybersecurity archive scanner for secure disaster recovery

STORAGE TIERS	
High Performance	All-Flash Arrays, NVMe, SAN Connectivity, High Bandwidth/Low Latency
Cool	Hybrid Storage, SSD, HDD, High Capacity
Cold	Tape Media, Long-term Storage
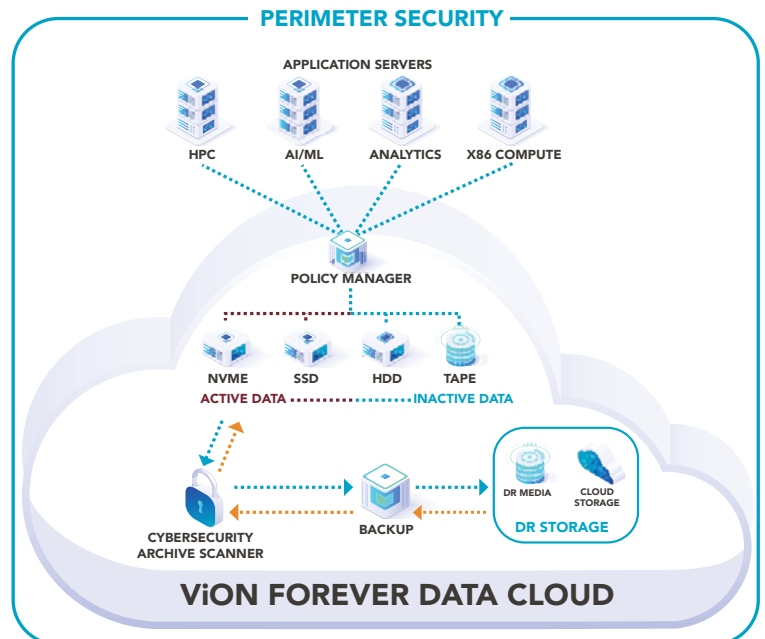
Designed for Data Security

ViON's Forever Data Cloud was developed with the goal of delivering data accessibility and security. Working with industry-leading OEMs, ViON provides secure access to data no matter where it resides.

Balancing data growth, retention, security and analytics is becoming increasingly complex. The ViON Forever Data Cloud provides a strategic approach to managing data long term in a simple, reliable and cost-effective solution.

THE FOREVER DATA CLOUD DELIVERS:

Cost-Efficiency

- Auto-align data class with storage type and SLA requirement to reduce TCO
- Optimize IT infrastructure throughout all phases of the lifecycle without added cost or complexity
- Frequency of access or policy determines storage tier, reducing reliance on costly primary storage

Simplicity

- Automated, policy-based tiering of data to simplify data lifecycle management
- Data is searchable and retrievable by users, regardless of storage tier
- Compatible with NVMe, SSD, HDD, Tape or Cloud systems

Reliability

- Leverage the flexibility of any storage type whether the data is on/off premise or online/offline
- Diversity of storage ensures access and eliminates risk of data loss or cyber attack
- Provides ability to fulfill regulatory compliance and/or internal data retention policy requirements

Scalability

- Manage data from TB to EB across multiple storage tiers without adding complexity
- Seamlessly add new storage capacity or technologies for future growth and new use cases

End-to-End Cybersecurity

Cyemptive Perimeter Fortress (CPF)

Installed at the perimeter to replace existing firewalls

Protects boundaries and secures access to systems and networks

Provides protection from North-South attack vectors

Cyemptive VPN Fortress (CVF) add-on provides secure VPN access

CPF Defense-in-Depth (CFP-DiD)

Installed within the data center to protect public clouds, high performance computing (HPC) environments and sensitive systems

Prevents infiltration/ exfiltration of malicious entities

Provides protection from East-West attack vectors

Cyemptive Web Fortress (CWF)

Boosts web security for applications and protects against threats without human intervention

Utilizes load balancing to ensure interruption-free requests between users and webservers

Cyemptive Archive Scanner (CAS)

Detects anomalies in the data prior to backup and when recovering files. This appliance and process ensure safe file backup, vaulting and recovery with secure auditing and alerting if any anomalies are discovered.

About ViON

ViON Corporation is a cloud service provider with over 40 years' experience designing and delivering enterprise data center solutions for government agencies and commercial businesses. The company provides a large portfolio of IT as-a-Service, including infrastructure, multi-cloud and artificial intelligence (AI) solutions. Focused on supporting the customer's IT modernization requirements, ViON's Enterprise Cloud is changing cloud management for the market, providing a streamlined platform to audit and control technology in an evolving multi-cloud world. The ViON Marketplace® allows customers to research, compare, procure and manage a full range of everything as-a-Service solutions from leading manufacturers via a single portal. ViON delivers an outstanding customer experience at every step with professional and managed services, backed by highly-trained, cleared resources. A veteran-owned company based in Herndon, Virginia, the company has field offices throughout the U.S. (vion.com).

To learn more, go to vion.com/cloud or email us at info@vion.com

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