VERITAS™

The truth in information.

Modern Data Protection for Next Generation Workloads.

OVERVIEW

Modern, next-generation workloads are fast becoming the primary engines for driving the transformation to the digital enterprise and are fueled by the exponential growth in the amount of unstructured data they need to consume and analyze. Six of the top 10 databases globally are open source databases and many organizations now run Big Data applications every day looking for that competitive edge.[1] To meet the demands for protecting the growing numbers of workloads and massive amounts of data requires new technologies and new techniques.

> "By 2018, more than 70% of new in-house applications will be developed on an Open Source DBMS.[2]"
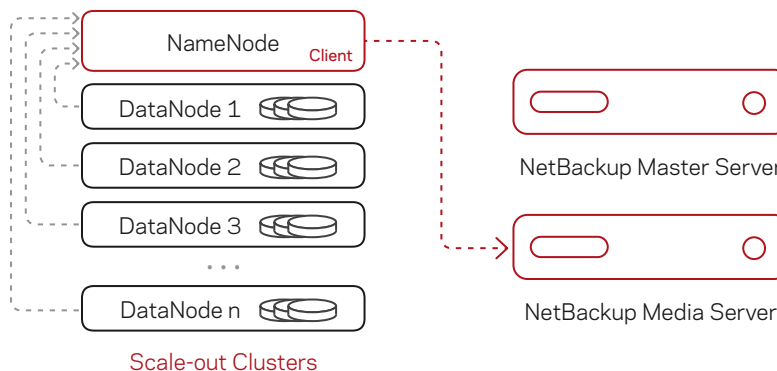>
> —Merv Adrian, Research VP
>
> —Donald Feinberg, VP Distinguished Analyst, Gartner

TRADITIONAL DATA PROTECTION CAN'T KEEP UP WITH THE PACE OF MODERN WORKLOADS

Many of these next-generation workloads leverage scale-out architectures to support the massive amounts of unstructured data and performance required to analyze and process this data. Traditional, single client data protection solutions simply can't scale creating performance bottlenecks and slow the adoption of emerging workload technology as data protection vendors try to keep up with new client releases.

Traditional data protection technology in practice today:

NameNode Client

DataNode 1
DataNode 2
DataNode 3
. . .
DataNode n

Scale-out Clusters

NetBackup Master Server
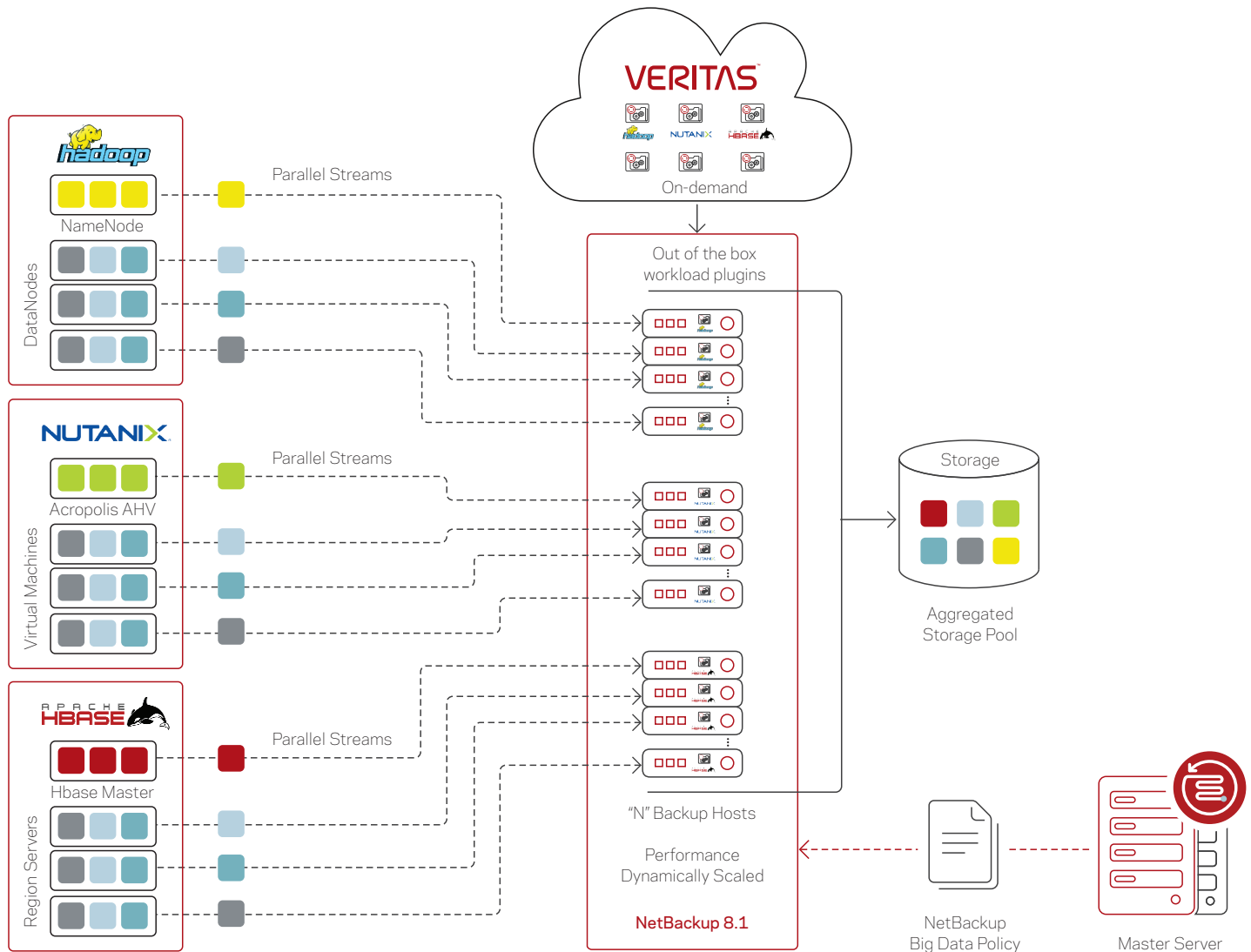
NetBackup Media Server

- Client is installed on NameNode server and consumes resources

- ALL data, including redundant data, is backed up from potentially 100s of DataNodes through the NameNode creating performance bottlenecks

- Client is typically available after long vendor release cycles which can limit the number of supported workloads and delay deployment

FUTURE-PROOF YOUR DATA PROTECTION INVESTMENT AND INFRASTRUCTURE

NetBackup™ Parallel Streaming, available in NetBackup 8.1, delivers a modern, parallel streaming architecture designed to protect the most demanding scale-out, multi-node workloads with on-demand, plugin simplicity. Any database or workload framework needs to be flexible and scalable in order to quickly support new advancements in big data, open source, and hyperconverged architectures.

VERITAS NETBACKUP PARALLEL STREAMING TECHNOLOGY

- Agentless client plugin is installed on dynamically scaled backup hosts
  - Zero impact on Name Node resources
  - "N" number of Backup Hosts can be deployed for optimal streaming performance
  - New workload plugins can be quickly developed and made available by Veritas or 3rd party
  - Plugins for workloads are independent of NetBackup releases and available on-demand
- Automated Discovery optimizes backup performance and storage utilization
  - Identifies which files to be backed up are located on what data nodes or servers
  - Identifies what data has already been backed up to reduce redundant data and backup times

MODERN DATA PROTECTION ARCHITECTURE DELIVERS BROAD NEXT-GENERATION WORKLOAD COVERAGE

The best way to protect next-generation workloads is with next-generation data protection technologies. Whether the modern workloads you need to protect are Big Data, Hyperconverged, or Open Source MySQL/NoSQL databases, NetBackup unified data protection has you covered. Leveraging the proven enterprise scalability and performance of **NetBackup** to hundreds of petabytes, enables you to protect multi-cloud, virtual, physical, and modern workloads, no matter where they reside, all from one console.

NetBackup 8.1 expands heterogeneous high-performance data protection for next-generation workloads:

Big Data and NoSQL	Hyperconverged	Open Source RDBMS
✔ Hadoop	✔ Nutanix	✔ MySQL
✔ HBase	✔ VMware Cloud Foundation	✔ PostgreSQL
✔ MongoDB	✔ DellEMCVxRail	✔ MariaDB
✔ Cassandra		✔ SQLite

✔ Available Now   ✔ Available in coming quarters[3]

Click here to check for latest workload support and documentation.

WHY VERITAS

Veritas is trusted today to provide enterprise data management to organizations of all sizes, including 86 percent of global Fortune 500 companies. Veritas is unique in providing solutions that are software-based, vendor-agnostic, and infrastructure independent, uniquely focused on the value of information rather than the underlying environment.

Organizations today need to manage their data as a critical asset, with solutions that reliably protect the right data, help ensure resiliency and on-demand access from anywhere, and reduce the risks and costs of storing their ever-increasing amounts of data throughout the globe.

The 'always on' nature of digital business also demands the removal of the artificial barriers between these frequently siloed capabilities, to reduce complexity, streamline operations, and benefit from synergies that otherwise are not achievable.

1. DB-Engines Ranking Sep 2017 (https://db-engines.com/en/ranking)
2. Open Source DBMS 2017: Rewriting the Rules given by Merv Adrian and Donald Feinberg (Jan 2017)
3. Forward-looking Statements: Any forward-looking indication of plans for products is preliminary and all future release dates are tentative and are subject to change. Any future release of the product or planned modifications to product capability, functionality, or feature are subject to ongoing evaluation by Veritas, and may or may not be implemented and should not be considered firm commitments by Veritas and should not be relied upon in making purchasing decisions.

ABOUT VERITAS TECHNOLOGIES LLC

Veritas Technologies empowers businesses of all sizes to discover the truth in information—their most important digital asset. Using the Veritas platform, customers can accelerate their digital transformation and solve pressing IT and business challenges including multi-cloud data management, data protection, storage optimization, compliance readiness and workload portability—with no cloud vendor lock-in. Eighty-six percent of Fortune 500 companies rely on Veritas today to reveal data insights that drive competitive advantage. Learn more at www.veritas.com or follow us on Twitter at @veritastechllc.

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